# Exhibit CC. Claiborne Site Wetlands Delineation Report

# Wetland Data Report Claiborne Plantation Site

Iberville Parish, Louisiana

Baton Rouge Area Chamber

564 Laurel Street

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CK Project Number: 12667-1

### **TABLE OF CONTENTS**

| 1.0 | INTR  | NTRODUCTION                                  |   |  |  |  |  |  |
|-----|-------|--|---|--|--|--|--|--|
| 2.0 | PHYS  | SIOGRAPHY, CLIMATE, AND SITE DESCRIPTION     | 2 |  |  |  |  |  |
| 3.0 |       | HODS   |   |  |  |  |  |  |
| 4.0 | RESU  | JLTS   | 3 |  |  |  |  |  |
|     | 4.1   | Hydrology                                    | 3 |  |  |  |  |  |
|     | 4.2   | Vegetation                                   | 3 |  |  |  |  |  |
|     | 4.3   | Soils  | 4 |  |  |  |  |  |
|     | 4.4   | Questions Pertaining to Regulatory Authority | 4 |  |  |  |  |  |
| 5.0 | CON   | CLUSIONS                                     | 5 |  |  |  |  |  |
| 6.0 | LITER | RATURE CITED                                 | 6 |  |  |  |  |  |

#### **LIST OF FIGURES**

| Figure 1 | Vicinity Map                             |
|----------|--|
| Figure 2 | Wetlands Map (Aerial Imagery Background) |
| Figure 3 | Wetlands Map (Black and White)           |
| Figure 4 | Published Soils Map                      |

#### **ATTACHMENTS**

Attachment A Wetland Determination Data Forms and Photographs

#### 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 crusgalli), 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 USACF?
  - 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

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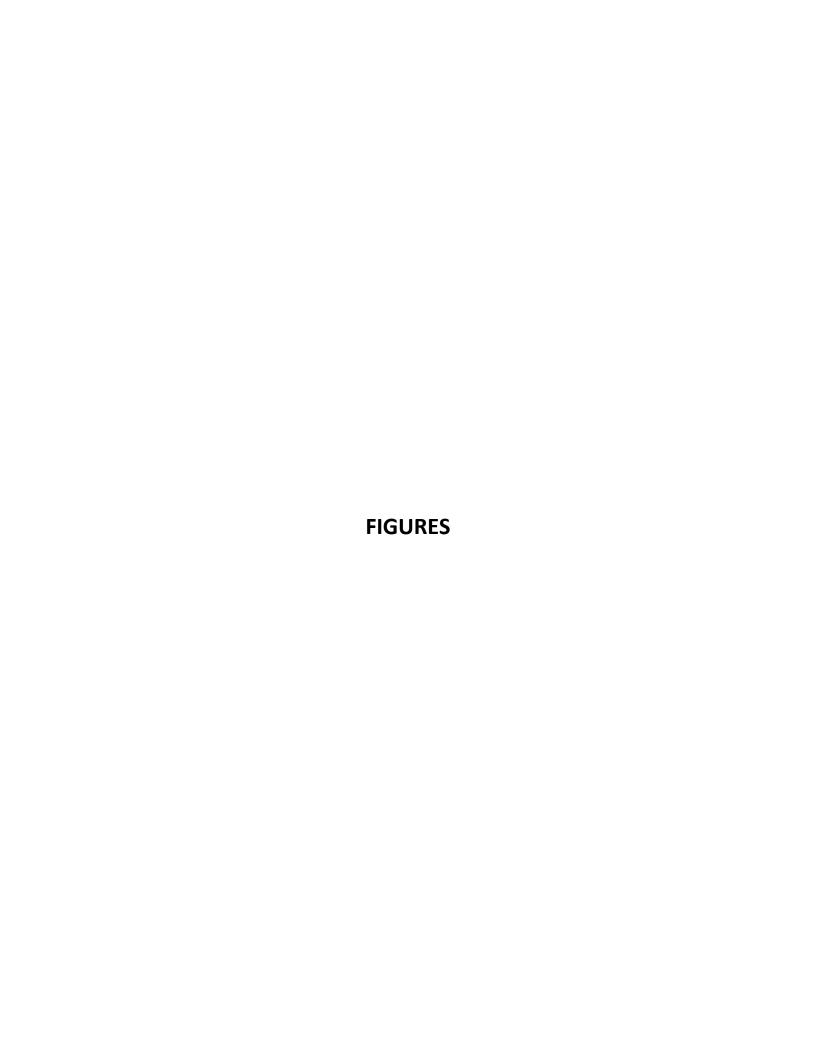
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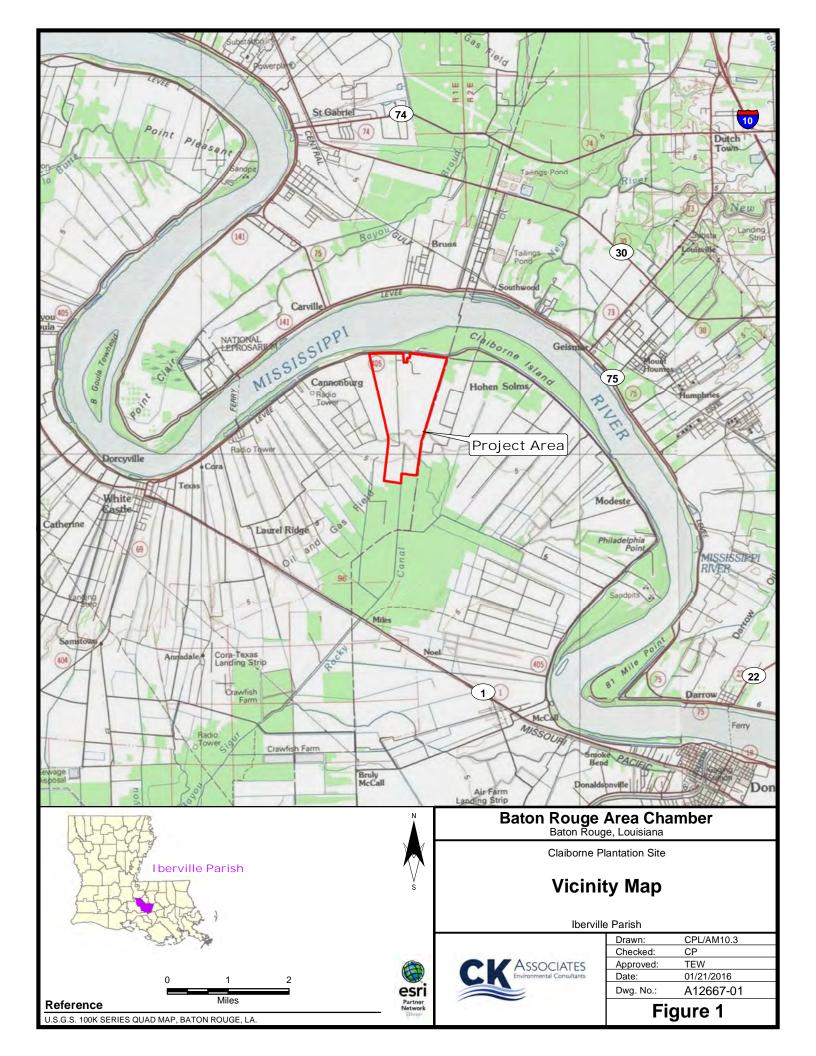
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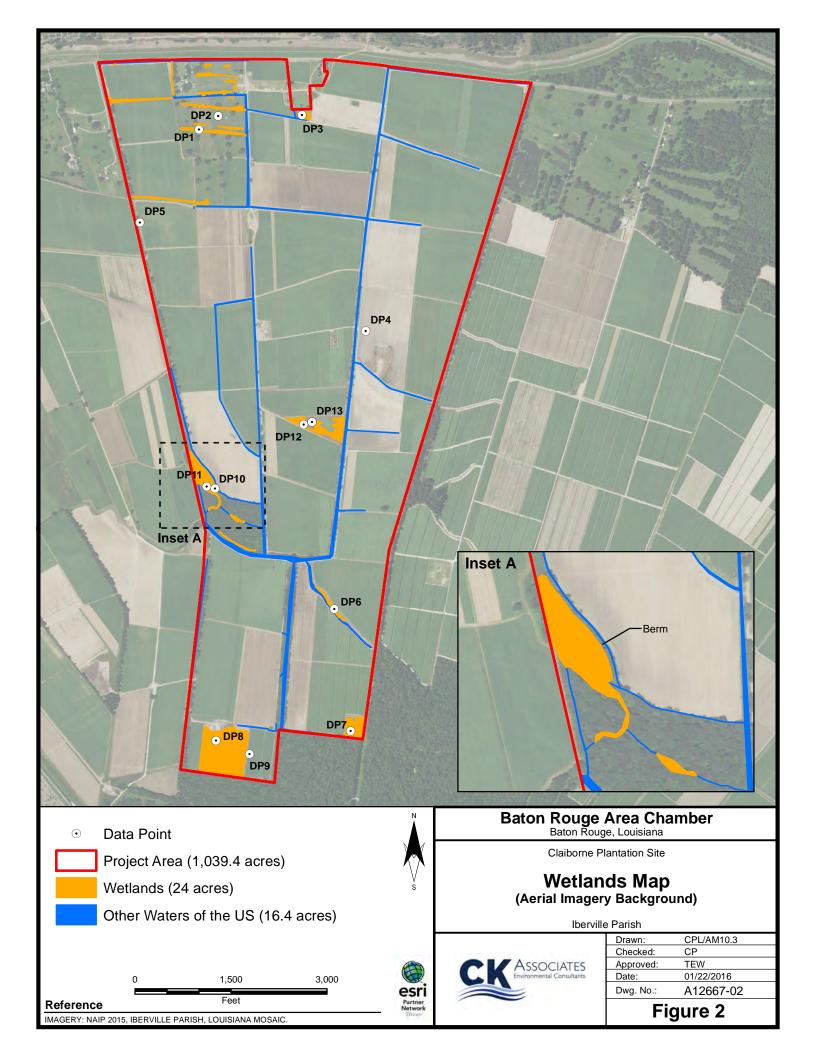
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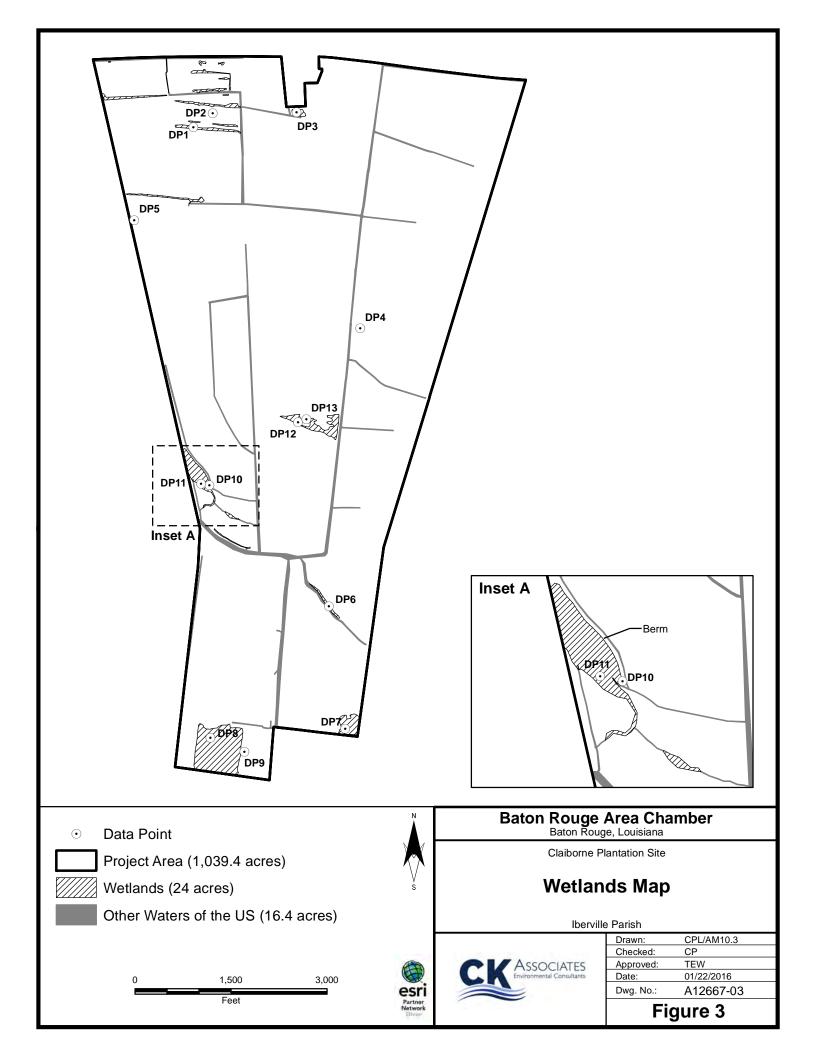
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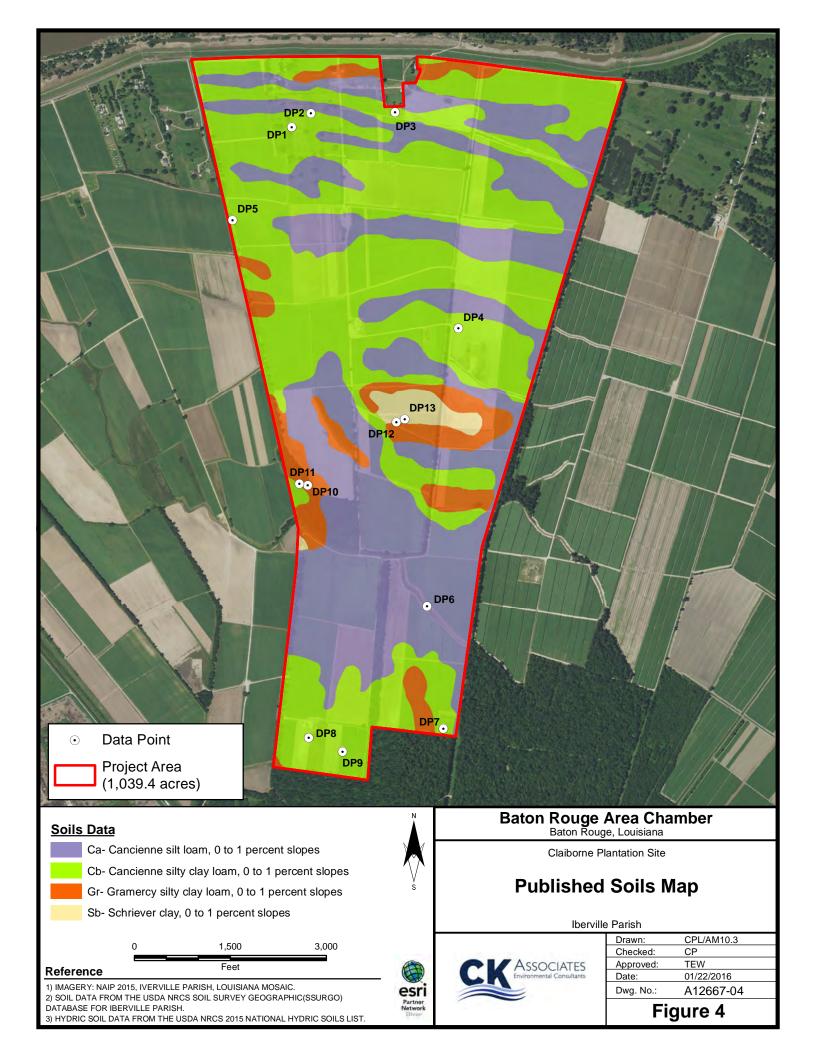
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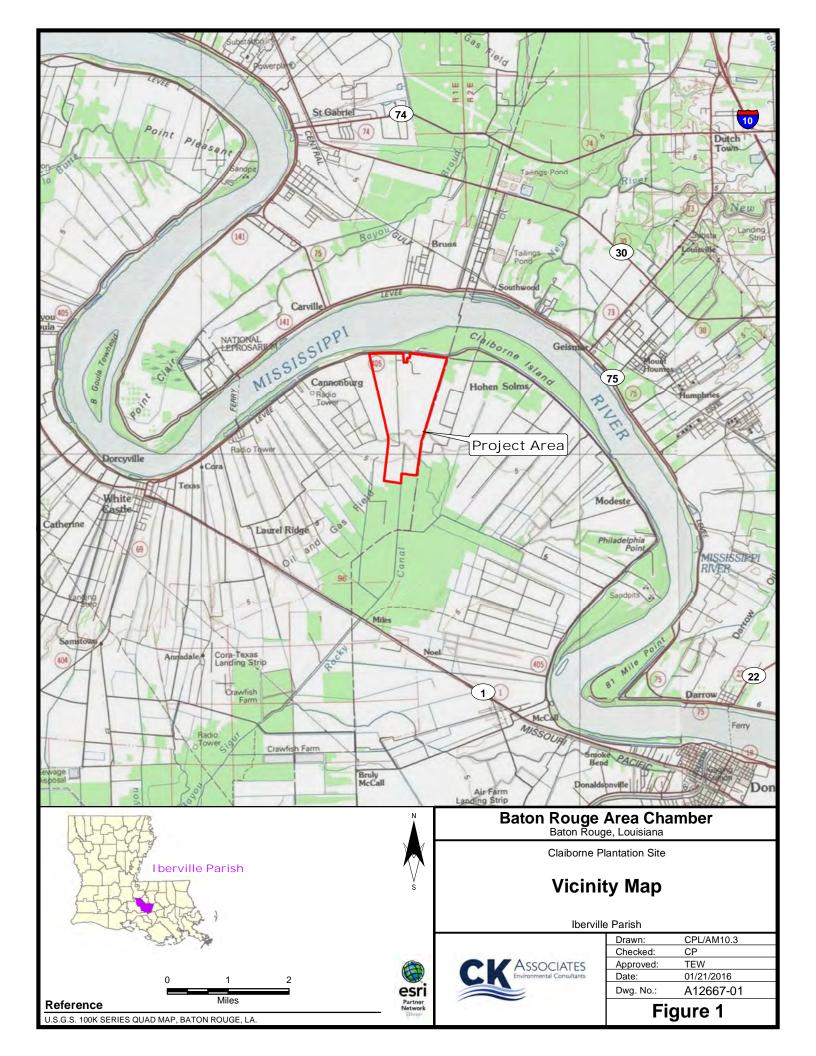


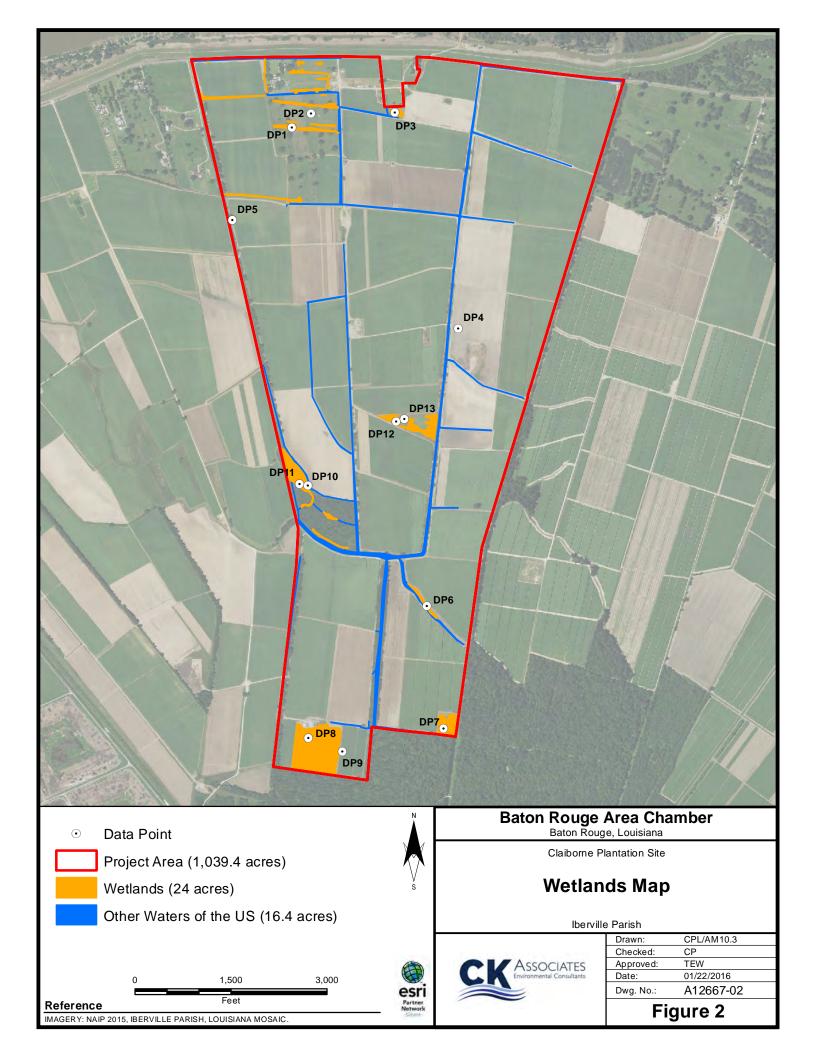


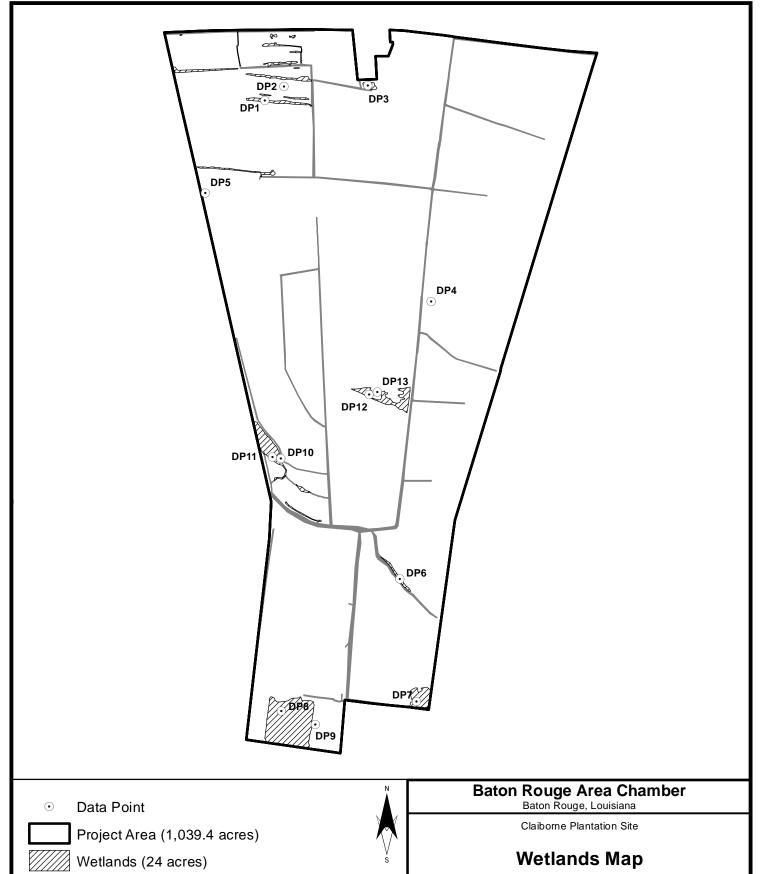


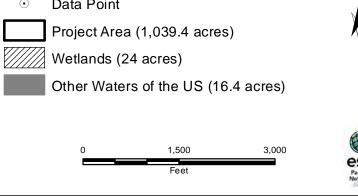












Iberville Parish



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

Figure 3

| Project/Site           | Claiborne Plantation Site     |                             | ty/County: W                | hite Castle/Iberville  | Sampling Date:             | 1/18/2016     |                |  |  |
|------------------------|-------------------------------|-----------------------------|-----------------------------|------------------------|----------------------------|---------------|----------------|--|--|
| Applicant/Owner:       | Baton Rouge Area Chamber (BRA |                             | State:                      | Louisiana              | Sampling Point:            | DP′           | 1              |  |  |
| Investigator(s):       | Christina Perez, K            | ale Wetekamm                | Section                     | , Township, Range:     | Section 15, Town           | ship 10S, Ra  | inge 14E       |  |  |
| Landform (hillslope,   | terrace, etc.):               |                             | Local relief (d             | oncave, convex, no     | ne): concave               | Slope (%):    | 0              |  |  |
| Subregion (LRR or I    | MLRA): LRR O                  | Lat: 30°                    | 12'1.00"N                   | Long:                  | 91°4'44.94"W               | Datum:        | NAD83          |  |  |
| Soil Map Unit Name     | Cb: Cancienne sil             | lty clay loam, 0 to 1       | 1 percent slope             | es NWI Classi          | fication:                  | none          |                |  |  |
| Are climatic/hydrolog  | gic conditions of the site    | typical for this time       | e of the year?              | Yes (If no, ex         | rplain in remarks)         | <del></del>   |                |  |  |
| Are vegetation         | , soil, c                     | or hydrology                | significantly of            | isturbed? Are "no      | ormal circumstances        | s" present?   | Yes            |  |  |
| Are vegetation         | , soil , c                    | or hydrology                | naturally prob              | lematic? (If nee       | ded, explain any an        | swers in rem  | arks.)         |  |  |
| SUMMARY OF F           | INDINGS Attach                | ı site map showi            | ng sampling                 | point locations, to    | ransects, importa          | nt features,  | etc.           |  |  |
| Hydrophytic veg        | etation present?              | Yes                         |                             |                        |                            |               |                |  |  |
| Hydric soil prese      | ent?                          | Yes                         | ls the                      | Sampled Area wit       | thin a Wetland?            | Yes           |                |  |  |
| Indicators of we       | tland hydrology present?      | ? Yes                       |                             | Odinipiou 7 ii od III. |                            | 103           |                |  |  |
|                        |                               | <u> </u>                    |                             |                        |                            |               |                |  |  |
| Remarks:               |                               |                             |                             |                        |                            |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |
| ı                      |                               |                             |                             |                        |                            |               |                |  |  |
| r                      |                               |                             |                             |                        |                            |               |                |  |  |
| HYDROLOGY              |                               |                             |                             |                        |                            |               |                |  |  |
| Wetland Hydrology      | Indicators:                   |                             |                             |                        |                            |               |                |  |  |
|                        | minimum of one is requi       | red; check all that a       | ap                          | Secondary              | Indicators (minimu         | m of two requ | uired <u>)</u> |  |  |
| X Surface Water (A     |                               | Aquatic Faur                |                             |                        | rface Soil Cracks (B       |               | <del></del>    |  |  |
| X High Water Table     |                               |                             | s (B15) <b>(LRR L</b>       |                        | arsely Vegetated Co        |               | e (B8)         |  |  |
| X Saturation (A3)      | · (/ 1_/                      |                             | ılfide Odor (C1)            | <del></del> :          | ainage Patterns (B10       |               | (,             |  |  |
| Water Marks (B1        | ١                             | <del></del> ·               | Dry Season Water Table (C2) |                        |                            |               |                |  |  |
| Sediment Depos         | •                             | Oxidized Rhi<br>Roots (C3)  | zospheres on L              | iving                  | Moss Trim Lines (B16)      |               |                |  |  |
| Drift Deposits (B:     |                               |                             | Reduced Iron (              |                        | ayfish Burrows (C8)        |               |                |  |  |
| Algal Mat or Crus      |                               |                             |                             |                        | turation Visible on A      | erial Imagery | (C9)           |  |  |
| Iron Deposits (B       | ` '                           | Recent Iron I<br>Soils (C6) | Reduction in Til            |                        | X Geomorphic Position (D2) |               |                |  |  |
|                        | e on Aerial Imagery (B7)      | Thin Muck S                 | urface (C7)                 |                        | allow Aquitard (D3)        | ,             |                |  |  |
| Water-Stained Le       |                               | Other (Explain              | <u> </u>                    |                        |                            |               |                |  |  |
|                        | (DO)                          |                             | III III Romana,             |                        | hagnum moss (D8)           | (LRR T. U)    |                |  |  |
|                        |                               |                             |                             |                        | g(20)                      | (             |                |  |  |
| Field Observations     | ·                             |                             |                             |                        |                            |               |                |  |  |
| Surface water prese    |                               | No Depth                    | (inches):                   | 5-10                   |                            |               |                |  |  |
| Water table present    |                               | - <u></u> ·                 | (inches):                   | 0                      | Wetland                    | Yes           |                |  |  |
| Saturation present?    | Yes X                         | - <u></u> ·                 | (inches):                   | 0                      | Hydrology<br>Present?      | 103           |                |  |  |
| (includes capillary fr |                               | . 140 Бериі                 | (11101165).                 |                        | i resent:                  |               |                |  |  |
|                        | lata (stream gauge, mor       | itoring well periol         | photos provio               | us inspections) if a   | vailable:                  |               |                |  |  |
| Describe recorded o    | ata (stream gauge, mor        | illoring well, aerial       | priotos, previo             | us irispections), ii a | valiable.                  |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |
| Remarks:               |                               |                             |                             |                        |                            |               |                |  |  |
| FAC-Neutral Te         | st: 2:0                       |                             |                             |                        |                            |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |
|                        |                               |                             |                             |                        |                            |               |                |  |  |

| <b>EGETATION</b> Use scientific names of plan | nts.          |              |           | Sampling Point:                          | DP1             |
|---|---------------|--------------|-----------|--|-----------------|
|   | Absolute      | Dominant     | Indicator | Dominance Test Worksheet                 |                 |
| <u>Tree Stratum</u> (Plot size: 30 feet )     | % Cover       | Species      | Staus     | Number of Dominant                       |                 |
| (i let dize. 30 leet )                        | 70 COVE       | Opecies      | Olaus     | Species that are OBL,                    |                 |
| 1   |               |              |           | FACW, or FAC:                            | 3 (A)           |
| 2   |               |              |           | Total Number of Dominant                 |                 |
| 3   |               |              |           | Species Across all Strata:               | 3 (B)           |
| 4   | · ———         |              |           | 1 · ·                                    | (-)             |
| 5   | · <del></del> |              |           | Percent of Dominant Species              |                 |
| <u> </u>                                      | ·             |              |           | that are OBL, FACW, or                   | 00 000/ (A/D)   |
| 0   |               |              |           | FAC:10                                   | 00.00% (A/B)    |
|   |               |              |           |  |                 |
| 8   |               |              |           |  |                 |
|   | 0             | = Total Cove | r         |  |                 |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Prevalence Index Worksheet               |                 |
| 30 % of total cover.                          | 20 /0 01 10   | Jiai Covei.  |           |  |                 |
|   |               |              |           | Total % Cover of:                        |                 |
| Sapling/Shrub Stratum (Plot size: 30 feet     | )             |              |           | OBL species x 1 =                        | 0               |
| 1   | <u>-</u>      |              |           | FACW species x 2 =                       | 0               |
| 2   |               |              |           | FAC species x 3 =                        | 0               |
| 3   |               |              |           | FACU species x 4 =                       | 0               |
|   |               |              |           |  |                 |
| 4   |               |              |           | UPL species x 5 =                        | 0 (5)           |
| b   |               |              |           | Column totals(A)                         | (B)             |
| 6   |               |              |           |  |                 |
| 7   |               |              |           | Prevalence Index = B/A =                 |                 |
| 8   |               |              |           |  |                 |
|   | 0             | = Total Cove |           |  |                 |
|   |               |              |           |  |                 |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Hydrophytic Vegetation Indica            | itors:          |
|   |               |              |           | Rapid test for hydrophytic ve            | egetation       |
| Herb stratum (Plot size: 30 feet              | )             |              |           | X Dominance test is >50%                 |                 |
| 1 Ranunculus sardous                          | 35            | Υ            | FAC       | Prevalence index is ≤3.0*                |                 |
|   |               | <u>'</u>     |           | <b></b>                                  |                 |
| 2 Cyperus difformis                           | 25            |              | OBL       | Problematic hydrophytic                  |                 |
| 3 Panicum repens                              | 20            | Y            | FACW      | vegetation* (explain)                    |                 |
| 4   |               |              |           | *Indicators of hydric soil and wetland h | nydrology must  |
| 5   |               |              |           | be present, unless disturbed or pr       | oblematic       |
| 6   |               |              |           | <b>Definitions of Four Vegetation</b>    | Strata          |
| 7   |               |              |           |  |                 |
| 8   | · <del></del> |              |           | Tree- Woody plants, excluding v          |                 |
| <u> </u>                                      |               |              |           | approximately 20 ft (6m) or more         | e in height and |
| 9   |               |              |           | less than 3 in. (7.6 cm) DBH.            |                 |
| 0   |               |              |           |  |                 |
| 1   |               |              |           | Sapling/Shrub - Woody plants,            | excluding vines |
| 2   |               |              |           | less than 3 in. DBH and greater          |                 |
|   | 80            | = Total Cove |           | tall                                     |                 |
| 50% of total cover: 40                        |               | otal cover:  | 16        |  |                 |
| 30 /0 OI (O(a) COVEI. 40                      | U /0 UI ll    |              | 10        | Herb - All herbaceous (non-woo           |                 |
| W. J.     | ,             |              |           | including herbaceous vines, rega         |                 |
| Woody vine stratum (Plot size: 30 feet        | _)            |              |           | and woody plants, except woody           |                 |
| 1   |               |              |           | approximately 3 ft (1 m) in heigh        |                 |
| 2   |               |              |           | Woody vine - All woody vines, r          | egardless of    |
| 3   |               |              |           | height.                                  |                 |
| 4   |               |              |           |  |                 |
| <br>5   |               |              |           |  |                 |
| <u> </u>                                      | · <del></del> |              |           | Hydrophytic                              |                 |
|   | 0             | = Total Cove | r         | Vegetation Ye                            | es              |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Present?                                 |                 |
|   |               |              | -         | <u> </u>                                 |                 |
| Remarks: (If observed, list morphological     | adaptation    | is below).   |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |
|   |               |              |           |  |                 |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)    Depth   Matrix   Redox Features   | SOIL   |                    |   |                      |                         | Sampling Point:                   | DP1                                      |  |  |  |
|--|--|--------------------|---|----------------------|-------------------------|-----------------------------------|--|--|--|--|
| Color (moist)   Color (moist | Profile Description: (Describe to the de         | oth needed to      | docume  | ent the indic        | ator or confirm t       | he absence o                      | f indicators.)                           |  |  |  |
| (Inches) Color (moist) % Color (moist) % Type* Loc** Texture Remarks    Texture   Remarks  | Depth <u>Matrix</u>                              |                    | Redo  | x Features           |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  | Color (moist)      | %   | Type*                | Loc**                   | Texture                           | Remarks                                  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Hydric Soil Indicators:  Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  Indicators for Problematic Hydric Soils: 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic(F18) (outside MLRA 150A,B)  |  |                    |   |                      |                         |                                   |  |  |  |  |
| Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)  Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)  Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic(F18) (outside MLRA 150A,B)   | *Type: $C = Concentration$ , $D = Depletion$ , F | M = Reduced N      | ∕latrix, N  | /IS = Masked         | Sand Grains.            | **Location: P                     | L = Pore Lining, M = Matrix              |  |  |  |
| Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (LRR S, T, U)  Loamy Mucky Mineral (F1)  2 cm Muck (A10) (LRR S)  Reduced Vertic(F18) (outside MLRA 150A,B)  | Hydric Soil Indicators:                          |                    |   |                      |                         | Indicators fo                     | r Problematic Hydric Soils:              |  |  |  |
| Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic(F18) (outside MLRA 150A,B)   | Histisol (A1)                                    | Polyv              | alue Bel  | ow Surface (S        | 88) (LRR S, T, U)       | 1 cm Mud                          | ck (A9) <b>(LRR O)</b>                   |  |  |  |
| <del>-</del>   | Histic Epipedon (A2)                             | Thin [             | Dark Sur  | face (S9) <b>(LR</b> | R S, T, U)              | 2 cm Mud                          |  |  |  |  |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P. S. T)   | Black Histic (A3)                                | Loam               | y Mucky   | y Mineral (F1        | )                       | Reduced                           | Vertic(F18) (outside MLRA 150A,B)        |  |  |  |
|  | Hydrogen Sulfide (A4)                            | Loam               | Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (I   |                      |                         |                                   |  |  |  |  |
| Stratified Layers (A5) Depleted Matrix (F3) Anomolous Bright Loamy Soils (F20) (MLRA   | Stratified Layers (A5)                           | Deple              | eted Mat  | trix (F3)            |                         |                                   | us Bright Loamy Soils (F20) <b>(MLRA</b> |  |  |  |
| Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)  | Organic Bodies (A6) (LRR P, T, U)                | Redo               | x Dark S  | Surface (F6)         |                         | 153B)                             |  |  |  |  |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)   | 5 cm Mucky Mineral (A7) (LRR P,                  | <b>T, U)</b> Deple | eted Dar  | rk Surface (F        | 7)                      | Red Pare                          | ent Material (TF2)                       |  |  |  |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)   | Muck Presence (A8) (LRR U)                       | Redo               | x Depre   | essions (F8)         |                         | Very Sha                          | llow Dark Surface (TF12)                 |  |  |  |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) X Other (explain in remarks)  | 1 cm Muck (A9) (LRR P, T)                        | Marl               | (F10) <b>(L</b>   | RR U)                |                         | X Other (explain in remarks)      |  |  |  |  |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)   | Depleted Below Dark Surface (A11                 | ) Deple            |   |                      |                         |                                   |  |  |  |  |
| Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) *Indicators of hydrophytic vegetation   |  |                    | Mangane   | ese Masses           | (F12) <b>(LRR O, P,</b> | and weltand hydrology must be pre |  |  |  |  |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) and weltand hydrology must be present unless disturbed or problematic   | Coast Prairie Redox (A16) (MLRA                  | <b>150A)</b> Umbr  | ic Surfa  | ce (F13) <b>(LR</b>  | R P, T, U)              |                                   |  |  |  |  |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)  | Sandy Mucky Mineral (S1) (LRR O                  | , <b>S)</b> Delta  | Delta Ochric (F17) (MLRA 151) unless disturbed or problematic |                      |                         |                                   |  |  |  |  |
| Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)  | <del></del> ' ' ' '                              | Redu               | Reduced Vertic (F18) (MLRA 150A, 150B)                        |                      |                         |                                   |  |  |  |  |
| Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 149A)   | Sandy Redox (S5)                                 | Piedn              |   |                      |                         |                                   |  |  |  |  |
| Stripped Matrix (S6)Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)   |  |                    | Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)    |                      |                         |                                   |  |  |  |  |
| Dark Surface (S7) (LRR P, S, T, U)   | Dark Surface (S7) (LRR P, S, T, U)               | 1                  |   |                      |                         |                                   |  |  |  |  |
| Restrictive Layer (if observed):   | Restrictive Laver (if observed):                 |                    |   |                      | Τ                       |                                   |  |  |  |  |
| Type: Hydric Sail  | , ,  |                    |   |                      | Hvdric Soil             | 3.7                               |  |  |  |  |
| Depth (inches): Present? Yes   |  |                    |   | -                    |                         | Yes                               |  |  |  |  |
| Remarks:   | Remarks:   |                    |   |                      |                         |                                   |  |  |  |  |
| No soil profile taken due to inundation. Hydric soils were assumed due to observance of primary wetland hydrology  | No soil profile taken due to inunda              | tion Hydric (      | oils wa   | ere assume           | nd due to obser         | vance of nri                      | mary wetland hydrology                   |  |  |  |
| indicators and prevalence of hydrophytic vegetation.   | II   | •                  |   | cre assume           | d duc to obser          | varice of pri                     | mary wettand rigarology                  |  |  |  |
|  |  | p,                 |   |                      |                         |                                   |  |  |  |  |
|  |  |                    |   |                      |                         |                                   |  |  |  |  |
|  |  |                    |   |                      |                         |                                   |  |  |  |  |
|  |  |                    |   |                      |                         |                                   |  |  |  |  |
|  |  |                    |   |                      |                         |                                   |  |  |  |  |



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

| Project/Site            | Claiborne Plantation S    | ite Cit               | y/County:           | White Castle/ | Iberville     | Sampling Date:                          | 1/18/2         | 016           |
|-------------------------|---------------------------|-----------------------|---------------------|---------------|---------------|---|----------------|---------------|
| Applicant/Owner:        | Baton Rouge Area          | a Chamber (BRAC       | ) State             | e: Louisi     | iana          | Sampling Point:                         | DP2            | 2             |
| Investigator(s):        | Christina Perez, K        | ale Wetekamm          | Section             | on, Township  | o, Range:     | Section 15, Tow                         | nship 10S, Ra  | inge 14E      |
| Landform (hillslope, t  | errace, etc.):            | _                     | Local relief        | (concave, co  | onvex, non    | e): convex                              | Slope (%):     | 0             |
| Subregion (LRR or M     | ILRA): LRR O              | Lat: 30°              | 12'3.01"N           | Long:         | :9            | 91°4'41.38"W                            | Datum:         | NAD83         |
| Soil Map Unit Name_     | Cb: Cancienne sil         | Ity clay loam, 0 to 1 | percent slo         | pes N         | WI Classifi   | ication:                                | none           |               |
| Are climatic/hydrolog   | ic conditions of the site | typical for this time | e of the year       | r? <b>Yes</b> | (If no, exp   | olain in remarks)                       |                |               |
| Are vegetation          | , soil, o                 | or hydrology          | significantly       | y disturbed?  | Are "noi      | rmal circumstance                       | es" present?   | Yes           |
| Are vegetation          |                           | or hydrology          | •                   | roblematic?   | •             | ed, explain any a                       |                |               |
| SUMMARY OF F            | INDINGS Attach            | site map showi        | ng samplir          | ng point loc  | ations, tra   | ansects, import                         | ant features,  | etc.          |
| Hydrophytic vege        | •                         | No                    |                     |               |               |   |                |               |
| Hydric soil prese       |                           | No                    | ls th               | ne Sampled    | Area with     | nin a Wetland?                          | No             |               |
| Indicators of wet       | land hydrology present?   | ? <u>No</u>           |                     |               |               |   |                |               |
| Remarks:                |                           |                       |                     |               |               |   |                |               |
| HYDROLOGY               |                           |                       |                     |               |               |   |                |               |
| Wetland Hydrology       | Indicators:               |                       |                     |               |               |   |                |               |
| Primary Indicators (n   | ninimum of one is requir  | red; check all that a | <u>ap</u>           | <u>s</u>      | Secondary     | Indicators (minim                       | um of two req  | <u>uired)</u> |
| Surface Water (A        | 1)                        | Aquatic Faun          | na (B13)            |               | Sur           | face Soil Cracks (E                     | 36)            |               |
| High Water Table        | (A2)                      | Marl Deposits         | s (B15) <b>(LRF</b> | R U)          | Spa           | rsely Vegetated C                       | oncave Surfac  | e (B8)        |
| Saturation (A3)         |                           | Hydrogen Su           | llfide Odor (C      | 21)           | Dra           | inage Patterns (B1                      | 0)             |               |
| Water Marks (B1)        |                           | Oxidized Rhiz         | zospheres o         | n Living      | Dry           | -Season Water Ta                        | ble (C2)       |               |
| Sediment Deposit        | s (B2)                    | Roots (C3)            | •                   | -             | Mos           | ss Trim Lines (B16                      | )              |               |
| Drift Deposits (B3      | )                         | Presence of I         | Reduced Iron        | n (C4)        | Cra           | yfish Burrows (C8)                      | )              |               |
| Algal Mat or Crus       | t (B4)                    | Recent Iron F         | Reduction in        | Tilled        | Sati          | uration Visible on A                    | Aerial Imagery | (C9)          |
| Iron Deposits (B5)      | )                         | Soils (C6)            |                     |               | Geo           | omorphic Position                       | (D2)           |               |
| Inundation Visible      | on Aerial Imagery (B7)    | Thin Muck Su          | urface (C7)         |               | Sha           | llow Aquitard (D3)                      |                |               |
| Water-Stained Le        | aves (B9)                 | Other (Explai         | in in Remark        | s)            |               | C-Neutral Test (D5)<br>nagnum moss (D8) | ,              |               |
| Field Observations:     |                           | -                     |                     |               |               |   |                |               |
| Surface water preser    | nt? Yes                   | No X Depth            | (inches):           |               |               | Wetler d                                |                |               |
| Water table present?    | Yes                       | No X Depth            | (inches):           |               |               | Wetland<br>Hydrology                    | No             |               |
| Saturation present?     | Yes                       | No X Depth            | (inches):           |               |               | Present?                                |                |               |
| (includes capillary fri | nge)                      | · ——                  |                     |               |               |   |                |               |
| Describe recorded da    | ata (stream gauge, mon    | nitoring well, aerial | photos, prev        | vious inspect | ions), if ava | ailable:                                |                |               |
| Remarks:                |                           |                       |                     |               |               |   |                |               |
|                         |                           |                       |                     |               |               |   |                |               |
|                         |                           |                       |                     |               |               |   |                |               |

| <b>/EGETATION</b> Use scientific names of pla | nts.          |              |           | Sampling Point                         | : DP2             |
|---|---------------|--------------|-----------|--|-------------------|
|   | Absolute      | Dominant     | Indicator | Dominance Test Worksheet               |                   |
| <u>Tree Stratum</u> (Plot size: 30 feet )     | % Cover       | Species      | Staus     | Number of Dominant                     |                   |
| ( 444 4 00 1001 )                             | 70 00101      | Орослос      | Olado     | Species that are OBL,                  |                   |
| 1   |               |              |           | FACW, or FAC:                          | 0 (A)             |
| 2   |               |              |           | Total Number of Dominant               |                   |
| 3   |               |              |           | Species Across all Strata:             | 1 (B)             |
| 4   | _             |              |           | Percent of Dominant Species            |                   |
| 5   |               |              |           | that are OBL, FACW, or                 |                   |
| 6   |               |              |           | FAC:                                   | 0.00% (A/B)       |
| 7   |               |              |           | <u> </u>                               |                   |
| 8   |               |              |           |  |                   |
|   | 0             | = Total Cove |           |  |                   |
| 50% of total cover: 0                         |               | otal cover:  | 0         | Prevalence Index Worksheet             |                   |
| 30 % of total cover.                          | - 20 /6 01 10 | Jiai Covei.  |           |  |                   |
|   |               |              |           | Total % Cover of:                      |                   |
| Sapling/Shrub Stratum (Plot size: 30 feet     | _)            |              |           | OBL speciesx 1 =                       | 0                 |
| 1   | _             |              |           | FACW species x 2 =                     | 0                 |
| 2   |               |              |           | FAC species x 3 =                      | 0                 |
| 3   |               |              |           | FACU species x 4 =                     | 0                 |
| 4   |               |              |           | UPL species x 5 =                      | 0                 |
| 5   | -             |              |           | Column totals (A)                      | 0 (B)             |
| 6   |               |              |           | ,                                      | `                 |
| 7   |               |              |           | Prevalence Index = B/A =               |                   |
| 3   |               |              |           |  |                   |
| ~   | 0             | = Total Cove |           |  |                   |
| 500/ // /                                     |               |              |           |  |                   |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Hydrophytic Vegetation Indica          |                   |
|   |               |              |           | Rapid test for hydrophytic v           | egetation         |
| Herb stratum (Plot size: 30 feet              | )             |              |           | Dominance test is >50%                 |                   |
| 1 Lolium perenne                              | 95            | Υ            | FACU      | Prevalence index is ≤3.0*              |                   |
| 2 Sporobolus indicus                          | 10            | N            | FACU      | Problematic hydrophytic                |                   |
| Ranunculus sardous                            | 2             | N            | FAC       | vegetation* (explain)                  |                   |
| 4   |               |              |           | *Indicators of hydric soil and wetland | hydrology must    |
| 5   |               |              |           | be present, unless disturbed or p      |                   |
| 6   |               |              |           | Definitions of Four Vegetation         | n Strata          |
| 7   |               |              |           |  |                   |
|   | - ——          |              |           | Tree- Woody plants, excluding          |                   |
|   | - ——          |              |           | approximately 20 ft (6m) or mor        | e in height and   |
| 9   |               |              |           | less than 3 in. (7.6 cm) DBH.          |                   |
|   | - ——          |              |           |  |                   |
|   | . <u></u>     |              |           | Sapling/Shrub - Woody plants,          |                   |
|   |               |              |           | less than 3 in. DBH and greater        | than 3.26 ft (1r  |
|   |               | = Total Cove |           | tall                                   |                   |
| 50% of total cover: 53.5                      | 20% of to     | otal cover:  | 21.4      | Herb - All herbaceous (non-woo         | ody) plants,      |
|   |               |              |           | including herbaceous vines, reg        |                   |
| Noody vine stratum (Plot size: 30 feet        | )             |              |           | and woody plants, except wood          | y vines, less tha |
| 1   | _             |              |           | approximately 3 ft (1 m) in heigh      |                   |
| 2   |               |              | _         | Woody vine - All woody vines,          | regardless of     |
| 3   |               |              |           | height.                                |                   |
| 4   | · ·           |              |           |  |                   |
| 5   |               |              |           | Hydrophytic                            |                   |
| •   | 0             | = Total Cove |           |  | lo                |
| 500/ -/                                       |               |              |           | Present?                               | 10                |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | i resent:                              |                   |
| Remarks: (If observed, list morphological     | adaptation    | s below).    |           |  |                   |
| , ετε τε, ετιπειμικέσσου                      | 1             | , .          |           |  |                   |
|   |               |              |           |  |                   |
|   |               |              |           |  |                   |
|   |               |              |           |  |                   |
|   |               |              |           |  |                   |
|   |               |              |           |  |                   |
|   |               |              |           |  |                   |

| SOIL               |                                       |            |             |   |                |                        | S                   | Sampling Point:                            | DP2                               |  |  |
|--------------------|---------------------------------------|------------|-------------|---|----------------|------------------------|---------------------|--|-----------------------------------|--|--|
| Profile Des        | cription: (Describe                   | e to the c | lepth neede | ed to d   | locume         | ent the indic          | ator or confirm tl  | he absence o                               | f indicators.)                    |  |  |
| Depth Matrix Redox |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
| (Inches)           | Color (moist)                         | %          | Color (mo   |   |                |                        |                     | Texture                                    | Remarks                           |  |  |
| 0-10               | 10YR 4/2                              | 80         |             |   |                |                        |                     | silty clay                                 |                                   |  |  |
|                    | 10YR 5/3                              | 20         |             |   |                |                        |                     | silty clay                                 |                                   |  |  |
| 10-16              | 10YR 5/2                              | 60         | 10YR 5      | 5/8   | 1              | С                      | M                   | clay                                       |                                   |  |  |
|                    | 10YR 5/3                              | 39         |             |   |                |                        |                     | clay                                       |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    | Concentration, D = D                  | Depletion  | , RM = Redu | iced M  | 1atrix, N      | IS = Masked            | Sand Grains.        |  | PL = Pore Lining, M = Matrix      |  |  |
| Hydric Sc          | oil Indicators:                       |            |             |   |                |                        |                     | Indicators fo                              | r Problematic Hydric Soils:       |  |  |
| Hist               | isol (A1)                             |            |             | Polyva  | alue Bel       | ow Surface (S          | 88) (LRR S, T, U)   | 1 cm Mu                                    | ck (A9) <b>(LRR O)</b>            |  |  |
|                    | ic Epipedon (A2)                      |            |             | Thin D  | ark Sur        | face (S9) (LR          | R S, T, U)          |  | ck (A10) <b>(LRR S)</b>           |  |  |
|                    | ck Histic (A3)                        |            |             |   |                | y Mineral (F1          |                     |  | Vertic(F18) (outside MLRA 150A,B) |  |  |
|                    | rogen Sulfide (A4)                    |            |             |   | -              | d Matrix (F2)          |                     | Piedmont Floodplain Soils (F19) (LRR P, S, |                                   |  |  |
|                    | tified Layers (A5)                    |            |             | -   |                | trix (F3)              |                     |  | us Bright Loamy Soils (F20) (MLRA |  |  |
|                    | Organic Bodies (A6) (LRR P, T, U)     |            |             |   |                | Surface (F6)           |                     | 153B)                                      |                                   |  |  |
|                    | 5 cm Mucky Mineral (A7) (LRR P, T, U) |            |             |   |                | k Surface (F           | 7)                  |  | ent Material (TF2)                |  |  |
|                    | ck Presence (A8) (LI                  | -          |             |   | -              | essions (F8)           |                     | Very Shallow Dark Surface (TF12)           |                                   |  |  |
|                    | n Muck (A9) (LRR P                    | -          |             |   | F10) <b>(L</b> | -                      | DA 454)             | Other (explain in remarks)                 |                                   |  |  |
|                    | eleted Below Dark St                  | -          | ′ —         |   |                | ric (F11) <b>(ML</b> I | -                   | r)   |                                   |  |  |
|                    | ck Dark Surface (A12                  | •          |             | Iron-Manganese Masses (F12) (LRR O, P, 1  |                |                        |                     | indicators of rigurophytic vegetati        |                                   |  |  |
|                    | st Prairie Redox (A1                  |            |             | Umbric Surface (F13) (LRR P, T, U) and weltand hydrology mu Delta Ochric (F17) (MLRA 151) unless disturbed or problem |                |                        |                     |  | unless disturbed or problematic   |  |  |
|                    | dy Mucky Mineral (S                   |            | · · ·       |   |                |                        | -                   |  |                                   |  |  |
|                    | dy Gleyed Matrix (S<br>dy Redox (S5)  | 4)         |             |   |                |                        | .RA 150A, 150B)     | 24)  |                                   |  |  |
|                    | oped Matrix (S6)                      |            |             | Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b> Anomolous Bright Loamy Soils (F20) <b>(MLRA 149A, 153C, 153D)</b>  |                |                        |                     |  |                                   |  |  |
|                    | k Surface (S7) <b>(LRR</b>            | PST        |             | AHOH  | Olous L        | ongin Loanly           | 30115 (1 20) (WILK) | 143A, 133C                                 | , 1330)                           |  |  |
|                    | (O) (E)                               |            |             |   |                |                        |                     |  |                                   |  |  |
| Restrictive        | Layer (if observed                    | ):         |             |   |                |                        |                     |  |                                   |  |  |
| Туре:              |                                       |            |             |   |                | _                      | Hydric Soil         | No   |                                   |  |  |
|                    | Depth (inches)                        | ):         |             |   |                | -                      | Present?            |  |                                   |  |  |
| Remarks:           |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
| T to mainter       |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |
|                    |                                       |            |             |   |                |                        |                     |  |                                   |  |  |



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

| Project/Site                                | Claiborne Plantation Si               | ite Cit                       | y/County: \_\  | White Castle/I | berville    | Sampling Date:                          | 1/19/2        | 016      |
|---|---------------------------------------|-------------------------------|----------------|----------------|-------------|---|---------------|----------|
| Applicant/Owner:                            | Baton Rouge Area                      | a Chamber (BRAC)              | ) State        | : Louisia      | ana         | Sampling Point:                         | DP3           | 3        |
| Investigator(s):                            | Christina Perez, K                    | ale Wetekamm                  | Section        | n, Township    | , Range:    | Section 15, Towr                        | nship 10S, Ra | ange 14E |
| Landform (hillslope, t                      | errace, etc.):                        |                               | Local relief   | (concave, co   | nvex, non   | ne): none                               | Slope (%):    | 0        |
| Subregion (LRR or M                         | ILRA): LRR O                          | Lat: 30°                      | 12'3.00"N      | Long:          |             | 91°4'26.49"W                            | Datum:        | NAD83    |
| Soil Map Unit Name_                         | Cb: Cancienne sil                     | ty clay loam, 0 to 1          | percent slop   | pes N          | NI Classif  | fication:                               | none          |          |
| Are climatic/hydrolog                       | ic conditions of the site             | typical for this time         | e of the year  | ? Yes          | (If no, ex  | plain in remarks)                       |               |          |
| Are vegetation                              | , soil, o                             | r hydrology                   | significantly  | disturbed?     | Are "no     | rmal circumstance                       | s" present?   | Yes      |
| Are vegetation                              | , soil, o                             | r hydrology                   | naturally pro  | oblematic?     | (If need    | ded, explain any ar                     | nswers in rem | narks.)  |
| SUMMARY OF F                                | INDINGS Attach                        | site map showi                | ng samplin     | g point loca   | ations, tr  | ansects, importa                        | ant features, | , etc.   |
| Hydrophytic vege                            | etation present?                      | Yes                           |                |                |             |   |               |          |
| Hydric soil prese                           | nt?                                   | Yes                           | ls th          | e Sampled      | Area wit    | hin a Wetland?                          | Yes           |          |
| Indicators of wet                           | land hydrology present?               | Yes                           | 10             |                |             |   | 100           |          |
|   |                                       |                               |                |                |             |   |               |          |
| Remarks:                                    |                                       |                               |                |                |             |   |               |          |
| İ   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
| HYDROLOGY                                   |                                       |                               |                |                |             |   |               |          |
| Wetland Hydrology                           | Indicators:                           |                               |                |                |             |   |               |          |
| , ,,  | ninimum of one is requir              | ed; check all that a          | ар             | S              | econdary    | Indicators (minimu                      | um of two rea | uired)   |
| X Surface Water (A                          |                                       | Aquatic Faun                  |                | <u>-</u>       | <u>-</u>    | rface Soil Cracks (B                    |               | <u>,</u> |
| High Water Table                            | •                                     | Marl Deposits                 | , ,            | U)             |             | arsely Vegetated Co                     |               | e (B8)   |
| X Saturation (A3)                           | (NZ)                                  | Hydrogen Su                   |                | -              |             | ainage Patterns (B1                     |               | ic (B0)  |
| Water Marks (B1)                            |                                       |                               |                |                |             | r-Season Water Tal                      |               |          |
| Sediment Deposit                            |                                       | χ Oxidized Rhiz<br>Roots (C3) | zospheres on   | Living         |             | ss Trim Lines (B16)                     |               |          |
| Drift Deposits (B3                          |                                       |                               | Reduced Iron   | (C4)           |             | ayfish Burrows (C8)                     |               |          |
| Algal Mat or Crus                           |                                       | <del></del>                   |                |                |             | turation Visible on A                   |               | (C0)     |
| Iron Deposits (B5)                          |                                       | Recent Iron F<br>Soils (C6)   | Reduction in 1 | Γilled         |             | omorphic Position (                     | • •           | (09)     |
|   | on Aerial Imagery (B7)                | Thin Muck Su                  | urfaco (C7)    |                |             | allow Aquitard (D3)                     | ,             |          |
|   |                                       |                               | ` '            | ۸              |             | . ,                                     |               |          |
| Water-Stained Le                            | aves (b9)                             | Other (Explai                 | in in Remarks  | o)             |             | C-Neutral Test (D5)<br>nagnum moss (D8) |               |          |
|   |                                       |                               |                |                | <u> </u>    | lagrium moss (Do)                       | (LKK 1, 0)    |          |
| Field Observations:                         |                                       |                               |                |                |             |   |               |          |
|   | .,                                    | No Depth                      | (inches):      | 2-5            |             |   |               |          |
| Surface water present                       | ··· · · · · · · · · · · · · · · · · · |                               | ` <u> </u>     | 2-3            |             | Wetland                                 | Yes           |          |
| Water table present?                        |                                       | ·                             | (inches):      | 0              |             | Hydrology                               | 163           |          |
| Saturation present? (includes capillary fri | Yes X                                 | No Depth                      | (inches):      | 0              |             | Present?                                |               |          |
|   |                                       |                               |                |                |             |   |               |          |
| Describe recorded da                        | ata (stream gauge, mon                | itoring well, aerial          | photos, prev   | ious inspecti  | ons), if av | ailable:                                |               |          |
|   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
| Remarks:                                    |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |
|   |                                       |                               |                |                |             |   |               |          |

| <b>/EGETATION</b> Use scientific names of pla | nts.                                    |                             |           | Sampling Point: DP3                                   |
|---|---|-----------------------------|-----------|---|
|   | Absolute                                | Dominant                    | Indicator | Dominance Test Worksheet                              |
| <u>Tree Stratum</u> (Plot size: 30 feet )     | % Cover                                 | Species                     | Staus     | Number of Dominant                                    |
|   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                             | 0.13.3.0  | Species that are OBL,                                 |
| 1   |   |                             |           | FACW, or FAC: 2 (A)                                   |
| 2   |   |                             |           | Total Number of Dominant                              |
| 3   |   |                             |           | Species Across all Strata: 2 (B)                      |
| 4   |   |                             |           | Percent of Dominant Species                           |
| 5   |   |                             |           | that are OBL, FACW, or                                |
| 6   |   |                             |           | FAC: 100.00% (A/B)                                    |
| 7   |   |                             |           |   |
| 8   |   |                             |           |   |
|   | 0                                       | =Total Cove                 | er        |   |
| 50% of total cover: 0                         | 20% of to                               | otal cover:                 | 0         | Prevalence Index Worksheet                            |
|   |   | =                           |           | Total % Cover of:                                     |
| Capling/Chrush Ctratum (Diet size) 20 feet    | `                                       |                             |           |   |
| Sapling/Shrub Stratum (Plot size: 30 feet     | _)                                      |                             |           | OBL species x 1 = 0                                   |
| 1   |   |                             |           | FACW species x 2 = 0                                  |
| 2   |   |                             |           | FAC species x 3 = 0                                   |
| 3   |   |                             |           | FACU species x 4 = 0                                  |
| 4   |   |                             |           | UPL species x 5 = 0                                   |
| 5   |   |                             |           | Column totals (A) 0 (B)                               |
| 6   |   |                             |           | .   |
| 7   |   |                             |           | Prevalence Index = B/A =                              |
| 8   |   |                             |           |   |
|   | 0                                       | = Total Cove                | r         |   |
| 50% of total cover: 0                         | 20% of to                               | otal cover:                 | 0         | Hydrophytic Vegetation Indicators:                    |
| 0070 01 10101 00001.                          |   |                             |           | Rapid test for hydrophytic vegetation                 |
| Had state a (Distain a 20 feet                | `                                       |                             |           |   |
| Herb stratum (Plot size: 30 feet              | _)                                      | V                           | EA 0\A/   | X Dominance test is >50%                              |
| 1 Echinochloa crus-galli                      | 50                                      | <u>Y</u>                    | FACW      | Prevalence index is ≤3.0*                             |
| 2 Panicum virgatum                            | 50                                      | <u> </u>                    | FAC       | Problematic hydrophytic                               |
| 3 Ranunculus sardous                          | 10                                      | <u>N</u>                    | FAC       | vegetation* (explain)                                 |
| 4 Persicaria pensylvanica                     | 5                                       | N                           | FACW      | *Indicators of hydric soil and wetland hydrology must |
| 5 Rumex crispus                               | 5                                       | N                           | FAC       | be present, unless disturbed or problematic           |
| 6 Setaria parviflora                          | 2                                       | N                           | FACW      | Definitions of Four Vegetation Strata                 |
| 7 Caperonia palustris                         | 1                                       | N                           | FACW      | Tree- Woody plants, excluding woody vines,            |
| 8   |   |                             | -         | approximately 20 ft (6m) or more in height and        |
| 9   |   |                             |           | less than 3 in. (7.6 cm) DBH.                         |
| 10  |   |                             |           | ( 1 1 ,   |
| 1   |   |                             |           | Continue/Charak Manda alondo accidente accidente      |
| 2   |   |                             |           | Sapling/Shrub - Woody plants, excluding vines         |
|   | 123                                     | = Total Cove                |           | less than 3 in. DBH and greater than 3.26 ft (1m tall |
| 50% of total cover: 61.5                      |   | = rotal cove<br>otal cover: | 24.6      |   |
| 50% Of total cover. 61.5                      | ∠U 70 UI ((                             | nai covei.                  | 24.0      | Herb - All herbaceous (non-woody) plants,             |
| Woods vine stratum (Dist size) 20 feet        | `                                       |                             |           | including herbaceous vines, regardless of size,       |
| Woody vine stratum (Plot size: 30 feet        | _)                                      |                             |           | and woody plants, except woody vines, less tha        |
| 1   |   |                             |           | approximately 3 ft (1 m) in height.                   |
| 2   |   |                             |           | Woody vine - All woody vines, regardless of height.   |
| 3   |   |                             |           | nieigiit.   |
| 4   |   |                             |           | .   |
| 5   |   |                             |           | Hydrophytic   |
|   | 0                                       | = Total Cove                | r         | Vegetation Yes  |
| 50% of total cover: 0                         |   | otal cover:                 | 0         | Present?  |
|   |   |                             | U         |   |
| Remarks: (If observed, list morphological     | adaptation                              | s below).                   |           |   |
|   | · ·                                     | ,                           |           |   |
|   |   |                             |           |   |
|   |   |                             |           |   |
|   |   |                             |           |   |
|   |   |                             |           |   |
|   |   |                             |           |   |

| SOIL         |                                       |                    |                         |   |   | S                                      | Sampling Point:                   | DP3                                      |  |
|--------------|---------------------------------------|--------------------|-------------------------|---|---|--|-----------------------------------|--|--|
| Profile Des  | cription: (Describe                   | e to the c         | lepth needed            | to docume   | ent the indic                                       | ator or confirm t                      | he absence of                     | f indicators.)                           |  |
| Depth        | Matrix                                |                    |                         | Redo  | x Features  |  |                                   |  |  |
| (Inches)     | Color (moist)                         | %                  | Color (mois             |   | Type*   | Loc**                                  | Texture                           | Remarks                                  |  |
| 0-4          | 7.5YR 4/1                             | 100                |                         |   |   |  | silty clay                        |  |  |
| 4-16         | 7.5YR 4/1                             | 80                 | 7.5YR 4/4               | 15  | С   | М                                      | clay                              |  |  |
|              |                                       |                    | 7.5YR 5/6               | 5 5   | С   | PL                                     | clay                              |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
| *Type: C = 0 | Concentration, D = [                  | Depletion          | , RM = Reduc            | ed Matrix, N  | /IS = Masked  | Sand Grains.                           | **Location: P                     | L = Pore Lining, M = Matrix              |  |
| Hydric So    | oil Indicators:                       |                    |                         |   |   |  | Indicators fo                     | r Problematic Hydric Soils:              |  |
| Hist         | isol (A1)                             |                    | P                       | olyvalue Bel  | ow Surface (S                                       | 88) (LRR S, T, U)                      | 1 cm Muc                          | ck (A9) <b>(LRR O)</b>                   |  |
| Hist         | ic Epipedon (A2)                      |                    | Ti                      | nin Dark Sur  | face (S9) <b>(LR</b>                                | R S, T, U)                             | 2 cm Muc                          | ck (A10) <b>(LRR S)</b>                  |  |
| Blac         | ck Histic (A3)                        |                    | Lo                      | oamy Muck   | y Mineral (F1                                       | )                                      | Reduced '                         | Vertic(F18) (outside MLRA 150A,B)        |  |
| Hyd          | rogen Sulfide (A4)                    |                    | Lo                      | oamy Gleye  | ed Matrix (F2)                                      | Piedmont Floodplain Soils (F19) (LRR P |                                   |  |  |
| Stra         | tified Layers (A5)                    |                    | <u>X</u> D              | epleted Ma  | trix (F3)   |  |                                   | us Bright Loamy Soils (F20) <b>(MLRA</b> |  |
| Orga         | anic Bodies (A6) <b>(Li</b>           | RR P, T, I         | <b>U)</b> R             | edox Dark   | Surface (F6)  |  | 153B)                             |  |  |
| 5 cn         | 5 cm Mucky Mineral (A7) (LRR P, T, U) |                    |                         |   | rk Surface (F                                       | 7)                                     | Red Pare                          | nt Material (TF2)                        |  |
| Muc          | ck Presence (A8) <b>(L</b> l          | RR U)              | R                       | edox Depre  | x Depressions (F8) Very Shallow Dark Surface (TF12) |  |                                   | llow Dark Surface (TF12)                 |  |
| 1 cn         | n Muck (A9) (LRR P                    | P, T)              | M                       | arl (F10) <b>(L</b>   | .RR U)  |  | Other (explain in remarks)        |  |  |
| Dep          | leted Below Dark S                    | urface (A          | 11)D                    | epleted Och   | ric (F11) <b>(ML</b>                                | RA 151)                                |                                   |  |  |
|              | ck Dark Surface (A1                   | ,                  |                         | Iron-Manganese Masses (F12) (LRR O, P, T)                     |   |  |                                   | *Indicators of hydrophytic vegetation    |  |
| Coa          | st Prairie Redox (A                   | 16) ( <b>MLR</b> . | <b>A 150A)</b> ∪        | mbric Surfa   | ice (F13) <b>(LR</b>                                | R P, T, U)                             | and weltand hydrology must be pre |  |  |
| San          | dy Mucky Mineral (S                   | S1) <b>(LRR</b>    | <b>o</b> , <b>s</b> ) D | Delta Ochric (F17) (MLRA 151) unless disturbed or problematic |   |  |                                   |  |  |
| San          | dy Gleyed Matrix (S                   | 54)                | R                       | educed Ver  | rtic (F18) <b>(ML</b>                               | RA 150A, 150B)                         |                                   |  |  |
| San          | dy Redox (S5)                         |                    | P                       | edmont Floodplain Soils (F19) (MLRA 149A)                     |   |  |                                   |  |  |
|              | oped Matrix (S6)                      |                    |                         | nomolous E  | Bright Loamy  | Soils (F20) (MLR                       | A 149A, 153C,                     | , 153D)                                  |  |
| Darl         | k Surface (S7) <b>(LRR</b>            | R P, S, T,         | U)                      |   |   |  |                                   |  |  |
| Restrictive  | Layer (if observed                    | ):                 |                         |   |   |  |                                   |  |  |
| Туре:        | Depth (inches                         | ):                 |                         |   | -   | Hydric Soil<br>Present?                | Yes                               |  |  |
|              | ., (                                  | ,                  |                         |   | -   |  |                                   |  |  |
| Remarks:     |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |
|              |                                       |                    |                         |   |   |  |                                   |  |  |



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

| Project/Site                              | Claiborne Plantation S   | ite City                    | y/County: White Castle/Iberville         |                        | Sampling Date:                | Sampling Date: 1/20/2016              |        |  |
|---|--------------------------|-----------------------------|--|------------------------|-------------------------------|---------------------------------------|--------|--|
| Applicant/Owner:                          | Baton Rouge Area         | a Chamber (BRAC)            | State: Louisiana                         |                        | Sampling Point:               | DP4                                   |        |  |
| Investigator(s):                          | Christina Perez, K       | ale Wetekamm                | Section                                  | on, Township, Range    | : Section 15, Town            | ship 10S, Ran                         | ge 14E |  |
| Landform (hillslope, te                   | errace, etc.):           |                             | Local relief                             | (concave, convex, ne   | one): none                    | Slope (%):                            | 0      |  |
| Subregion (LRR or M                       | LRA): LRR O              | Lat: 30°1                   | 1'29.42"N                                | Long:                  | 91°4'15.81"W                  | Datum: N                              | NAD83  |  |
| Soil Map Unit Name_                       | Cb: Cancienne sil        | ty clay loam, 0 to 1        | percent slo                              | pes NWI Clas           | sification:                   | none                                  |        |  |
| Are climatic/hydrologi                    | c conditions of the site | typical for this time       | of the year                              | ? Yes (If no, e        | explain in remarks)           |                                       |        |  |
| Are vegetation                            | , soil, o                | r hydrology                 | significantly                            | disturbed? Are "r      | normal circumstances          | s" present? Y                         | 'es    |  |
| Are vegetation                            | , soil , o               | r hydrology                 | naturally pr                             | oblematic? (If ne      | eded, explain any an          | swers in rema                         | rks.)  |  |
| SUMMARY OF FI                             | NDINGS Attach            | site map showir             | ng samplin                               | g point locations,     | transects, importa            | nt features, e                        | etc.   |  |
| Hydrophytic vege                          | tation present?          | No                          |  |                        |                               |                                       | _      |  |
| Hydric soil preser                        | ıt?                      | No                          | Is the Sampled Area within a Wetland? No |                        |                               |                                       |        |  |
| Indicators of wetla                       | and hydrology present?   | No                          | is the sampled Area within a wettaild?   |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
| Remarks:                                  |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       | ļ      |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
| HYDROLOGY                                 |                          |                             |  |                        |                               |                                       |        |  |
| Wetland Hydrology I                       | ndicators:               |                             |  |                        |                               |                                       | -      |  |
| Primary Indicators (m                     | inimum of one is requir  | ed; check all that a        | <u>ap</u>                                | Seconda                | y Indicators (minimu          | m of two requi                        | red)   |  |
| Surface Water (A1)                        |                          | Aquatic Faun                | a (B13) Sui                              |                        | rface Soil Cracks (B6)        |                                       |        |  |
| High Water Table (A2)                     |                          | Marl Deposits               |  |                        |                               | arsely Vegetated Concave Surface (B8) |        |  |
| Saturation (A3)                           |                          | Hydrogen Su                 | Hydrogen Sulfide Odor (C1)               |                        | Drainage Patterns (B10)       |                                       |        |  |
| Water Marks (B1)                          |                          | <del></del> ` ` `           |  |                        | ry-Season Water Tabl          |                                       |        |  |
| Sediment Deposits                         | s (B2)                   | Oxidized Rhiz<br>Roots (C3) | 20sprieres or                            | Living                 | Moss Trim Lines (B16)         |                                       |        |  |
| Drift Deposits (B3)                       |                          | Presence of F               | Reduced Iron                             |                        | ayfish Burrows (C8)           |                                       |        |  |
| Algal Mat or Crust                        |                          |                             |  | · / —                  | aturation Visible on A        | erial Imagery (C                      | 29)    |  |
| Iron Deposits (B5)                        |                          | Soils (C6)                  | Leduction in Tilled                      |                        | eomorphic Position (D2)       |                                       |        |  |
| Inundation Visible on Aerial Imagery (B7) |                          | Thin Muck Su                | ırface (C7)                              |                        | hallow Aquitard (D3)          |                                       |        |  |
| Water-Stained Leaves (B9)                 |                          | Other (Explain              | ` '                                      |                        | AC-Neutral Test (D5)          | , , ,                                 |        |  |
|   | (20)                     |                             |  | <i></i>                | Sphagnum moss (D8) (LRR T, U) |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
| Field Observations:                       |                          |                             |  |                        |                               |                                       |        |  |
| Surface water presen                      | t? Yes                   | No X Depth                  | (inches):                                |                        |                               |                                       |        |  |
| Water table present?                      | Yes                      |                             | (inches):                                |                        | Wetland<br>Hydrology          | No                                    |        |  |
| Saturation present?                       | Yes                      |                             | (inches):                                |                        | Present?                      |                                       |        |  |
| (includes capillary frin                  | ge)                      | <del></del> ·               | · /                                      |                        |                               |                                       |        |  |
| Describe recorded da                      | ta (stream gauge, mon    | itoring well, aerial r      | ohotos, prev                             | rious inspections), if | available:                    |                                       |        |  |
|   | <u> </u>                 |                             | , , , , ,                                |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
| Remarks:                                  |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |
|   |                          |                             |  |                        |                               |                                       |        |  |

| EGETATION Use scientific names of plan                           | ts.   |                     |                    | Sampling Point:  | DP4                    |  |  |
|--|---|---------------------|--------------------|--|------------------------|--|--|
| Tree Stratum (Plot size: 30 feet )                               | Absolute<br>% Cover   | Dominant<br>Species | Indicator<br>Staus | Dominance Test Worksheet  Number of Dominant Species that are OBL, FACW, or FAC:   | 0 (A)                  |  |  |
| 2  |   |                     |                    | Total Number of Dominant Species Across all Strata:  | 1 (B)                  |  |  |
| 4<br>5<br>6  |   |                     |                    | Percent of Dominant Species that are OBL, FACW, or FAC:  | 0.00% (A/B)            |  |  |
| 7  |   |                     |                    |  |                        |  |  |
|  | 0 =   | = Total Cover       | r                  |  |                        |  |  |
| 50% of total cover: 0  | 20% of to   | otal cover:         | 0                  | Prevalence Index Worksheet   |                        |  |  |
| Charles Objectives (Dietoine) 20 feet                            |   |                     |                    | Total % Cover of:  | 0                      |  |  |
| <u>apling/Shrub Stratum</u> (Plot size: <u>30 feet</u> )<br>1    | į.  |                     |                    | OBL species x 1 = FACW species x 2 =   | 0                      |  |  |
| 2  |   |                     |                    | FAC species x 3 =  | 0                      |  |  |
| 3  |   |                     |                    | FACU species x 4 =   | 0                      |  |  |
|  |   |                     |                    | UPL species x 5 =  | 0                      |  |  |
| 5  |   |                     |                    | Column totals(A)   | (B)                    |  |  |
| 7  |   |                     |                    | Prevalence Index = B/A =   |                        |  |  |
| ·  | 0 :   | = Total Cover       | r                  |  |                        |  |  |
| 50% of total cover: 0  | 20% of total cover: 0                                       |                     |                    | Hydrophytic Vegetation Indica<br>Rapid test for hydrophytic ve   |                        |  |  |
| Herb stratum (Plot size: 30 feet )                               | )   |                     |                    | Dominance test is >50%   | , g = :                |  |  |
| Saccharum officinarum  | 65  | Y                   | FACU               | Prevalence index is ≤3.0*  |                        |  |  |
| Cyperus odoratus   | 5   | N                   | FACW               | Problematic hydrophytic vegetation* (explain)  |                        |  |  |
| 5  |   |                     |                    | *Indicators of hydric soil and wetland h<br>be present, unless disturbed or pre-   | oblematic              |  |  |
| 3  |   |                     |                    | Definitions of Four Vegetation   | Strata                 |  |  |
| 3  |   |                     |                    | <b>Tree</b> - Woody plants, excluding wapproximately 20 ft (6m) or more less than 3 in. (7.6 cm) DBH.  |                        |  |  |
| 0  |   |                     |                    | O and in a / Ohamba   Woody plants   | · ·-l··-dim a vinoo    |  |  |
|  |   |                     |                    | Sapling/Shrub - Woody plants, less than 3 in. DBH and greater to   |                        |  |  |
|  |   | = Total Cover       | r                  | tall   | ,                      |  |  |
| 50% of total cover: 35  Voody vine stratum (Plot size: 30 feet ) | 20% of total cover: 14                                      |                     |                    | Herb - All herbaceous (non-woody) plants,<br>including herbaceous vines, regardless of size,<br>and woody plants, except woody vines, less than<br>approximately 3 ft (1 m) in height. |                        |  |  |
|  |   |                     |                    | Woody vine - All woody vines, reheight.  |                        |  |  |
| 3  |   |                     |                    | neight.  |                        |  |  |
| 5  |   |                     |                    | Hydrophytic  |                        |  |  |
| 50% of total cover: 0  | 0 = Total Cover 50% of total cover: 0 20% of total cover: 0 |                     |                    |  | Vegetation No Present? |  |  |
| Remarks: (If observed, list morphological a                      |   |                     |                    |  |                        |  |  |
| rtomarke. (ii ebeerved, net merpheregiedi e                      | raaptation  | 5 501011).          |                    |  |                        |  |  |

| SOIL         |                             |                  |           |          |                |                      | 5                        | Sampling Point: | : DP4   |
|--------------|-----------------------------|------------------|-----------|----------|----------------|----------------------|--------------------------|-----------------|---|
| Profile Des  | cription: (Describe         | e to the c       | lepth nee | ded to d | docume         | ent the indic        | ator or confirm t        | he absence o    | f indicators.)  |
| Depth        | <u>Matrix</u>               |                  |           |          | Redo           | x Features           |                          |                 |   |
| (Inches)     | Color (moist)               | %                | Color (   | moist)   | %              | Type*                | Loc**                    | Texture         | Remarks   |
| 0-8          | 10YR 4/2                    | 100              |           |          |                |                      |                          | silty clay      |   |
| 8-16         | 10YR 4/2                    | 60               |           |          |                |                      |                          | clay            |   |
|              | 10YR 4/1                    | 40               |           |          |                |                      |                          | clay            |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
| *Type: C = 0 | Concentration, D = [        | Depletion        | , RM = Re | duced N  | /latrix, N     | /IS = Masked         | Sand Grains.             | **Location: P   | PL = Pore Lining, M = Matrix  |
| Hydric Sc    | oil Indicators:             |                  |           |          |                |                      |                          | Indicators fo   | or Problematic Hydric Soils:  |
| Histi        | isol (A1)                   |                  |           | Polyva   | alue Bel       | ow Surface (S        | 88) (LRR S, T, U)        | 1 cm Mud        | ck (A9) <b>(LRR O)</b>  |
| Histi        | ic Epipedon (A2)            |                  |           | Thin [   | Oark Sur       | face (S9) <b>(LR</b> | R S, T, U)               | 2 cm Mu         | ck (A10) <b>(LRR S)</b>   |
| Blac         | k Histic (A3)               |                  |           | Loam     | y Muck         | y Mineral (F1        | )                        | Reduced         | Vertic(F18) (outside MLRA 150A,B)                                     |
| Hyd          | rogen Sulfide (A4)          |                  |           | Loam     | y Gleye        | d Matrix (F2)        | )                        | Piedmon         | t Floodplain Soils (F19) (LRR P, S, T)                                |
| Stra         | tified Layers (A5)          |                  | _         | Deple    | ted Mat        | trix (F3)            |                          |                 | us Bright Loamy Soils (F20) <b>(MLRA</b>                              |
| Orga         | anic Bodies (A6) <b>(Lf</b> | RR P, T, I       | U)        | Redo     | x Dark S       | Surface (F6)         |                          | 153B)           |   |
| 5 cm         | n Mucky Mineral (A7         | 7) <b>(LRR I</b> | P, T, U)  | Deple    | ted Dar        | k Surface (F         | 7)                       | Red Pare        | ent Material (TF2)  |
| Muc          | k Presence (A8) <b>(LI</b>  | RR U)            |           | Redo     | x Depre        | essions (F8)         |                          | Very Sha        | allow Dark Surface (TF12)   |
| 1 cm         | n Muck (A9) (LRR P          | P, T)            |           |          | F10) <b>(L</b> | -                    |                          | Other (ex       | rplain in remarks)  |
| Dep          | leted Below Dark S          | urface (A        | 11)       | _        |                | ric (F11) <b>(ML</b> | -                        |                 |   |
|              | k Dark Surface (A1          | •                |           | _        | _              |                      | (F12) <b>(LRR O, P</b> , | T)              | *Indicators of hydrophytic vegetation                                 |
|              | st Prairie Redox (A1        |                  | <u> </u>  | Umbr     | ic Surfa       | ce (F13) <b>(LR</b>  | R P, T, U)               |                 | and weltand hydrology must be present unless disturbed or problematic |
|              | dy Mucky Mineral (S         |                  | O, S)     | Delta    | Ochric         | (F17) <b>(MLR</b>    | \ 151)                   |                 | unless disturbed of problematic                                       |
|              | dy Gleyed Matrix (S         | 4)               | _         | _        |                |                      | .RA 150A, 150B)          |                 |   |
|              | dy Redox (S5)               |                  | _         | _        |                | •                    | s (F19) <b>(MLRA 14</b>  | •               |   |
|              | oped Matrix (S6)            |                  | _         | Anom     | olous B        | Bright Loamy         | Soils (F20) (MLR         | A 149A, 153C    | , 153D)   |
| Dark         | k Surface (S7) <b>(LRR</b>  | ? P, S, T,       | U)        |          |                |                      |                          |                 |   |
| Restrictive  | Layer (if observed          | ):               |           |          |                |                      |                          |                 |   |
| Туре:        | Donth (inches               | \.               |           |          |                | -                    | Hydric Soil<br>Present?  | No              |   |
|              | Depth (inches               | ):               |           |          |                | _                    | 1 TOSOIIC.               |                 |   |
| Remarks:     |                             |                  |           |          |                |                      | <u> </u>                 |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |
|              |                             |                  |           |          |                |                      |                          |                 |   |



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

| Project/Site            | Claiborne Plantation Si   | te Cit                      | y/County: W           | hite Castle/II | perville     | Sampling Date:       | 1/20/20        | 016          |
|-------------------------|---------------------------|-----------------------------|-----------------------|----------------|--------------|----------------------|----------------|--------------|
| Applicant/Owner:        | Baton Rouge Area          | Chamber (BRAC               | ) State:              | Louisia        | ina          | Sampling Point:      | DP5            | 5            |
| Investigator(s):        | Christina Perez, Ka       | ale Wetekamm                | Section               | , Township,    | Range:       | Section 15, Town     | nship 10S, Ra  | inge 14E     |
| Landform (hillslope,    | terrace, etc.):           |                             | Local relief (        | concave, cor   | nvex, none   | e): none             | Slope (%):     | 0            |
| Subregion (LRR or N     | MLRA): LRR O              | Lat: 30°1                   | 1'46.76"N             | Long:          | 9            | 1°4'55.70"W          | Datum:         | NAD83        |
| Soil Map Unit Name      | Cb: Cancienne silt        | ty clay loam, 0 to 1        | percent slop          | es NV          | VI Classifi  | cation:              | none           |              |
| Are climatic/hydrolog   | ic conditions of the site | typical for this time       | e of the year?        | Yes            | (If no, exp  | olain in remarks)    |                |              |
| Are vegetation          | , soil, o                 | r hydrology                 | significantly         | disturbed?     | Are "nor     | mal circumstance     | s" present?    | Yes          |
| Are vegetation          |                           | r hydrology                 | naturally prol        |                |              | ed, explain any ar   |                | •            |
| SUMMARY OF F            | INDINGS Attach            | site map showi              | ng sampling           | point loca     | tions, tra   | nsects, importa      | ant features,  | etc.         |
| Hydrophytic veg         | •                         | No                          |                       |                |              |                      |                |              |
| Hydric soil prese       |                           | Yes                         | Is the                | Sampled A      | Area with    | nin a Wetland?       | No             |              |
| Indicators of wet       | land hydrology present?   | Yes                         |                       |                |              |                      |                |              |
| Remarks:                |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
| HYDROLOGY               |                           |                             |                       |                |              |                      |                |              |
| Wetland Hydrology       | Indicators:               |                             |                       |                |              |                      |                |              |
| , ,,                    | ninimum of one is require | ed; check all that a        | ар                    | Se             | econdary I   | Indicators (minimu   | um of two rear | uired)       |
| X Surface Water (A      | •                         | Aquatic Faun                | <u> </u>              | <u> </u>       | -            | ace Soil Cracks (B   | •              | <u>uncuj</u> |
| High Water Table        | ,                         |                             | s (B15) <b>(LRR (</b> | N.             |              | rsely Vegetated Co   |                | e (B8)       |
| X Saturation (A3)       | (A2)                      | <del></del>                 | Ifide Odor (C1        | -              |              | nage Patterns (B1    |                | e (DO)       |
| Water Marks (B1)        |                           |                             |                       |                |              | Season Water Tal     |                |              |
| Sediment Deposi         |                           | Oxidized Rhiz<br>Roots (C3) | zospheres on I        | Living         |              | s Trim Lines (B16)   |                |              |
| Drift Deposits (B3      |                           | <del></del> ` '             | Reduced Iron (        | (CA)           |              | yfish Burrows (C8)   |                |              |
| Algal Mat or Crus       |                           |                             |                       |                |              | uration Visible on A |                | (Ca)         |
| Iron Deposits (B5       |                           | Recent Iron F<br>Soils (C6) | Reduction in Ti       | lled           |              | morphic Position (   |                | (03)         |
| <del></del>             | on Aerial Imagery (B7)    | Thin Muck Su                | urface (C7)           |                |              | llow Aquitard (D3)   | ,              |              |
| Water-Stained Le        |                           |                             | in in Remarks)        |                |              | C-Neutral Test (D5)  |                |              |
|                         | uvos (B5)                 | Other (Explain              | in in remarks,        |                |              | agnum moss (D8)      | •              |              |
|                         |                           |                             |                       |                | <u> </u>     | ,                    | . , ,          |              |
| Field Observations      | :                         |                             |                       |                |              |                      |                |              |
| Surface water prese     | nt? Yes X                 | No Depth                    | (inches):             | 1-3            |              | Made I               |                |              |
| Water table present?    | Yes                       | No X Depth                  | (inches):             |                |              | Wetland<br>Hydrology | Yes            |              |
| Saturation present?     | Yes X                     | No Depth                    | (inches):             | 0              |              | Present?             |                |              |
| (includes capillary fri | nge)                      | <u></u>                     |                       |                |              |                      |                |              |
| Describe recorded d     | ata (stream gauge, mon    | itoring well, aerial        | photos, previo        | ous inspectio  | ons), if ava | ailable:             |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
| Remarks:                |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |
|                         |                           |                             |                       |                |              |                      |                |              |

| /EGETATION Use scientific names of pla    | nts.          |              |           | Sampling Point: DP5                                   |
|---|---------------|--------------|-----------|---|
|   | Absolute      | Dominant     | Indicator | Dominance Test Worksheet                              |
| <u>Tree Stratum</u> (Plot size: 30 feet ) | % Cover       | Species      | Staus     | Number of Dominant                                    |
| (Flot 3126. 30 feet )                     | 70 COVEI      | Species      | Staus     | Species that are OBL,                                 |
| 1   |               |              |           | FACW, or FAC: 1 (A)                                   |
| 2   |               |              |           | Total Number of Dominant                              |
| 3   |               |              |           | Species Across all Strata: 2 (B)                      |
| Λ   | <u> </u>      |              |           |   |
| <u> </u>                                  |               |              |           | Percent of Dominant Species                           |
| <u> </u>                                  |               |              |           | that are OBL, FACW, or                                |
| 6   |               |              |           | FAC: 50.00% (A/B                                      |
| 7   |               |              |           |   |
| 8   |               |              |           |   |
|   | 0             | = Total Cove |           |   |
| 50% of total cover: 0                     |               | otal cover:  | 0         | Prevalence Index Worksheet                            |
| 30 % of total cover.                      | - 20 /6 01 10 | Jiai Covei.  |           |   |
|   |               |              |           | Total % Cover of:                                     |
| Sapling/Shrub Stratum (Plot size: 30 feet | )             |              |           | OBL species $0 \times 1 = 0$                          |
| 1   | <b>-</b> ′    |              |           | FACW species 2 x 2 = 4                                |
| 2   |               |              |           | FAC species 25 x 3 = 75                               |
| 3   |               |              |           | FACU species 22 x 4 = 88                              |
| <u> </u>                                  |               |              |           |   |
| 4   |               |              |           | UPL species $2 \times 5 = 10$                         |
| <u></u>                                   |               |              |           | Column totals <u>51</u> (A) <u>177</u> (B)            |
| 6   |               |              |           |   |
| 7   |               |              |           | Prevalence Index = B/A = 3.47                         |
| 8   |               |              |           |   |
|   |               | = Total Cove |           |   |
|   |               |              |           |   |
| 50% of total cover: 0                     | 20% of to     | otal cover:  | 0         | Hydrophytic Vegetation Indicators:                    |
|   |               |              |           | Rapid test for hydrophytic vegetation                 |
| Herb stratum (Plot size: 30 feet          | )             |              |           | Dominance test is >50%                                |
| 1 Cyperus rotundus                        | _′<br>15      | Υ            | FAC       | Prevalence index is ≤3.0*                             |
|   | 15            | <u>'</u>     | FACU      |   |
| 2 Sonchus asper                           |               |              |           | Problematic hydrophytic                               |
| 3 Ranunculus sardous                      | 5             | N            | FAC       | vegetation* (explain)                                 |
| 4 Cardamine hirsuta                       | 5             | N            | FACU      | *Indicators of hydric soil and wetland hydrology must |
| 5 Amaranthus viridis                      | 5             | N            | FAC       | be present, unless disturbed or problematic           |
| 6 Trifolium repens                        | 5             | N            | FACU      | Definitions of Four Vegetation Strata                 |
| 7 Ipomoea cordatotriloba                  | 2             | N            | FACU      | Tree Monday plants avaluating woods vines             |
| 8 Equisetum hyemale                       |               |              | FACW      | Tree- Woody plants, excluding woody vines,            |
|   |               |              |           | approximately 20 ft (6m) or more in height and        |
| 9 Geranium carolinianum                   | 2             | N            | UPL       | less than 3 in. (7.6 cm) DBH.                         |
| 0   |               |              |           |   |
| 1   |               |              |           | Sapling/Shrub - Woody plants, excluding vine          |
| 2   |               |              |           | less than 3 in. DBH and greater than 3.26 ft (1       |
|   | 56            | = Total Cove | r         | tall  |
| 50% of total cover: 28                    |               | otal cover:  | 11.2      | Harb All barbassaus (non massis) plants               |
| 20,700. (0.0010070).                      |               |              |           | Herb - All herbaceous (non-woody) plants,             |
| Moody vino stratum / Plat size: 20 fa - t | ١             |              |           | including herbaceous vines, regardless of size        |
| Woody vine stratum (Plot size: 30 feet    | _')           |              |           | and woody plants, except woody vines, less th         |
| I   |               |              |           | approximately 3 ft (1 m) in height.                   |
| 2   |               |              |           | Woody vine - All woody vines, regardless of           |
| 3   |               |              |           | height.   |
| 4   |               |              |           |   |
| 5   | _             |              |           | Harder of Code  |
|   |               | T-4-1-0      |           | Hydrophytic   |
|   | 0             | = Total Cove | r         | Vegetation No   |
| 50% of total cover: 0                     | 20% of to     | otal cover:  | 0         | Present?  |
| Remarks: (If observed list marphalagical  | adaptation    | e helow)     |           |   |
| Remarks: (If observed, list morphological | auaptation    | is neiow).   |           |   |
|   |               |              |           |   |
|   |               |              |           |   |
|   |               |              |           |   |
|   |               |              |           |   |
|   |               |              |           |   |
|   |               |              |           |   |
|   |               |              |           |   |

| SOIL         |                             |                 |                    |                    |                       | 5                       | Sampling Point: | DP5   |
|--------------|-----------------------------|-----------------|--------------------|--------------------|-----------------------|-------------------------|-----------------|---|
| Profile Des  | cription: (Describe         | to the c        | lepth needed t     | o docume           | ent the indic         | ator or confirm t       | he absence o    | f indicators.)  |
| Depth        | <u>Matrix</u>               |                 |                    | Redo               | x Features            |                         |                 |   |
| (Inches)     | Color (moist)               | %               | Color (moist       | ) %                | Type*                 | Loc**                   | Texture         | Remarks   |
| 0-6          | 7.5YR 4/1                   | 95              | 7.5YR 4/6          | 5                  | С                     | М                       | clay            |   |
| 6-16         | 10YR 5/2                    | 60              | 10YR 5/8           | 20                 | С                     | М                       | clay            |   |
|              | 7.5YR 4/1                   | 20              |                    |                    |                       |                         | clay            |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
| *Type: C = 0 | Concentration, D = D        | epletion        | , RM = Reduce      | d Matrix, M        | /IS = Masked          | Sand Grains.            | **Location: P   | L = Pore Lining, M = Matrix   |
| Hydric Sc    | oil Indicators:             |                 |                    |                    |                       |                         | Indicators fo   | r Problematic Hydric Soils:   |
| Histi        | isol (A1)                   |                 | Pol                | yvalue Bel         | ow Surface (          | 88) (LRR S, T, U)       | 1 cm Mud        | ck (A9) <b>(LRR O)</b>  |
| Histi        | ic Epipedon (A2)            |                 | Thi                | n Dark Sur         | face (S9) <b>(LF</b>  | RR S, T, U)             | 2 cm Mud        | ck (A10) (LRR S)  |
| Blac         | k Histic (A3)               |                 | Loa                | amy Muck           | y Mineral (F1         | )                       | Reduced         | Vertic(F18) (outside MLRA 150A,B)                                   |
| Hyd          | rogen Sulfide (A4)          |                 | Loa                | amy Gleye          | ed Matrix (F2         | )                       | Piedmon         | t Floodplain Soils (F19) (LRR P, S, T)                              |
| Stra         | tified Layers (A5)          |                 | X De               | pleted Mat         | trix (F3)             |                         |                 | us Bright Loamy Soils (F20) (MLRA                                   |
| Orga         | anic Bodies (A6) <b>(LF</b> | RR P, T,        | <b>J)</b> Re       | dox Dark S         | Surface (F6)          |                         | 153B)           |   |
| 5 cm         | n Mucky Mineral (A7         | ) <b>(LRR I</b> | P, <b>T, U)</b> De | pleted Dar         | rk Surface (F         | 7)                      | Red Pare        | ent Material (TF2)  |
| Muc          | k Presence (A8) <b>(LF</b>  | RR U)           | Re                 | dox Depre          | essions (F8)          |                         | Very Sha        | llow Dark Surface (TF12)  |
| 1 cm         | n Muck (A9) (LRR P          | , <b>T</b> )    |                    | rl (F10) <b>(L</b> | -                     |                         | Other (ex       | plain in remarks)   |
| Dep          | leted Below Dark Su         | ırface (A       | ′ —                |                    | ric (F11) <b>(ML</b>  | -                       |                 |   |
|              | k Dark Surface (A12         | •               |                    | _                  |                       | (F12) <b>(LRR O, P,</b> | T)              | *Indicators of hydrophytic vegetation                               |
|              | st Prairie Redox (A1        |                 |                    | nbric Surfa        | ice (F13) <b>(LF</b>  | RR P, T, U)             |                 | and weltand hydrology must be presenunless disturbed or problematic |
|              | dy Mucky Mineral (S         |                 |                    |                    | (F17) <b>(MLR</b>     | -                       |                 | unless disturbed of problematic                                     |
|              | dy Gleyed Matrix (S         | 4)              | Re                 | duced Ver          | rtic (F18) <b>(ML</b> | RA 150A, 150B)          |                 |   |
|              | dy Redox (S5)               |                 |                    |                    | -                     | s (F19) <b>(MLRA 14</b> | -               |   |
|              | oped Matrix (S6)            |                 |                    | omolous B          | Bright Loamy          | Soils (F20) (MLR        | A 149A, 153C    | , 153D)   |
| Dark         | k Surface (S7) <b>(LRR</b>  | P, S, T,        | U)                 |                    |                       |                         |                 |   |
| Restrictive  | Layer (if observed)         | <b>)</b> :      |                    |                    |                       |                         |                 |   |
| Туре:        | Depth (inches)              | :               |                    |                    | _                     | Hydric Soil<br>Present? | Yes             |   |
|              |                             |                 |                    |                    | -                     |                         |                 |   |
| Remarks:     |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |
|              |                             |                 |                    |                    |                       |                         |                 |   |



DP5 facing north taken 1/20/2016



DP5 facing east taken 1/20/2016



DP5 facing south taken 1/20/2016





Soil profile at DP5 taken 1/20/2016

| Project/Site Claiborne Plantation Sit            | e City               | //County:     | White Castle/I  | berville    | Sampling Date:                        | 1/19/20        | J16                |
|--|----------------------|---------------|-----------------|-------------|---------------------------------------|----------------|--------------------|
| Applicant/Owner: Baton Rouge Area                | Chamber (BRAC)       | ) State       | e: Louisia      | ana         | Sampling Point:                       | DP6            | 3                  |
| Investigator(s): Christina Perez, Ka             | le Wetekamm          | Section       | on, Township,   | , Range:    | Section 67, Town                      | nship 10 S, Ra | ange 14E           |
| Landform (hillslope, terrace, etc.):             |                      | Local relief  | (concave, co    | nvex, non   | ne): concave                          | Slope (%):     | 2                  |
| Subregion (LRR or MLRA): LRR O                   | Lat: 30°10           | )'46.425"N    | Long:           | 9           | 01°4'22.089"W                         | Datum:         | NAD83              |
| Soil Map Unit Name Ca: Cancienne                 | silt loam, 0 to 1 pe | rcent slopes  | s NV            | VI Classif  | ication:                              | none           |                    |
| Are climatic/hydrologic conditions of the site t | ypical for this time | of the year   | ? Yes           | (If no, exp | plain in remarks)                     |                |                    |
| Are vegetation, soil, or                         | hydrology            | significantly | disturbed?      | Are "no     | rmal circumstance                     | es" present?   | Yes                |
|  |                      | naturally pr  |                 | •           | ded, explain any ar                   |                | •                  |
| SUMMARY OF FINDINGS Attach                       | site map showin      | ng samplin    | g point loca    | tions, tra  | ansects, importa                      | ant features,  | etc.               |
| Hydrophytic vegetation present?                  | Yes                  |               |                 |             |                                       |                |                    |
| Hydric soil present?                             | Yes                  | ls th         | ne Sampled      | Area witl   | hin a Wetland?                        | Yes            |                    |
| Indicators of wetland hydrology present?         | Yes                  |               | -               |             |                                       | -              |                    |
|  |                      |               |                 |             |                                       |                |                    |
| Remarks:   |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
| HYDROLOGY  |                      |               |                 |             |                                       |                |                    |
| Wetland Hydrology Indicators:                    |                      |               | 0               |             | · · · · · · · · · · · · · · · · · · · |                |                    |
| Primary Indicators (minimum of one is require    |                      |               | <u>S</u>        | -           | Indicators (minimu                    | •              | <u>uired)</u>      |
| Surface Water (A1)                               | Aquatic Fauna        | , ,           |                 |             | face Soil Cracks (B                   |                | / <del>-</del> - \ |
| High Water Table (A2)                            | Marl Deposits        |               | •               |             | arsely Vegetated Co                   |                | e (B8)             |
| X Saturation (A3)                                | Hydrogen Sul         | fide Odor (C  | ;1)             |             | ainage Patterns (B1                   |                |                    |
| Water Marks (B1)                                 | Oxidized Rhiz        | zospheres or  | n Living        |             | -Season Water Tab                     |                |                    |
| Sediment Deposits (B2)                           | Roots (C3)           |               |                 |             | ss Trim Lines (B16)                   |                |                    |
| X Drift Deposits (B3)                            | Presence of R        | Reduced Iron  | 1 (C4)          |             | ayfish Burrows (C8)                   |                |                    |
| Algal Mat or Crust (B4)                          | Recent Iron R        | Reduction in  | Tilled          |             | turation Visible on A                 |                | (C9)               |
| Iron Deposits (B5)                               | Soils (C6)           |               |                 |             | omorphic Position (                   |                |                    |
| Inundation Visible on Aerial Imagery (B7)        | Thin Muck Su         | ` ,           |                 |             | allow Aquitard (D3)                   |                |                    |
| X Water-Stained Leaves (B9)                      | Other (Explain       | n in Remarks  | s)              |             | C-Neutral Test (D5)                   |                |                    |
|  |                      |               |                 | Sph         | nagnum moss (D8)                      | (LRR T, U)     |                    |
|  |                      |               |                 |             |                                       |                |                    |
| Field Observations:                              |                      |               |                 |             |                                       |                |                    |
| · —  |                      | (inches):     |                 |             | Wetland                               | V              |                    |
| · ——   |                      | (inches):     |                 |             | Hydrology                             | Yes            |                    |
| ·  | No Depth             | (inches):     | 0               |             | Present?                              |                |                    |
| (includes capillary fringe)                      |                      |               |                 |             |                                       |                |                    |
| Describe recorded data (stream gauge, monit      | oring well, aerial p | photos, prev  | ious inspection | ons), if av | ailable:                              |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
| Remarks:   |                      |               |                 |             |                                       |                |                    |
| FAC-Neutral Test: 1:0                            |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |
|  |                      |               |                 |             |                                       |                |                    |

| <b>/EGETATION</b> Use scientific names of plan              | nts.           |               |           | Sampling Point:                               | DP6         |
|---|----------------|---------------|-----------|---|-------------|
|   | Absolute       | Dominant      | Indicator | Dominance Test Worksheet                      |             |
| <u>Tree Stratum</u> (Plot size: 30 feet )                   | % Cover        | Species       | Staus     | Number of Dominant                            |             |
| (Flot Size. 30 feet )                                       | % Cover        | Species       | Staus     | Species that are OBL,                         |             |
| 1   |                |               |           | FACW, or FAC: 2                               | (A)         |
| 2   |                |               |           | Total Number of Dominant                      |             |
| 3   |                |               |           | Species Across all Strata: 2                  | (B)         |
| 4   | . ——           |               |           | · · · · · · · · · · · · · · · · · · ·         | (           |
| <u> </u>  |                |               |           | Percent of Dominant Species                   |             |
| 5   |                |               |           | that are OBL, FACW, or                        | <i>(</i> -) |
| 6   |                |               |           | FAC: 100.00                                   | 0% (A/B)    |
| 7   |                |               |           |   |             |
| 8   |                |               |           |   |             |
|   | 0              | = Total Cove  | r         |   |             |
| E00/ of total cover:  |                |               |           | Prevalence Index Worksheet                    |             |
| 50% of total cover: 0                                       | 20% 01 10      | otal cover:   | 0         |   |             |
|   |                |               |           | Total % Cover of:                             |             |
| apling/Shrub Stratum (Plot size: 30 feet                    | )              |               |           | OBL species x 1 = 0                           | )           |
| <br>1   | <b>-</b> ′     |               |           | FACW species x 2 = 0                          | )           |
| 2   | . ——           |               |           | FAC species $x = 3$                           |             |
| 3   |                |               |           |   |             |
| 4   |                |               |           | ·   |             |
| +   |                |               |           | UPL species $x = 5 = 0$                       |             |
| 5   |                |               |           | Column totals (A) 0                           | (B)         |
| S   |                |               |           |   |             |
| ,   | -              |               |           | Prevalence Index = B/A =                      |             |
| 3   |                |               |           |   |             |
|   |                | - Total Corra |           |   |             |
|   |                | = Total Cove  |           |   |             |
| 50% of total cover: 0                                       | 20% of to      | otal cover:   | 0         | Hydrophytic Vegetation Indicators             | <b>;</b> :  |
|   |                |               |           | Rapid test for hydrophytic vegeta             | ation       |
| Herb stratum (Plot size: 30 feet                            | )              |               |           | X Dominance test is >50%                      |             |
| 1 Verbena incompta  | _,<br>         | Υ             | FACW      | Prevalence index is ≤3.0*                     |             |
|   |                |               |           |   |             |
| 2 Rubus argutus   | 10             | Y             | FAC       | Problematic hydrophytic                       |             |
| Sorghum halepense   | 5              | N             | FACU      | vegetation* (explain)                         |             |
| Rumex crispus   | 5              | N             | FAC       | *Indicators of hydric soil and wetland hydrol | ogy must    |
| 5   |                |               |           | be present, unless disturbed or problen       |             |
| 3   |                |               |           | <b>Definitions of Four Vegetation Stra</b>    | ata         |
| 7   |                |               |           | _   |             |
|   |                |               |           | Tree- Woody plants, excluding wood            |             |
| ,   |                |               |           | approximately 20 ft (6m) or more in h         | neight and  |
| )   |                |               |           | less than 3 in. (7.6 cm) DBH.                 |             |
| )   |                |               |           |   |             |
|   |                |               |           | Sapling/Shrub - Woody plants, exclu           | udina vine: |
|   | -              |               |           | less than 3 in. DBH and greater than          |             |
|   | 30             | = Total Cove  |           | tall  | ( 11        |
| 50% of total cover: 15                                      |                | otal cover:   | 6         |   |             |
| 30 /0 OI (O(a) COVEI. 13                                    |                | Jiai 60vel    | U         | Herb - All herbaceous (non-woody) p           |             |
| March Secretary (District                                   |                |               |           | including herbaceous vines, regardle          |             |
| Noody vine stratum (Plot size: 30 feet                      | _)             |               |           | and woody plants, except woody vine           | es, less th |
|   |                |               |           | approximately 3 ft (1 m) in height.           |             |
| 2   |                |               |           | Woody vine - All woody vines, regar           | dless of    |
| 3   |                | _             |           | height.                                       |             |
| 1   |                |               |           |   |             |
| 5   |                |               |           |   |             |
|   |                | <del></del>   |           | Hydrophytic                                   |             |
|   | 0              | = Total Cove  | r         | Vegetation Yes                                |             |
| 50% of total cover: 0                                       | 20% of to      | otal cover:   | 0         | Present?                                      |             |
| Demonstra //f about and Pater and I at a control of a later | و المعادة والم | a hala. \     |           | •   |             |
| Remarks: (If observed, list morphological                   | adaptation     | is below).    |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |
|   |                |               |           |   |             |

| SOIL         |                             |                 |                    |                 |                       | S                       | Sampling Point: | DP6  |
|--------------|-----------------------------|-----------------|--------------------|-----------------|-----------------------|-------------------------|-----------------|--|
| Profile Desc | cription: (Describe         | to the d        | lepth needed to    | docume          | ent the indic         | ator or confirm tl      | ne absence o    | f indicators.)   |
| Depth        | <u>Matrix</u>               |                 |                    | Redo            | x Features            |                         |                 |  |
| (Inches)     | Color (moist)               | %               | Color (moist)      | %               | Type*                 | Loc**                   | Texture         | Remarks  |
| 0-6          | 10YR 4/2                    | 100             |                    |                 |                       |                         | Clay            |  |
| 6-10         | 10YR 4/1                    | 90              | 10YR 3/6           | 10              | С                     | М                       | Clay            |  |
| 10-16        | 7.5YR 4/1                   | 75              | 7.5YR 4/6          | 25              | С                     | М                       | Clay            |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
| *Type: C = C | Concentration, D = D        | Depletion       | RM = Reduced       | Matrix, M       | 1S = Masked           | Sand Grains.            | **Location: P   | L = Pore Lining, M = Matrix  |
| Hydric So    | il Indicators:              |                 |                    |                 |                       |                         | Indicators fo   | r Problematic Hydric Soils:  |
| Histi        | sol (A1)                    |                 | Poly               | /alue Bel       | ow Surface (S         | 88) (LRR S, T, U)       | 1 cm Mud        | ck (A9) <b>(LRR O)</b>   |
| Histi        | c Epipedon (A2)             |                 | Thin               | Dark Sur        | face (S9) <b>(LR</b>  | R S, T, U)              | 2 cm Mud        | ck (A10) <b>(LRR S)</b>  |
| Blac         | k Histic (A3)               |                 | Loar               | ny Muck         | y Mineral (F1         | )                       | Reduced         | Vertic(F18) (outside MLRA 150A,B)                                    |
| Hydi         | rogen Sulfide (A4)          |                 | Loar               | ny Gleye        | d Matrix (F2)         | 1                       | Piedmon         | t Floodplain Soils (F19) (LRR P, S, T)                               |
| Straf        | tified Layers (A5)          |                 | X Dep              | eted Mat        | trix (F3)             |                         |                 | us Bright Loamy Soils (F20) (MLRA                                    |
| Orga         | anic Bodies (A6) <b>(LF</b> | RR P, T, I      | <b>J)</b> Red      | ox Dark S       | Surface (F6)          |                         | 153B)           |  |
| 5 cm         | n Mucky Mineral (A7         | ) (LRR I        | P, T, U) Dep       | eted Dar        | k Surface (F          | 7)                      | Red Pare        | ent Material (TF2)   |
| Muc          | k Presence (A8) <b>(LF</b>  | RR U)           | Red                | ox Depre        | ssions (F8)           |                         | Very Sha        | llow Dark Surface (TF12)   |
| 1 cm         | Muck (A9) (LRR P            | , T)            | Marl               | (F10) <b>(L</b> | RR U)                 |                         | Other (ex       | plain in remarks)  |
| Depl         | eted Below Dark Su          | urface (A       | 11) <u> </u>       | eted Och        | ric (F11) <b>(MLF</b> | RA 151)                 |                 |  |
|              | k Dark Surface (A12         | •               |                    | -               |                       | (F12) <b>(LRR O, P,</b> | Τ)              | *Indicators of hydrophytic vegetation                                |
| Coa          | st Prairie Redox (A1        | 6) ( <b>MLR</b> | <b>A 150A)</b> Umb | ric Surfa       | ce (F13) <b>(LR</b>   | R P, T, U)              |                 | and weltand hydrology must be presen unless disturbed or problematic |
| San          | dy Mucky Mineral (S         | 61) <b>(LRR</b> |                    |                 | (F17) <b>(MLRA</b>    | -                       |                 | unless disturbed of problematic                                      |
|              | dy Gleyed Matrix (S         | 4)              | Red                | uced Ver        | tic (F18) <b>(ML</b>  | RA 150A, 150B)          |                 |  |
|              | dy Redox (S5)               |                 |                    |                 | •                     | (F19) <b>(MLRA 14</b> 9 | •               |  |
|              | ped Matrix (S6)             |                 |                    | nolous B        | right Loamy           | Soils (F20) (MLRA       | A 149A, 153C    | , 153D)  |
| Dark         | Surface (S7) <b>(LRR</b>    | P, S, T,        | U)                 |                 |                       |                         |                 |  |
| Restrictive  | Layer (if observed          | <b>)</b> :      |                    |                 |                       |                         |                 |  |
| Туре:        | Depth (inches)              | ):              |                    |                 | -                     | Hydric Soil<br>Present? | Yes             |  |
|              |                             |                 |                    |                 | _                     |                         |                 |  |
| Remarks:     |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |
|              |                             |                 |                    |                 |                       |                         |                 |  |



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

| Project/Site            | Claiborne Plantation S     | Site Cit              | ty/County: W          | hite Castle/Iberville | Sampling Date:             | 1/19/20       | 016           |
|-------------------------|----------------------------|-----------------------|-----------------------|-----------------------|----------------------------|---------------|---------------|
| Applicant/Owner:        | Baton Rouge Are            | a Chamber (BRAC       | State:                | Louisiana             | Sampling Point:            | DP7           | 7             |
| Investigator(s):        | Christina Perez, K         | Kale Wetekamm         | Section               | , Township, Range     | Section 65, Town           | ship 10S, Ra  | nge 14E       |
| Landform (hillslope,    | terrace, etc.):            |                       | Local relief (c       | oncave, convex, no    | one): none                 | Slope (%):    | 0             |
| Subregion (LRR or N     | MLRA): LRR O               | Lat: 30°1             | 0'27.509"N            | Long:                 | 91°4 <sup>'</sup> 19.757"W | Datum:        | NAD83         |
| Soil Map Unit Name      | Cb: Cancienne si           | lty clay loam, 0 to 1 | percent slope         | es NWI Class          | sification:                | none          |               |
| Are climatic/hydrolog   | gic conditions of the site | typical for this time | e of the year?        | Yes (If no, e         | explain in remarks)        | <del></del>   |               |
| Are vegetation          | , soil, o                  | or hydrology          | significantly d       | isturbed? Are "n      | ormal circumstance         | s" present?   | Yes           |
| Are vegetation          | , soil , o                 | or hydrology          | naturally prob        | lematic? (If nee      | eded, explain any an       | swers in rem  | arks.)        |
| SUMMARY OF F            | INDINGS Attach             | n site map showi      | ng sampling           | point locations,      | transects, importa         | nt features,  | etc.          |
| Hydrophytic veg         | etation present?           | Yes                   |                       |                       |                            |               |               |
| Hydric soil prese       | nt?                        | Yes                   | Is the                | Sampled Area w        | ithin a Wetland?           | Yes           |               |
| Indicators of wet       | land hydrology present     | ? Yes                 | 10                    | Odinpiod 7ou          |                            | 103           |               |
|                         |                            |                       |                       |                       |                            |               |               |
| Remarks:                |                            |                       |                       |                       |                            |               |               |
| 1                       |                            |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
| HYDROLOGY               |                            |                       |                       |                       |                            |               |               |
| Wetland Hydrology       | Indicators:                |                       |                       |                       |                            |               |               |
|                         | ninimum of one is requi    | red: check all that : | an                    | Secondar              | y Indicators (minimu       | m of two real | uirod)        |
|                         |                            |                       |                       | <u></u>               | y Indicators (minimu       | •             | <u>Jireu)</u> |
| X Surface Water (A      |                            | Aquatic Faur          |                       | . —                   | urface Soil Cracks (B      |               | - (DO)        |
| X High Water Table      | (A2)                       | <del></del>           | s (B15) <b>(LRR U</b> |                       | parsely Vegetated Co       |               | e (B8)        |
| X Saturation (A3)       |                            | Hydrogen Su           | ılfide Odor (C1)      | <del></del>           | rainage Patterns (B10      |               |               |
| Water Marks (B1)        |                            | χ Oxidized Rhi        | zospheres on L        | .ivirig               | ry-Season Water Tab        | , ,           |               |
| Sediment Deposi         |                            | Roots (C3)            |                       | <del></del>           | loss Trim Lines (B16)      |               |               |
| Drift Deposits (B3      |                            | Presence of           | Reduced Iron (        | <del></del>           | rayfish Burrows (C8)       |               |               |
| Algal Mat or Crus       |                            |                       | Reduction in Til      |                       | aturation Visible on A     |               | (C9)          |
| Iron Deposits (B5       |                            | Soils (C6)            |                       | G                     | eomorphic Position (I      | D2)           |               |
| Inundation Visible      | e on Aerial Imagery (B7)   | Thin Muck S           | urface (C7)           | s                     | hallow Aquitard (D3)       |               |               |
| Water-Stained Le        | aves (B9)                  | Other (Expla          | in in Remarks)        |                       | AC-Neutral Test (D5)       |               |               |
|                         |                            |                       |                       | s                     | phagnum moss (D8)          | (LRR T, U)    |               |
|                         |                            |                       |                       | r                     |                            |               |               |
| Field Observations      | :                          |                       |                       |                       |                            |               |               |
| Surface water prese     |                            | No Depth              | (inches):             | 1-2                   | Wetland                    |               |               |
| Water table present?    | Yes X                      | No Depth              | (inches):             | 8                     | Hydrology                  | Yes           |               |
| Saturation present?     | Yes X                      | No Depth              | (inches):             | 0                     | Present?                   |               |               |
| (includes capillary fri | nge)                       |                       |                       |                       |                            |               |               |
| Describe recorded d     | ata (stream gauge, mor     | nitoring well, aerial | photos, previo        | us inspections), if a | available:                 |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
| Remarks:                |                            |                       |                       |                       |                            |               |               |
| FAC-Neutral Tes         | t: 3:0                     |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |
|                         |                            |                       |                       |                       |                            |               |               |

| <b>'EGETATION</b> Use scientific names of plar | nts.        |                     |           | Sampling Point:  | DP7                                    |
|--|-------------|---------------------|-----------|--|--|
|  | Absolute    | Dominant            | Indicator | Dominance Test Worksheet   |  |
| <u>Tree Stratum</u> (Plot size: 30 feet )      | % Cover     | Dominant<br>Species | Staus     | Number of Dominant   |  |
| (1 lot 5/26. 30 leet )                         | 70 COVE     | Species             | Staus     | Species that are OBL,  |  |
| 1  |             |                     |           | FACW, or FAC:  | 3 (A)                                  |
| 2  |             |                     |           | Total Number of Dominant   |  |
| 3  |             |                     |           | Species Across all Strata:   | 3 (B)                                  |
| 4  |             |                     |           | Percent of Dominant Species  |  |
| 5  |             |                     |           | that are OBL, FACW, or   |  |
| -<br>6   |             |                     |           |  | ).00% (A/B)                            |
| 7  |             |                     |           | 1710   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| ,<br>8   |             |                     |           |  |  |
| ·  |             |                     |           |  |  |
|  | 0           | = Total Cove        | r         |  |  |
| 50% of total cover: 0                          | 20% of to   | otal cover:         | 0         | Prevalence Index Worksheet   |  |
|  |             | _                   |           | Total % Cover of:  |  |
| apling/Shrub Stratum (Plot size: 30 feet       | ١           |                     |           | OBL species x 1 =  | 0                                      |
| · · · · · · · · · · · · · · · · · · ·          | ,           | V                   | EAC)A/    |  |  |
|  | 5           | <u> </u>            | FACW      | FACW species x 2 =   | 0                                      |
| 2  |             |                     |           | FAC species x 3 =  | 0                                      |
| 3  |             |                     |           | FACU species x 4 =   | 0                                      |
|  |             |                     |           | UPL speciesx 5 =   | 0                                      |
|  |             |                     |           | Column totals (A)  | 0 (B)                                  |
| ;  |             |                     |           |  |  |
|  |             |                     |           | Prevalence Index = B/A =   |  |
| 3  |             |                     |           | _  |  |
|  | 5           | = Total Cove        |           |  |  |
| FOO/ of total acress O.F.                      |             | otal cover:         |           | Liverantic Veretation Indicate   |  |
| 50% of total cover: 2.5                        | 20% OF IC   | Jiai Cover.         | 1         | Hydrophytic Vegetation Indicate  |  |
|  |             |                     |           | Rapid test for hydrophytic veg   | etation                                |
| Herb stratum (Plot size: 30 feet               | )           |                     |           | X Dominance test is >50%   |  |
| Ludwigia palustris                             | 40          | Υ                   | OBL       | Prevalence index is ≤3.0*  |  |
| Eleocharis obtusa                              | 15          | Υ                   | OBL       | Problematic hydrophytic  |  |
| Rumex crispus                                  | 10          | N                   | FAC       | vegetation* (explain)  |  |
| Ranunculus sardous                             | 10          | N                   | FAC       |  | drology my t                           |
| 5 Acmella repens                               | 5           | N                   | FACW      | *Indicators of hydric soil and wetland hyd<br>be present, unless disturbed or prob |  |
| ·  | 2           | N                   | FACW      | Definitions of Four Vegetation S   |  |
| 6 Cyperus odoratus                             |             |                     |           | Definitions of Four Vegetation S   | oliala                                 |
| 7 Juncus effusus                               | 2           | <u>N</u>            | OBL       | Tree- Woody plants, excluding wo   | ody vines,                             |
|  |             |                     |           | approximately 20 ft (6m) or more i   | n height and                           |
| 9  |             |                     |           | less than 3 in. (7.6 cm) DBH.  |  |
| )  |             |                     |           |  |  |
|  |             |                     |           | Sapling/Shrub - Woody plants, ex   | xcluding vine                          |
|  |             |                     |           | less than 3 in. DBH and greater th   |  |
|  | 84          | = Total Cove        |           | tall   | J.20 IC ( II                           |
| 50% of total cover: 42                         |             | otal cover:         | 16.8      |  | 1) mla:-4-                             |
| 30 /0 01 10101 00 001.                         | _0 /0 OI (( |                     |           | Herb - All herbaceous (non-woody   |  |
| Noody vine stratum (Plot size: 30 feet         | ١           |                     |           | including herbaceous vines, regard   |  |
| •  | ,           |                     |           | and woody plants, except woody vapproximately 3 ft (1 m) in height.                | rines, iess th                         |
|  |             |                     |           | Woody vine - All woody vines, reg  | aardlage of                            |
|  |             |                     |           | height.  | yarui <del>c</del> ss Ul               |
|  |             |                     |           | gric.  |  |
| 1  |             |                     |           |  |  |
| 5  |             |                     |           | Hydrophytic  |  |
|  | 0           | = Total Cove        | r         | Vegetation Yes   | 8                                      |
| 50% of total cover: 0                          |             | otal cover:         | 0         | Present?   | _                                      |
|  |             |                     | -         | L  |  |
| Remarks: (If observed, list morphological      | adaptation  | s below).           |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |
|  |             |                     |           |  |  |

| SOIL         |  |                 |                |            |                   |                        | Ş                       | Sampling Point: | DP7   |
|--------------|--|-----------------|----------------|------------|-------------------|------------------------|-------------------------|-----------------|---|
| Profile Des  | cription: (Describe                    | to the o        | depth need     | led to d   | docume            | ent the indic          | ator or confirm t       | he absence o    | f indicators.)                                    |
| Depth        | <u>Matrix</u>                          |                 |                |            | Redo              | x Features             |                         |                 |   |
| (Inches)     | Color (moist)                          | %               | Color (m       | noist)     | %                 | Type*                  | Loc**                   | Texture         | Remarks   |
| 0-16         | 10YR 5/1                               | 85              | 10YR           | 4/6        | 15                | С                      | М                       | Clay            |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
| *T. ma. C. / | Concentration D. F                     | )<br>Namiation  | DM Doo         | lucad N    | Actris: N         | IC Maakad              | Sand Crains             | **!             | Doro Lining M. Motris                             |
|              | Concentration, $D = D$ oil Indicators: | epietion        | , RIVI = Rec   | iucea iv   | natrix, iv        | 15 = Masked            | Sand Grains.            |                 | L = Pore Lining, M = Matrix                       |
| •            |  |                 |                | Doba.      | alua Bala         | ou Curtooo (           | 20\                     |                 | r Problematic Hydric Soils:                       |
|              | isol (A1)<br>ic Epipedon (A2)          |                 |                | _          |                   | face (S9) <b>(LR</b>   | 88) (LRR S, T, U)       |                 | ck (A9) <b>(LRR O)</b><br>ck (A10) <b>(LRR S)</b> |
|              | ck Histic (A3)                         |                 |                | _          |                   | / Mineral (F1          | -                       |                 | Vertic(F18) (outside MLRA 150A,B)                 |
|              | Irogen Sulfide (A4)                    |                 |                | _          | -                 | d Matrix (F2           |                         |                 | t Floodplain Soils (F19) (LRR P, S, T)            |
|              | atified Layers (A5)                    |                 | X              | _          | ted Mat           |                        | ,                       |                 | us Bright Loamy Soils (F20) (MLRA                 |
|              | anic Bodies (A6) <b>(LR</b>            | R P. T.         |                | _          |                   | Surface (F6)           |                         | 153B)           | ao Bright Loamy Cono (1 20) (META                 |
|              | n Mucky Mineral (A7                    |                 | -              | _          |                   | k Surface (F           | 7)                      | Red Pare        | ent Material (TF2)                                |
|              | ck Presence (A8) <b>(LF</b>            |                 | , , -, <u></u> | _          |                   | ssions (F8)            | ,                       |                 | llow Dark Surface (TF12)                          |
|              | n Muck (A9) (LRR P                     | -               |                | _          | [F10] <b>(L</b> l |                        |                         |                 | plain in remarks)                                 |
|              | oleted Below Dark Su                   | -               | 11)            |            |                   | ric (F11) <b>(ML</b> l | RA 151)                 |                 | ,   |
|              | ck Dark Surface (A12                   | -               | ·              | Iron-N     | /langane          | ese Masses             | (F12) <b>(LRR O, P,</b> | T)              | *Indicators of hydrophytic vegetation             |
| Coa          | ast Prairie Redox (A1                  | 6) ( <b>MLR</b> | A 150A)        | Umbr       | ic Surfa          | ce (F13) <b>(LR</b>    | R P, T, U)              |                 | and weltand hydrology must be present             |
| San          | ndy Mucky Mineral (S                   | 1) <b>(LRR</b>  | O, S)          | _<br>Delta | Ochric (          | (F17) <b>(MLR</b>      | \ 151)                  |                 | unless disturbed or problematic                   |
| San          | dy Gleyed Matrix (S                    | 4)              |                | Redu       | ced Ver           | tic (F18) <b>(ML</b>   | .RA 150A, 150B)         |                 |   |
| San          | dy Redox (S5)                          |                 |                | Piedm      | nont Flo          | odplain Soils          | (F19) <b>(MLRA 14</b>   | 9A)             |   |
| Strip        | oped Matrix (S6)                       |                 |                | Anom       | olous B           | right Loamy            | Soils (F20) (MLR        | A 149A, 153C    | , 153D)   |
| Dar          | k Surface (S7) (LRR                    | P, S, T,        | U)             | _          |                   |                        |                         |                 |   |
| <u> </u>     |  |                 |                |            |                   |                        |                         |                 |   |
|              | Layer (if observed)                    | :               |                |            |                   |                        |                         |                 |   |
| Туре:        | Depth (inches)                         | :               |                |            |                   |                        | Hydric Soil<br>Present? | Yes             |   |
|              |  |                 |                |            |                   |                        |                         |                 |   |
| 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

| Project/Site           | Claiborne Plantation S     | ite Cit               | y/County: Wh             | ite Castle/Iberville   | Sampling Date:        | 1/19/20       | 016         |
|------------------------|----------------------------|-----------------------|--------------------------|------------------------|-----------------------|---------------|-------------|
| Applicant/Owner:       | Baton Rouge Area           | a Chamber (BRAC       | ) State:                 | Louisiana              | Sampling Point:       | DP8           | 3           |
| Investigator(s):       | Christina Perez, K         | ale Wetekamm          | Section,                 | Township, Range:       | Section 68, Town      | ship 10S, Ra  | inge 14E    |
| Landform (hillslope,   | terrace, etc.):            |                       | Local relief (co         | oncave, convex, non    | ne): none             | Slope (%):    | 0           |
| Subregion (LRR or I    | MLRA): LRR O               | Lat: 30°10            | 0'26.501"N               | Long: 9                | 1°4'43.562"W          | Datum:        | NAD83       |
| Soil Map Unit Name     | Cb: Cancienne sil          | Ity clay loam, 0 to 1 | I percent slope          | s NWI Classif          | fication:             | none          |             |
| Are climatic/hydrolog  | gic conditions of the site | typical for this time | e of the year?           | Yes (If no, ex         | plain in remarks)     |               |             |
| Are vegetation         | , soil , c                 | or hydrology          | significantly di         | sturbed? Are "no       | rmal circumstances    | s" present?   | Yes         |
| Are vegetation         | , soil , c                 | or hydrology          | naturally probl          | ematic? (If need       | ded, explain any an   | swers in rem  | arks.)      |
| SUMMARY OF F           | INDINGS Attach             | site map showi        | ng sampling <sub> </sub> | point locations, tr    | ansects, importa      | nt features,  | etc.        |
| Hydrophytic veg        | etation present?           | Yes                   |                          |                        |                       |               |             |
| Hydric soil prese      | ent?                       | Yes                   | Is the                   | Sampled Area wit       | hin a Wetland?        | Yes           |             |
| Indicators of we       | tland hydrology present?   | ? Yes                 | 13 1110                  | oumpieu Area Wit       | inii a wenana:        | 163           |             |
|                        |                            |                       |                          |                        |                       |               |             |
| Remarks:               |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
| HYDROLOGY              |                            |                       |                          |                        |                       |               |             |
| Wetland Hydrology      | Indicators:                |                       |                          |                        |                       |               |             |
| Primary Indicators (r  | minimum of one is requi    | red; check all that a | ар                       | Secondary              | Indicators (minimu    | m of two requ | uired)      |
| X Surface Water (A     | <b>(1)</b>                 | Aquatic Faur          | na (B13)                 | Sur                    | face Soil Cracks (Bo  | <br>6)        | <del></del> |
| X High Water Table     |                            |                       | s (B15) <b>(LRR U</b> )  |                        | arsely Vegetated Co   |               | e (B8)      |
| X Saturation (A3)      | ,                          | Hvdrogen Su           | ılfide Odor (C1)         |                        | ainage Patterns (B10  |               | ` ,         |
| Water Marks (B1        | )                          | <del></del>           |                          |                        | -Season Water Tab     |               |             |
| Sediment Deposi        | •                          | Roots (C3)            | zospheres on Li          | virig ·                | ss Trim Lines (B16)   | - (- )        |             |
| Drift Deposits (B      |                            |                       | Reduced Iron (C          |                        | ayfish Burrows (C8)   |               |             |
| Algal Mat or Crus      |                            |                       |                          |                        | turation Visible on A | erial Imagery | (C9)        |
| Iron Deposits (B5      | ,                          | Soils (C6)            | Reduction in Till        | <del></del>            | omorphic Position ([  | • •           | (33)        |
|                        | e on Aerial Imagery (B7)   | Thin Muck S           | urface (C7)              |                        | allow Aquitard (D3)   | /             |             |
| Water-Stained Le       |                            |                       | in in Remarks)           |                        | C-Neutral Test (D5)   |               |             |
|                        | ,4400 (20)                 | Other (Explain        | in in Romano,            |                        | nagnum moss (D8) (    | LRR T. U)     |             |
|                        |                            |                       |                          | <u> </u>               | g(20)                 |               |             |
| Field Observations     | ·                          |                       |                          |                        |                       |               |             |
| Surface water prese    |                            | No Depth              | (inches):                | 1                      |                       |               |             |
| Water table present    |                            | - <u></u> ·           | (inches):                | 8                      | Wetland               | Yes           |             |
| Saturation present?    | Yes X                      | · ·                   | (inches):                | 0                      | Hydrology<br>Present? | 103           |             |
| (includes capillary fr |                            |                       | (11101165).              |                        | i resent:             |               |             |
|                        |                            | sitoring well periol  | photos proviou           | us inspections) if av  | railable:             |               |             |
| Describe recorded o    | lata (stream gauge, mor    | illoring well, aerial | priotos, previot         | us inspections), ii av | allable:              |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
| Remarks:               |                            |                       |                          |                        |                       |               |             |
| FAC-Neutral Te         | st: 1:0                    |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |
|                        |                            |                       |                          |                        |                       |               |             |

| <b>/EGETATION</b> Use scientific names of plan | nts.         |              |           | Sampling Point:                          | DP8             |
|--|--------------|--------------|-----------|--|-----------------|
|  | Absolute     | Dominant     | Indicator | Dominance Test Worksheet                 |                 |
| <u>Tree Stratum</u> (Plot size: 30 feet )      | % Cover      | Species      | Staus     | Number of Dominant                       |                 |
| (Flot Size. 30 feet )                          | % Cover      | Species      | Staus     | Species that are OBL,                    |                 |
| 1  |              |              |           | FACW, or FAC:                            | 2 (A)           |
| 2  |              |              |           | Total Number of Dominant                 |                 |
| 3  |              |              |           | Species Across all Strata:               | 2 (B)           |
| 4  |              |              |           | 1 · ·                                    | (-/             |
| -  | _            |              |           | Percent of Dominant Species              |                 |
| <u> </u>                                       |              |              |           | that are OBL, FACW, or                   | 00.000/ /4      |
| <u> </u>                                       |              |              |           | FAC: 10                                  | 00.00% (A/      |
| 7  |              |              |           |  |                 |
| 8  |              |              |           |  |                 |
|  | 0            | = Total Cove | r         |  |                 |
| 50% of total cover: 0                          | 20% of to    | otal cover:  | 0         | Prevalence Index Worksheet               |                 |
| 30 % of total cover.                           | 20 /0 01 10  | nai covei.   |           |  |                 |
|  |              |              |           | Total % Cover of:                        |                 |
| Sapling/Shrub Stratum (Plot size: 30 feet      | )            |              |           | OBL species x 1 =                        | 0               |
| 1  | <b>-</b> *   |              |           | FACW species x 2 =                       | 0               |
| 2  | · ——         |              |           | FAC species x 3 =                        | 0               |
| 2  | _            |              |           | FACU species x 4 =                       | 0               |
|  |              |              |           |  |                 |
| <u>+</u>                                       |              |              |           | UPL species x 5 =                        | 0 (D)           |
| )  |              |              |           | Column totals(A)                         | (B)             |
| 5  |              |              |           |  |                 |
| 7  |              |              |           | Prevalence Index = B/A =                 |                 |
| 3  |              |              |           |  |                 |
| -  | 0            | = Total Cove |           |  |                 |
|  |              |              |           |  |                 |
| 50% of total cover: 0                          | 20% of to    | otal cover:  | 0         | Hydrophytic Vegetation Indica            |                 |
|  |              |              |           | Rapid test for hydrophytic ve            | getation        |
| Herb stratum (Plot size: 30 feet               | )            |              |           | X Dominance test is >50%                 |                 |
| 1 Echinochloa crus-galli                       | 35           | Υ            | FACW      | Prevalence index is ≤3.0*                |                 |
| 2 Cyperus rotundus                             | 15           | <u> </u>     | FAC       | <b></b>                                  |                 |
|  |              |              | 170       | Problematic hydrophytic                  |                 |
| 3  |              |              |           | vegetation* (explain)                    |                 |
| 4  |              |              |           | *Indicators of hydric soil and wetland h |                 |
| 5  |              |              |           | be present, unless disturbed or pr       | oblematic       |
| 6  |              |              |           | <b>Definitions of Four Vegetation</b>    | Strata          |
| 7  |              |              |           | Tree Woody plants evaluding u            | uoodu vinoo     |
|  |              |              |           | Tree- Woody plants, excluding v          |                 |
|  |              |              |           | approximately 20 ft (6m) or more         | an neight an    |
|  |              |              |           | less than 3 in. (7.6 cm) DBH.            |                 |
| )  |              |              |           |  |                 |
|  |              |              |           | Sapling/Shrub - Woody plants,            | excluding vir   |
|  | -            |              |           | less than 3 in. DBH and greater          | than 3.26 ft (  |
|  | 50           | = Total Cove | r         | tall                                     | `               |
| 50% of total cover: 25                         |              | otal cover:  | 10        | Harb All barbasas /                      | du) =   = = + = |
| 20,70 0. 10.00. 001011                         |              | _            |           | Herb - All herbaceous (non-woo           |                 |
| Moody vino otroture (District 200 feet         | \            |              |           | including herbaceous vines, rega         |                 |
| Noody vine stratum (Plot size: 30 feet         | _)           |              |           | and woody plants, except woody           |                 |
|  |              |              |           | approximately 3 ft (1 m) in heigh        |                 |
| 2  |              |              |           | Woody vine - All woody vines, r          | egardless of    |
| 3  |              |              |           | height.                                  |                 |
| 1  |              |              |           |  | -               |
| ·<br>5   | . ——         |              |           | 1  |                 |
| <u> </u>                                       |              | <del></del>  |           | Hydrophytic                              |                 |
|  | 0            | = Total Cove | r         | Vegetation Ye                            | <b>?</b> S      |
| 50% of total cover: 0                          | 20% of to    | otal cover:  | 0         | Present?                                 |                 |
| Demonto //f absenced Reference Like 1          | و المعادمة و | ۱ ندامه      |           |  |                 |
| Remarks: (If observed, list morphological      | adaptation   | s pelow).    |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |
|  |              |              |           |  |                 |

| SOIL         |                                  |          |                       |  |                 |                      |                          | Sampling Point:                               | DP8   |  |  |  |
|--------------|----------------------------------|----------|-----------------------|--|-----------------|----------------------|--------------------------|---|---|--|--|--|
| Profile Des  | cription: (Describe              | to the c | lepth need            | ded to d   | docume          | ent the indic        | ator or confirm          | the absence o                                 | f indicators.)  |  |  |  |
| Depth        | Denth <u>Matrix</u>              |          |                       |  | Redo            | x Features           |                          |   |   |  |  |  |
| (Inches)     | Color (moist)                    | %        | Color (moist) % Type* |  |                 |                      | Loc**                    | Texture                                       | Remarks   |  |  |  |
| 0-16         | 0-16 7.5YR 5/1 85 7.5YR 4/6 15 C |          |                       | С  | М               | Clay                 |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
|              |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
| *Type: C = 0 | Concentration, D = D             | epletion | , RM = Red            | duced N  | /latrix, M      | IS = Masked          | Sand Grains.             | **Location: F                                 | PL = Pore Lining, M = Matrix  |  |  |  |
| Hydric So    | oil Indicators:                  |          |                       |  |                 |                      |                          | Indicators fo                                 | or Problematic Hydric Soils:  |  |  |  |
| Hist         | isol (A1)                        |          | _                     | Polyva   | alue Belo       | ow Surface (S        | 88) (LRR S, T, U)        | 1 cm Mu                                       | ck (A9) <b>(LRR O)</b>  |  |  |  |
| Hist         | ic Epipedon (A2)                 |          |                       | Thin D   | Dark Sur        | face (S9) <b>(LR</b> | R S, T, U)               | 2 cm Muck (A10) (LRR S)                       |   |  |  |  |
| Blac         | ck Histic (A3)                   |          | _                     | _Loam  | y Mucky         | y Mineral (F1        | )                        | Reduced Vertic(F18) (outside MLRA 150A,B)     |   |  |  |  |
| Hyd          | rogen Sulfide (A4)               |          |                       | Loam   | y Gleye         | d Matrix (F2)        | )                        | Piedmont Floodplain Soils (F19) (LRR P, S, T) |   |  |  |  |
|              | tified Layers (A5)               |          |                       | Deple  | eted Mat        | trix (F3)            |                          | Anomolous Bright Loamy Soils (F20) (MLRA      |   |  |  |  |
|              | anic Bodies (A6) <b>(LR</b>      |          | _                     | Redo   | x Dark S        | Surface (F6)         |                          | 153B)   |   |  |  |  |
|              | n Mucky Mineral (A7              |          | P, T, U)              |  |                 | k Surface (F         | 7)                       | Red Parent Material (TF2)                     |   |  |  |  |
|              | ck Presence (A8) <b>(LR</b>      | -        |                       | _  | -               | ssions (F8)          |                          | Very Shallow Dark Surface (TF12)              |   |  |  |  |
|              | n Muck (A9) (LRR P               |          |                       |  | (F10) <b>(L</b> | -                    |                          | Other (explain in remarks)                    |   |  |  |  |
|              | leted Below Dark Su              | -        | 11)                   | _ `  |                 | ric (F11) <b>(ML</b> | -                        |   |   |  |  |  |
|              | ck Dark Surface (A12             |          | <u>.</u> .            | _  |                 |                      | (F12) <b>(LRR O, P</b> , | Т)  | *Indicators of hydrophytic vegetation                                 |  |  |  |
|              | st Prairie Redox (A1             | , ,      | <u> </u>              | _  |                 | ce (F13) <b>(LR</b>  | -                        |   | and weltand hydrology must be present unless disturbed or problematic |  |  |  |
|              | dy Mucky Mineral (S              |          | O, S)                 | Delta Ochric (F17) (MLRA 151)                              |                 |                      |                          |   |   |  |  |  |
|              | dy Gleyed Matrix (S4             | 4)       |                       | Reduced Vertic (F18) (MLRA 150A, 150B)                     |                 |                      |                          |   |   |  |  |  |
|              | dy Redox (S5)                    |          |                       | Piedmont Floodplain Soils (F19) (MLRA 149A)                |                 |                      |                          |   |   |  |  |  |
|              | oped Matrix (S6)                 | D 0 T    | –                     | Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) |                 |                      |                          |   |   |  |  |  |
| Dan          | k Surface (S7) <b>(LRR</b>       | P, S, 1, | U)                    |  |                 |                      |                          |   |   |  |  |  |
| Restrictive  | Layer (if observed)              | :        |                       |  |                 |                      |                          |   |   |  |  |  |
| Type:        |                                  |          |                       |  | Hydric Soi      |                      |                          | l Yes   |   |  |  |  |
|              | Depth (inches):                  |          |                       |  |                 | -                    | Present?                 |   |   |  |  |  |
| Remarks:     |                                  |          |                       |  |                 |                      |                          |   |   |  |  |  |
| 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

| Project/Site 0            | Claiborne Plantation Si | ite Cit               | y/County: Whi          | ite Castle/Iber                       | ville Sampling Date:                      | 1/19/2016                  |  |  |  |
|---------------------------|-------------------------|-----------------------|------------------------|---------------------------------------|---|----------------------------|--|--|--|
| Applicant/Owner:          | Baton Rouge Area        |                       |                        | Louisiana                             |   | DP9                        |  |  |  |
| Investigator(s):          | Christina Perez, Ka     |                       |                        | Township, Ra                          | ange: Section 68, Towr                    | nship 10S, Range 14E       |  |  |  |
| Landform (hillslope, te   | rrace, etc.):           |                       | Local relief (co       | ncave, conve                          | ex, none): none                           | Slope (%): 0               |  |  |  |
| Subregion (LRR or ML      | .RA): LRR O             | Lat: 30°10            | 0'24.401"N             | Long:                                 | 91°4'37.635"W                             | Datum: NAD83               |  |  |  |
| Soil Map Unit Name        | Cb: Cancienne silt      | ty clay loam, 0 to 1  | percent slopes         | NWI (                                 | Classification:                           | none                       |  |  |  |
| Are climatic/hydrologic   | conditions of the site  | typical for this time | e of the year?         | Yes (If                               | no, explain in remarks)                   |                            |  |  |  |
| Are vegetation            | , soil, o               | r hydrology           | significantly dis      | sturbed? A                            | re "normal circumstance                   | s" present? Yes            |  |  |  |
| Are vegetation            | , soil, o               | r hydrology           | naturally proble       | ematic? (                             | If needed, explain any ar                 | nswers in remarks.)        |  |  |  |
| SUMMARY OF FIN            | IDINGS Attach           | site map showing      | ng sampling p          | oint locatio                          | ns, transects, importa                    | ant features, etc.         |  |  |  |
| Hydrophytic vegeta        | ation present?          | No                    |                        |                                       |   |                            |  |  |  |
| Hydric soil present       | t?                      | Yes                   | Is the S               | Sampled Are                           | ea within a Wetland?                      | <sup>?</sup> No            |  |  |  |
| Indicators of wetla       | nd hydrology present?   | No                    |                        |                                       |   | 110                        |  |  |  |
| Remarks:                  |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
| HYDROLOGY                 | _                       |                       |                        |                                       |   |                            |  |  |  |
| Wetland Hydrology Ir      | ndicators:              |                       |                        |                                       |   |                            |  |  |  |
| Primary Indicators (mir   | nimum of one is requir  | ed; check all that a  | <u>ар</u>              | Seco                                  | ndary Indicators (minimu                  | um of two required)        |  |  |  |
| Surface Water (A1)        |                         | Aquatic Faun          | na (B13)               |                                       | Surface Soil Cracks (B                    | 6)                         |  |  |  |
| High Water Table (/       | A2)                     | Marl Deposits         | s (B15) <b>(LRR U)</b> | _                                     | Sparsely Vegetated Concave Surface (B8)   |                            |  |  |  |
| Saturation (A3)           |                         | Hydrogen Su           | ılfide Odor (C1)       | _                                     | Drainage Patterns (B10)                   |                            |  |  |  |
| Water Marks (B1)          |                         | Oxidized Rhi:         | zospheres on Liv       | vina _                                | Dry-Season Water Tab                      | ry-Season Water Table (C2) |  |  |  |
| Sediment Deposits         | (B2)                    | Roots (C3)            | Zoophoreo on En        | · · · · · · · · · · · · · · · · · · · | Moss Trim Lines (B16)                     |                            |  |  |  |
| Drift Deposits (B3)       |                         | Presence of I         | Reduced Iron (C        | 4)                                    | Crayfish Burrows (C8)                     |                            |  |  |  |
| Algal Mat or Crust (      | (B4)                    | Recent Iron F         | Reduction in Tilled    |                                       | Saturation Visible on Aerial Imagery (C9) |                            |  |  |  |
| Iron Deposits (B5)        |                         | Soils (C6)            | TOGGOTOTT ITT TIME     | _                                     | Geomorphic Position (D2)                  |                            |  |  |  |
| Inundation Visible of     | on Aerial Imagery (B7)  | Thin Muck Su          | urface (C7)            |                                       | Shallow Aquitard (D3)                     |                            |  |  |  |
| Water-Stained Leav        | ves (B9)                | Other (Explai         | in in Remarks)         | _                                     | FAC-Neutral Test (D5)                     |                            |  |  |  |
|                           |                         |                       |                        | _                                     | Sphagnum moss (D8)                        | (LRR T, U)                 |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
| Field Observations:       |                         |                       |                        |                                       |   |                            |  |  |  |
| Surface water present     | ? Yes                   | No X Depth            |                        |                                       | Wetland                                   |                            |  |  |  |
| Water table present?      | Yes                     |                       | (inches):              |                                       | Hydrology                                 | No                         |  |  |  |
| Saturation present?       | Yes                     | No X Depth            | (inches):              |                                       | Present?                                  |                            |  |  |  |
| (includes capillary fring | je)                     |                       |                        |                                       |   |                            |  |  |  |
| Describe recorded data    | a (stream gauge, mon    | itoring well, aerial  | photos, previou        | s inspections                         | ), if available:                          |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
| Remarks:                  |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |
|                           |                         |                       |                        |                                       |   |                            |  |  |  |

| <b>/EGETATION</b> Use scientific names of pla | ınts.         |              |           | Sampling Point:                          | DP9              |
|---|---------------|--------------|-----------|--|------------------|
|   | Absolute      | Dominant     | Indicator | Dominance Test Worksheet                 |                  |
| <u>Tree Stratum</u> (Plot size: 30 feet )     | % Cover       | Species      | Staus     | Number of Dominant                       |                  |
|   | 70 00101      | Ороско       | Otado     | Species that are OBL,                    |                  |
| 1   |               |              |           | FACW, or FAC:                            | 0 (A)            |
| 2   |               |              |           | Total Number of Dominant                 |                  |
| 3   |               |              |           | Species Across all Strata:               | 1 (B)            |
| 4   |               |              |           | Percent of Dominant Species              |                  |
| 5   |               |              |           | that are OBL, FACW, or                   |                  |
| 6   |               | -            |           | FAC:                                     | 0.00% (A/B       |
| 7   |               |              |           |  |                  |
| 8   |               |              |           |  |                  |
|   | 0             | = Total Cove |           |  |                  |
| 50% of total cover: 0                         |               | otal cover:  | 0         | Prevalence Index Worksheet               |                  |
| 30 % of total cover.                          | _ 20 /6 01 10 | nai covei.   |           |  |                  |
|   |               |              |           | Total % Cover of:                        |                  |
| Sapling/Shrub Stratum (Plot size: 30 feet     | _)            |              |           | OBL speciesx 1 =                         | 0                |
| 1   | _             |              |           | FACW species x 2 =                       | 0                |
| 2   |               |              |           | FAC species x 3 =                        | 0                |
| 3   |               |              |           | FACU species x 4 =                       | 0                |
| 4   |               |              |           | UPL species x 5 =                        | 0                |
| 5   |               |              |           | Column totals (A)                        | 0 (B)            |
| 6   |               |              |           | ``                                       | `                |
| 7   |               |              |           | Prevalence Index = B/A =                 |                  |
| 8   |               |              |           |  |                  |
| <u> </u>                                      | 0             | = Total Cove |           |  |                  |
|   |               |              |           | <u> </u>                                 |                  |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Hydrophytic Vegetation Indica            |                  |
|   |               |              |           | Rapid test for hydrophytic ve            | egetation        |
| Herb stratum (Plot size: 30 feet              | )             |              |           | Dominance test is >50%                   |                  |
| 1 Saccharum officinarum                       | _<br>15       | Υ            | FACU      | Prevalence index is ≤3.0*                |                  |
| 2   |               |              |           | Problematic hydrophytic                  |                  |
| 3   |               |              |           | vegetation* (explain)                    |                  |
| 4   |               |              |           | *Indicators of hydric soil and wetland h | hudrala au muat  |
| ·   |               |              |           | be present, unless disturbed or pr       |                  |
| 6   |               |              |           | Definitions of Four Vegetation           |                  |
| 7   |               |              |           |  |                  |
|   |               |              |           | Tree- Woody plants, excluding v          |                  |
|   |               |              |           | approximately 20 ft (6m) or more         | e in height and  |
| 9   |               |              |           | less than 3 in. (7.6 cm) DBH.            |                  |
| )   |               |              |           |  |                  |
| 1   |               |              |           | Sapling/Shrub - Woody plants,            | excluding vine   |
| 2   |               |              |           | less than 3 in. DBH and greater          | than 3.26 ft (1) |
|   | 15            | = Total Cove | r         | tall                                     |                  |
| 50% of total cover: 7.5                       | 20% of to     | otal cover:  | 3         | Herb - All herbaceous (non-woo           | ndy) plants      |
|   | _             | _            |           | including herbaceous vines, reg          |                  |
| Woody vine stratum (Plot size: 30 feet        | )             |              |           | and woody plants, except woody           |                  |
| <br>1   | <b>-</b> ′    |              |           | approximately 3 ft (1 m) in heigh        |                  |
| 2   |               |              |           | Woody vine - All woody vines, r          |                  |
| 3   | _             |              |           | height.                                  |                  |
| 4   |               |              |           |  |                  |
| <del>-</del> 5                                |               |              |           |  |                  |
| <u> </u>                                      |               | T. 1.C       |           | Hydrophytic                              | 1_               |
|   |               | = Total Cove |           |  | lo               |
| 50% of total cover: 0                         | 20% of to     | otal cover:  | 0         | Present?                                 |                  |
| Remarks: (If observed, list morphologica      | Ladantation   | s helow)     |           |  |                  |
| Tromaino. (ii observed, list morphologica     | auupiaiion    | o bolowj.    |           |  |                  |
|   |               |              |           |  |                  |
|   |               |              |           |  |                  |
|   |               |              |           |  |                  |
|   |               |              |           |  |                  |
|   |               |              |           |  |                  |
|   |               |              |           |  |                  |

| SOIL                |  |            |            |                           |  |                      |                         | Sampling Point:                               | : DP9   |  |  |  |
|---------------------|--|------------|------------|---------------------------|--|----------------------|-------------------------|---|---|--|--|--|
| Profile Des         | cription: (Describe                            | e to the c | depth need | led to d                  | locume   | ent the indic        | ator or confirm t       | he absence o                                  | f indicators.)  |  |  |  |
| Depth <u>Matrix</u> |  |            |            |                           | Redo   | x Features           |                         |   |   |  |  |  |
| (Inches)            | Color (moist)                                  | %          | Color (n   | Color (moist) % Type* Loc |  |                      |                         | Texture                                       | Remarks   |  |  |  |
| 0-8                 | 10YR 4/2                                       | 100        |            |                           |  |                      |                         | Silt loam                                     |   |  |  |  |
| 8-16                | 6 10YR 4/2 95 10YR 5/6 5 C                     |            |            | М                         | Clay   |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
| *Type: C = 0        | Concentration, D = [                           | Depletion  | , RM = Red | luced N                   | 1atrix, N  | 1S = Masked          | Sand Grains.            | **Location: P                                 | PL = Pore Lining, M = Matrix  |  |  |  |
| Hydric So           | oil Indicators:                                |            |            |                           |  |                      |                         | Indicators fo                                 | or Problematic Hydric Soils:  |  |  |  |
| Hist                | isol (A1)                                      |            |            | Polyva                    | alue Belo  | ow Surface (S        | 88) (LRR S, T, U)       | 1 cm Mu                                       | ck (A9) <b>(LRR O)</b>  |  |  |  |
| Hist                | ic Epipedon (A2)                               |            |            | Thin D                    | ark Sur  | face (S9) <b>(LR</b> | R S, T, U)              | 2 cm Muck (A10) <b>(LRR S)</b>                |   |  |  |  |
| Blac                | ck Histic (A3)                                 |            |            | Loam                      | y Mucky  | y Mineral (F1        | )                       | Reduced Vertic(F18) (outside MLRA 150A,B)     |   |  |  |  |
|                     | rogen Sulfide (A4)                             |            |            | _                         | -  | d Matrix (F2)        | )                       | Piedmont Floodplain Soils (F19) (LRR P, S, T) |   |  |  |  |
|                     | tified Layers (A5)                             |            |            | Deple                     | ted Mat  | trix (F3)            |                         | Anomolous Bright Loamy Soils (F20) (MLR       |   |  |  |  |
|                     | anic Bodies (A6) <b>(LF</b>                    |            |            | _                         |  | Surface (F6)         |                         | 153B)   |   |  |  |  |
|                     | n Mucky Mineral (A7                            |            | P, T, U)   | _                         |  | k Surface (F         | 7)                      | Red Parent Material (TF2)                     |   |  |  |  |
|                     | Muck Presence (A8) (LRR U)                     |            |            |                           | -  | ssions (F8)          |                         | Very Shallow Dark Surface (TF12)              |   |  |  |  |
|                     | n Muck (A9) (LRR P                             | -          |            | Marl (F10) <b>(LRR U)</b> |  |                      |                         | Other (explain in remarks)                    |   |  |  |  |
|                     | eleted Below Dark St                           | -          | 11)        | _                         |  | ric (F11) <b>(ML</b> | -                       | <b>T</b> \                                    |   |  |  |  |
|                     | ck Dark Surface (A1:                           | •          | A 450A\    | _                         | _  |                      | (F12) <b>(LRR O, P,</b> | indicators of rigurophytic vegeta             |   |  |  |  |
|                     | st Prairie Redox (A1                           |            |            | -                         |  | ce (F13) <b>(LR</b>  |                         |   | and weltand hydrology must be present unless disturbed or problematic |  |  |  |
|                     | dy Mucky Mineral (S                            |            | 0, 8)      | _                         |  | (F17) <b>(MLR</b> A  | -                       |   | •   |  |  |  |
|                     | dy Gleyed Matrix (S                            | 4)         |            | _                         | Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) |                      |                         |   |   |  |  |  |
|                     | dy Redox (S5)                                  |            |            | _                         | omolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)                           |                      |                         |   |   |  |  |  |
|                     | oped Matrix (S6)<br>k Surface (S7) <b>(LRR</b> | рет        | —          | - AHOH                    | olous D  | nigiii Loainy        | 30115 (F20) (WILK       | A 149A, 155C                                  | , 1330)   |  |  |  |
|                     | (Cr) (Eith                                     | , 0, 1,    |            |                           |  |                      |                         |   |   |  |  |  |
| Restrictive         | Layer (if observed                             | ):         |            |                           |  |                      |                         |   |   |  |  |  |
| Type:               |  |            |            |                           |  |                      | Hydric Soil             | Vaa   |   |  |  |  |
|                     | Depth (inches                                  | ):         |            |                           |  | •                    | Present?                | Yes   |   |  |  |  |
| Remarks:            |  |            |            |                           |  |                      |                         |   |   |  |  |  |
| Tromano.            |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |
|                     |  |            |            |                           |  |                      |                         |   |   |  |  |  |



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

| Project/Site            | Claiborne Plantation S     | ite Cit                     | y/County: W                       | hite Castle/Ib | erville   | Sampling Date:                            | 1/19/20        | 016           |  |
|-------------------------|----------------------------|-----------------------------|-----------------------------------|----------------|---|---|----------------|---------------|--|
| Applicant/Owner:        | Baton Rouge Area           | a Chamber (BRAC             | ) State:                          | Louisia        | na  | Sampling Point:                           | DP1            | 0             |  |
| Investigator(s):        | Christina Perez, K         | ale Wetekamm                | Section                           | , Township,    | Range:  | Section 15, Town                          | nship 10S, Ra  | nge 14E       |  |
| Landform (hillslope,    | terrace, etc.):            |                             | Local relief (d                   | concave, con   | ivex, none  | e): concave                               | Slope (%):     | 20            |  |
| Subregion (LRR or N     | MLRA): LRR O               | Lat: 30°1                   | 1'5.458"N                         | Long:          | 91  | 1°4'42.882"W                              | Datum:         | NAD83         |  |
| Soil Map Unit Name      | Gr: Gramercy silt          | y clay loam, 0 to 1         | percent slope                     | s NW           | /I Classifi   | cation:                                   | PFO1A          |               |  |
| Are climatic/hydrolog   | gic conditions of the site | typical for this time       | e of the year?                    | Yes            | (If no, exp   | olain in remarks)                         |                |               |  |
| Are vegetation          | , soil, o                  | r hydrology                 | significantly                     | disturbed?     | Are "nor  | mal circumstance                          | s" present?    | Yes           |  |
| Are vegetation          |                            | r hydrology                 | naturally prob                    |                | -   | ed, explain any ar                        |                | -             |  |
| SUMMARY OF F            | INDINGS Attach             | site map showi              | ng sampling                       | point locat    | tions, tra  | nsects, importa                           | ant features,  | etc.          |  |
| Hydrophytic veg         | •                          | Yes                         |                                   |                |   |   |                |               |  |
| Hydric soil prese       |                            | Yes                         | Is the                            | Sampled A      | Area with   | nin a Wetland?                            | No             |               |  |
| Indicators of wet       | tland hydrology present?   | ? <u>No</u>                 |                                   |                |   |   |                |               |  |
| Remarks:                |                            |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
| HYDROLOGY               |                            |                             |                                   |                |   |   |                |               |  |
| Wetland Hydrology       | Indicators:                |                             |                                   |                |   |   |                |               |  |
|                         | minimum of one is requir   | ed: check all that :        | an                                | So             | condary I   | Indicators (minimu                        | ım of two real | uired)        |  |
| Surface Water (A        | -                          | •                           |                                   | <u> </u>       | -   | •   |                | <u>Jireuj</u> |  |
|                         | •                          | Aquatic Faun                | าล (B13)<br>s (B15) <b>(LRR เ</b> | N              |   | face Soil Cracks (B                       |                | ~ (B9)        |  |
| High Water Table        | (A2)                       |                             |                                   |                |   | rsely Vegetated Co                        |                | ∌ (DO)        |  |
| Saturation (A3)         |                            | Hydrogen Su                 | ılfide Odor (C1)                  | )              |   | nage Patterns (B1)                        |                |               |  |
| Water Marks (B1)        |                            |                             | zospheres on l                    | _iving         |   | Season Water Tab                          |                |               |  |
| Sediment Deposit        |                            | Roots (C3)                  | Dedicand Iron (                   | (0.4)          |   | s Trim Lines (B16)                        |                |               |  |
| Drift Deposits (B3      |                            |                             | Reduced Iron (                    |                |   | yfish Burrows (C8)                        |                | (CO)          |  |
| Algal Mat or Crus       |                            | Recent Iron F<br>Soils (C6) | n Reduction in Tilled             |                |   | Saturation Visible on Aerial Imagery (C9) |                |               |  |
| Iron Deposits (B5       |                            | <del></del> ` ` ´           | ····fooo (C7)                     |                | Geomorphic Position (D2) Shallow Aguitard (D3)        |   |                |               |  |
|                         | e on Aerial Imagery (B7)   |                             |                                   |                |   |   |                |               |  |
| Water-Stained Le        | aves (B9)                  | Other (Explai               | in in Remarks)                    |                | X FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) |   |                |               |  |
|                         |                            |                             |                                   |                | Spri  | agrium moss (Do)                          | (LKK 1, U)     |               |  |
| Field Observations      | <br>:                      |                             |                                   |                |   |   |                |               |  |
| Surface water prese     | nt? Yes                    | No X Depth                  | (inches):                         |                |   | Wetland                                   |                |               |  |
| Water table present?    | ? Yes                      | No X Depth                  | (inches):                         |                |   | Hydrology                                 | No             |               |  |
| Saturation present?     | Yes                        | No X Depth                  | (inches):                         |                |   | Present?                                  |                |               |  |
| (includes capillary fri | nge)                       |                             |                                   |                |   |   |                |               |  |
| Describe recorded d     | ata (stream gauge, mon     | itoring well, aerial        | photos, previo                    | ous inspectio  | ns), if ava   | ailable:                                  |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
| Remarks:                |                            |                             |                                   |                |   |   |                |               |  |
| FAC Neutral Tes         | t=3:1                      |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |
|                         |                            |                             |                                   |                |   |   |                |               |  |

| <b>VEGETATION</b> Use scientific names of plan | nts.       |              |           | Sampling Point: DP10   |
|--|------------|--------------|-----------|--|
|  | Absolute   | Dominant     | Indicator | Dominance Test Worksheet   |
| <u>Tree Stratum</u> (Plot size: 30 feet )      | % Cover    | Species      | Staus     | Number of Dominant   |
|  |            | •            |           | Species that are OBL,  |
| 1 Celtis laevigata                             | 45         | <u>Y</u> Y   | FACW      | FACW, or FAC: 6 (A)  |
| 2 Acer rubrum                                  | 15         | <u> </u>     | FAC       | Total Number of Dominant   |
| 3  |            |              |           | Species Across all Strata: 7 (B)   |
| 4  |            |              |           | Percent of Dominant Species  |
| 5  |            |              |           | that are OBL, FACW, or   |
| 6  |            |              |           | FAC: 85.71% (A/B)  |
| <u></u>  |            |              |           |  |
| 8  |            |              |           |  |
|  | 60         | = Total Cove | r         |  |
| 50% of total cover: 30                         | 20% of to  | otal cover:  | 12        | Prevalence Index Worksheet   |
|  |            | _            |           | Total % Cover of:  |
| Sapling/Shrub Stratum (Plot size: 30 feet      | 1          |              |           | OBL species x 1 = 0  |
| 1 Sambucus nigra                               | 15         | Υ            | FACW      | FACW species x 2 = 0   |
|  | 10         | <u> </u>     | FAC       | FAC species x3 = 0   |
| 2 Quercus nigra<br>3 Ulmus americana           | 5          | N            | FAC       | FACU species $\begin{array}{c} x 3 = \\ x 4 = \\ \end{array}$  |
| 4 Cornus drummondii                            | 5          | - N          | FAC       | UPL species $x = 5 = 0$  |
| 5  |            |              | 1 40      |  |
| <u> </u>                                       |            |              |           | Column totals(A)(B)  |
| 7  |            |              |           | Provolence Index P/A   |
| 1  |            |              |           | Prevalence Index = B/A =   |
| 8  |            |              |           |  |
|  | 35         | = Total Cove | r         |  |
| 50% of total cover: 17.5                       | 20% of to  | otal cover:  | 7         | Hydrophytic Vegetation Indicators:   |
|  |            | _            |           | Rapid test for hydrophytic vegetation  |
| Herb stratum (Plot size: 30 feet               | )          |              |           | X Dominance test is >50%   |
| 1 Rubus trivialis                              | .′<br>15   | Υ            | FACU      | Prevalence index is ≤3.0*  |
| 2 Sambucus nigra                               | 10         | <u> </u>     | FACW      | Problematic hydrophytic  |
| 3 Viola sororia                                | 10         | <u> </u>     | FAC       | vegetation* (explain)  |
| 4 Sabal minor                                  | 5          | N            | FACW      |  |
| 5 Toxicodendron radicans                       | 5          | N            | FAC       | *Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic |
| 6 Quercus nigra                                | 2          | N            | FAC       | Definitions of Four Vegetation Strata  |
| 7  |            |              |           | _  |
| 0  |            |              |           | Tree- Woody plants, excluding woody vines,   |
| 8  |            |              |           | approximately 20 ft (6m) or more in height and   |
| 9  |            |              |           | less than 3 in. (7.6 cm) DBH.  |
| 10   |            |              |           |  |
| 11   |            |              |           | Sapling/Shrub - Woody plants, excluding vines,   |
| 12   |            |              |           | less than 3 in. DBH and greater than 3.26 ft (1m   |
|  |            | = Total Cove |           | tall   |
| 50% of total cover: 23.5                       | 20% of to  | otal cover:  | 9.4       | Herb - All herbaceous (non-woody) plants,  |
|  |            |              |           | including herbaceous vines, regardless of size,  |
| Woody vine stratum (Plot size: 30 feet         | )          |              |           | and woody plants, except woody vines, less than  |
| 1  |            |              |           | approximately 3 ft (1 m) in height.  |
| 2  |            |              |           | Woody vine - All woody vines, regardless of  |
| 3  |            |              |           | height.  |
| 4  | . <u> </u> |              |           |  |
| 5  |            |              |           | Hydrophytic  |
|  | 0 :        | = Total Cove |           | Vegetation Yes   |
| 50% of total cover: 0                          |            | otal cover:  | 0         | Present?   |
|  |            |              |           |  |
| Remarks: (If observed, list morphological      | adaptation | s below).    |           |  |
|  |            |              |           |  |
|  |            |              |           |  |
|  |            |              |           |  |
|  |            |              |           |  |
|  |            |              |           |  |
|  |            |              |           |  |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.    Depth   Matrix   Redox Features   Color (moist)   % Color (moist)   % Type*   Loc**   Texture | .)<br>Remarks                                 |  |  |  |
|---|---|--|--|--|
| (Inches) Color (moist) % Color (moist) % Type* Loc** Texture  | Remarks                                       |  |  |  |
| (Inches) Color (moist) % Color (moist) % Type* Loc** Texture  | Remarks                                       |  |  |  |
| 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 Lin  | ing M. Motriy                                 |  |  |  |
| *Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.   **Location: PL = Pore Lin  Hydric Soil Indicators:  Indicators for Problemat   |   |  |  |  |
| ·   | -   |  |  |  |
| Histisol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LR  | -   |  |  |  |
|   | -   |  |  |  |
|   | Piedmont Floodplain Soils (F19) (LRR P, S, T) |  |  |  |
|   | Anomolous Bright Loamy Soils (F20) (MLRA      |  |  |  |
| Organic Bodies (A6) (LRR P, T, U)  Redox Dark Surface (F6)  153B)   | amy cone (1 20) (m2101                        |  |  |  |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (  | TF2)  |  |  |  |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Su  | ,   |  |  |  |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (explain in rema   | arks)   |  |  |  |
| Depleted Below Dark Surface (A11)  Depleted Ochric (F11) (MLRA 151)   |   |  |  |  |
| Thick Dark Surface (A12)  Iron-Manganese Masses (F12) (LRR O, P, T)  *Indicators of   | of hydrophytic vegetation                     |  |  |  |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) and weltand  | hydrology must be presen                      |  |  |  |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)   | rbed or problematic                           |  |  |  |
| Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)   |   |  |  |  |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)  |   |  |  |  |
| Stripped Matrix (S6) Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)   |   |  |  |  |
| Dark Surface (S7) (LRR P, S, T, U)  |   |  |  |  |
| Restrictive Layer (if observed):  |   |  |  |  |
| Type: Hydric Soil Yes   |   |  |  |  |
| Depth (inches): Present?  |   |  |  |  |
| 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 Si   | ite City              | y/County: V         | /hite Castle/I | berville        | Sampling Date:       | 1/19/20        | 016           |
|-------------------------|---------------------------|-----------------------|---------------------|----------------|-----------------|----------------------|----------------|---------------|
| Applicant/Owner:        | Baton Rouge Area          | a Chamber (BRAC)      | ) State:            | Louisia        | ana             | Sampling Point:      | DP1            | 1             |
| Investigator(s):        | Christina Perez, Ka       | ale Wetekamm          | Section             | n, Township    | , Range:        | Section 15, Town     | nship 10S, Ra  | ange 14E      |
| Landform (hillslope, t  | errace, etc.):            |                       | Local relief (      | concave, co    | nvex, non       | e): none             | Slope (%):     | 0             |
| Subregion (LRR or M     | ILRA): LRR O              | Lat: 30°1             | I1'5.962"N          | Long:          | 9               | 1°4'44.534"W         | Datum:         | NAD83         |
| Soil Map Unit Name_     | Gr: Gramercy silty        | y clay loam, 0 to 1   | percent slope       | es N\          | WI Classif      | ication:             | PFO1A          |               |
| Are climatic/hydrolog   | ic conditions of the site | typical for this time | e of the year?      | Yes            | (If no, exp     | plain in remarks)    |                |               |
| Are vegetation          | , soil, o                 | r hydrology           | significantly       | disturbed?     | Are "no         | rmal circumstance    | s" present?    | Yes           |
| Are vegetation          | , soil, o                 | r hydrology           | naturally pro       | blematic?      | (If need        | led, explain any ar  | nswers in rem  | arks.)        |
| SUMMARY OF F            | NDINGS Attach             | site map showing      | ng sampling         | point loca     | ations, tra     | ansects, importa     | ant features,  | , etc.        |
| Hydrophytic vege        | etation present?          | Yes                   |                     |                |                 |                      |                |               |
| Hydric soil prese       | nt?                       | Yes                   | ls the              | e Sampled      | Area witl       | hin a Wetland?       | Yes            |               |
| Indicators of wetl      | and hydrology present?    | Yes                   |                     | , capca.       |                 |                      | 100            |               |
| Damada                  |                           |                       |                     |                |                 |                      |                |               |
| Remarks:                |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
| HYDROLOGY               |                           |                       |                     |                |                 |                      |                |               |
| Wetland Hydrology       |                           |                       |                     |                |                 |                      |                |               |
| Primary Indicators (m   | ninimum of one is requir  | ed; check all that a  | <u>ap</u>           | <u>S</u>       | <u>econdary</u> | Indicators (minimu   | ım of two requ | <u>uired)</u> |
| X Surface Water (A      | 1)                        | Aquatic Faun          | , ,                 |                | Sur             | face Soil Cracks (B  | 6)             |               |
| X High Water Table      | (A2)                      | Marl Deposits         | s (B15) <b>(LRR</b> | U)             | Spa             | arsely Vegetated Co  | oncave Surface | e (B8)        |
| X Saturation (A3)       |                           | Hydrogen Su           | ılfide Odor (C1     | )              | Dra             | inage Patterns (B1   | 0)             |               |
| X Water Marks (B1)      |                           | Oxidized Rhiz         | zospheres on        | Living         | Dry             | -Season Water Tab    | ole (C2)       |               |
| X Sediment Deposit      | s (B2)                    | Roots (C3)            |                     |                | Mos             | ss Trim Lines (B16)  |                |               |
| Drift Deposits (B3      | )                         | Presence of I         | Reduced Iron        | (C4)           | Cra             | yfish Burrows (C8)   |                |               |
| Algal Mat or Crust      | (B4)                      | Recent Iron F         | Reduction in T      | illed          | Sat             | uration Visible on A | erial Imagery  | (C9)          |
| Iron Deposits (B5)      | l                         | Soils (C6)            |                     |                | Geo             | omorphic Position (  | D2)            |               |
| Inundation Visible      | on Aerial Imagery (B7)    | Thin Muck Su          | urface (C7)         |                | Sha             | allow Aquitard (D3)  |                |               |
| X Water-Stained Le      | aves (B9)                 | Other (Explai         | in in Remarks)      | )              |                 | C-Neutral Test (D5)  |                |               |
|                         |                           |                       |                     |                | Sph             | nagnum moss (D8)     | (LRR T, U)     |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
| Field Observations:     |                           |                       |                     |                |                 |                      |                |               |
| Surface water preser    |                           | No Depth              | (inches):           | 4              |                 | Wetland              |                |               |
| Water table present?    | Yes X                     | No Depth              | (inches):           | 0              |                 | Hydrology            | Yes            |               |
| Saturation present?     | Yes X                     | No Depth              | (inches):           | 0              |                 | Present?             |                |               |
| (includes capillary fri | nge)                      |                       |                     |                |                 |                      |                |               |
| Describe recorded da    | ata (stream gauge, mon    | itoring well, aerial  | photos, previ       | ous inspecti   | ons), if av     | ailable:             |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
| Remarks:                |                           |                       |                     |                |                 |                      |                |               |
| FAC-Neutral Tes         | t: 4:0                    |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |
|                         |                           |                       |                     |                |                 |                      |                |               |

| EGETATION Use scientific names of plan    | nts.       |              |           | Sampling Point: DP11                                  |
|---|------------|--------------|-----------|---|
|   | Absolute   | Dominant     | Indicator | Dominance Test Worksheet                              |
| <u>Tree Stratum</u> (Plot size: 30 feet ) | % Cover    | Species      | Staus     | Number of Dominant Species that are OBL,              |
| 1 Celtis laevigata                        | 30         | Υ            | FACW      | FACW, or FAC: 8 (A)                                   |
| 2 Acer rubrum                             | 20         | <u>Y</u>     | FAC       | Total Number of Dominant                              |
| 3 Quercus nigra                           | 15         | <u> </u>     | FAC       | Species Across all Strata: 8 (B)                      |
| 4 Fraxinus pennsylvanica                  | 5          | N            | FACW      |   |
| 5   |            |              | TACVV     | Percent of Dominant Species                           |
|   |            |              |           | that are OBL, FACW, or                                |
| 6   |            |              |           | FAC: 100.00% (A/B)                                    |
| <i>'</i>                                  |            |              |           |   |
| 8   |            |              |           |   |
|   | 70         | = Total Cove | r         |   |
| 50% of total cover: 35                    | 20% of to  | otal cover:  | 14        | Prevalence Index Worksheet                            |
|   | -          |              |           | Total % Cover of:                                     |
|   |            |              |           |   |
| Sapling/Shrub Stratum (Plot size: 30 feet | _)         |              |           | OBL species x 1 = 0                                   |
| 1 Sabal minor                             | 20         | <u> </u>     | FACW      | FACW species x 2 = 0                                  |
| 2 Celtis laevigata                        | 10         | Υ            | FACW      | FAC species x 3 = 0                                   |
| 3 Ulmus americana                         | 5          | N            | FAC       | FACU species x 4 = 0                                  |
| 4 Diospyros virginiana                    | 5          | N            | FAC       | UPL species x 5 = 0                                   |
| 5   |            |              |           | Column totals (A) 0 (B)                               |
| 6   |            |              |           |   |
| 7   |            |              |           | Prevalence Index = B/A =                              |
| 8   |            |              |           |   |
|   | 40         | = Total Cove |           |   |
| 500/ // /                                 |            |              |           |   |
| 50% of total cover: 20                    | 20% of to  | otal cover:  | 8         | Hydrophytic Vegetation Indicators:                    |
|   |            |              |           | Rapid test for hydrophytic vegetation                 |
| Herb stratum (Plot size: 30 feet          | )          |              |           | X Dominance test is >50%                              |
| 1 Panicum hemitomon                       | 35         | Υ            | OBL       | Prevalence index is ≤3.0*                             |
| 2 Brunnichia ovata                        | 5          | N            | FACW      | Problematic hydrophytic                               |
| 3 Cocculus carolinus                      | 5          | N            | FAC       | vegetation* (explain)                                 |
| 4   |            |              |           | *Indicators of hydric soil and wetland hydrology must |
| 5   |            |              |           | be present, unless disturbed or problematic           |
| 6   |            |              |           | Definitions of Four Vegetation Strata                 |
| 7   |            |              |           |   |
| ·   |            |              |           | Tree- Woody plants, excluding woody vines,            |
| 8   |            |              |           | approximately 20 ft (6m) or more in height and        |
| 9   |            |              |           | less than 3 in. (7.6 cm) DBH.                         |
| 0   |            |              |           |   |
| 1   |            |              |           | Sapling/Shrub - Woody plants, excluding vines         |
| 2   |            |              |           | less than 3 in. DBH and greater than 3.26 ft (1m      |
|   | 45         | = Total Cove | r         | tall  |
| 50% of total cover: 22.5                  | 20% of to  | otal cover:  | 9         | Herb - All herbaceous (non-woody) plants,             |
|   | -          |              |           | including herbaceous vines, regardless of size,       |
| Woody vine stratum (Plot size: 30 feet    | )          |              |           | and woody plants, except woody vines, less tha        |
| 1 Toxicodendron radicans                  | .,<br>15   | Υ            | FAC       | approximately 3 ft (1 m) in height.                   |
| 2 Brunnichia ovata                        | 10         | <u>Y</u>     | FACW      | Woody vine - All woody vines, regardless of           |
| 3   |            |              |           | height.   |
| 4   |            |              |           |   |
| 5   |            |              |           |   |
| <u> </u>                                  | · ——       |              |           | Hydrophytic   |
|   | 25         | = Total Cove | r         | Vegetation Yes  |
| 50% of total cover: 12.5                  | 20% of to  | otal cover:  | 5         | Present?  |
|   | adantation | e helow)     |           |   |
| Remarks: (If observed list marphological  |            | o DCIUW).    |           |   |
| Remarks: (If observed, list morphological | adaptation |              |           |   |
| Remarks: (If observed, list morphological | adaptation | ,            |           |   |
| Remarks: (If observed, list morphological | adaptation | ,            |           |   |
| Remarks: (If observed, list morphological | adaptation | ,            |           |   |
| Remarks: (If observed, list morphological | adaptation | ,            |           |   |

| SOIL          |                              |                |            |         |                 |                        | ,  | Sampling Point:                        | DP11                                   |  |  |  |
|---------------|------------------------------|----------------|------------|---------|-----------------|------------------------|--|--|--|--|--|--|
| Profile Desc  | cription: (Describe          | to the d       | lepth need | ded to  | docume          | ent the indic          | ator or confirm t  | he absence of                          | f indicators.)                         |  |  |  |
| Depth         | <u>Matrix</u>                |                |            |         | Redo            | x Features             |  |  |  |  |  |  |
| (Inches)      | Color (moist)                | %              | Color (r   | noist)  | %               | Type*                  | Loc**  | Texture                                | Remarks                                |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
| *Type: C = C  | Concentration, D = De        | epletion,      | , RM = Re  | duced N | Matrix, M       | 1S = Masked            | Sand Grains.   | **Location: P                          | L = Pore Lining, M = Matrix            |  |  |  |
| Hydric So     | il Indicators:               |                |            |         |                 |                        |  | Indicators fo                          | r Problematic Hydric Soils:            |  |  |  |
| Histis        | sol (A1)                     |                |            | Polyv   | alue Belo       | ow Surface (S          | 88) (LRR S, T, U)  | 1 cm Mud                               | ck (A9) <b>(LRR O)</b>                 |  |  |  |
| Histic        | c Epipedon (A2)              |                |            | Thin [  | Dark Sur        | face (S9) <b>(LR</b>   | R S, T, U)   | 2 cm Mud                               | ck (A10) <b>(LRR S)</b>                |  |  |  |
| Black         | k Histic (A3)                |                |            | Loam    | y Mucky         | y Mineral (F1          | )  | Reduced '                              | Vertic(F18) (outside MLRA 150A,B)      |  |  |  |
| Hydr          | rogen Sulfide (A4)           |                |            | Loam    | y Gleye         | d Matrix (F2)          | )  | Piedmont                               | t Floodplain Soils (F19) (LRR P, S, T) |  |  |  |
| Strat         | tified Layers (A5)           |                |            | Deple   | eted Mat        | trix (F3)              |  |  | us Bright Loamy Soils (F20) (MLRA      |  |  |  |
| Orga          | anic Bodies (A6) <b>(LRI</b> | R P, T, I      | J)         | Redo    | x Dark S        | Surface (F6)           |  | 153B)                                  |  |  |  |  |
| 5 cm          | Mucky Mineral (A7)           | (LRR I         | P, T, U)   | Deple   | eted Dar        | k Surface (F           | 7)   | Red Pare                               | ent Material (TF2)                     |  |  |  |
| Mucl          | k Presence (A8) <b>(LR</b> I | R U)           |            | Redo    | x Depre         | ssions (F8)            | Very Shallow Dark Surface (TF12)                                 |  |  |  |  |  |
| 1 cm          | Muck (A9) (LRR P,            | T)             |            | Marl (  | (F10) <b>(L</b> | RR U)                  |  | X Other (explain in remarks)           |  |  |  |  |
| Depl          | eted Below Dark Sur          | face (A        | 11)        | Deple   | ted Och         | ric (F11) <b>(ML</b> I | RA 151)  |  |  |  |  |  |
| Thick         | k Dark Surface (A12)         | )              | _          | Iron-N  | Mangane         | ese Masses             | (F12) <b>(LRR O, P, T)</b> *Indicators of hydrophytic vegetation |  |  |  |  |  |
| Coas          | st Prairie Redox (A16        | 6) (MLR        | A 150A)    | Umbr    | ic Surfa        | ce (F13) <b>(LR</b>    | R P, T, U)   | and weltand hydrology must be present, |  |  |  |  |
| Sand          | dy Mucky Mineral (S1         | I) <b>(LRR</b> | O, S)      | _ Delta | Ochric          | (F17) <b>(MLR</b>      | unless disturbed or problematic                                  |  |  |  |  |  |
| Sand          | dy Gleyed Matrix (S4         | )              | _          | _Redu   | ced Ver         | tic (F18) <b>(ML</b>   | MLRA 150A, 150B)   |  |  |  |  |  |
| Sand          | dy Redox (S5)                |                | _          | _ Piedn | nont Flo        | odplain Soils          | ls (F19) <b>(MLRA 149A)</b>                                      |  |  |  |  |  |
|               | ped Matrix (S6)              |                |            | Anom    | nolous B        | right Loamy            | Soils (F20) (MLRA 149A, 153C, 153D)                              |  |  |  |  |  |
| Dark          | Surface (S7) (LRR I          | P, S, T,       | U)         |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        | 7  |  |  |  |  |  |
| Restrictive I | Layer (if observed):         |                |            |         |                 |                        |  |  |  |  |  |  |
| Type:         |                              |                |            |         |                 | <u>-</u>               | Hydric Soil  | l Yes                                  |  |  |  |  |
|               | Depth (inches):              |                |            |         |                 | <u>-</u>               | Present?   |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
| Remarks:      |                              |                |            |         |                 |                        |  |  |  |  |  |  |
| No soil p     | rofile was taken d           | lue to i       | nundatio   | n. The  | e soils a       | are presum             | ed hyrdic due  | to the prese                           | nce of wetland hydrology               |  |  |  |
| indicator     | rs and the domina            | ince of        | hydroph    | ytic ve | egetatio        | on.                    |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |
|               |                              |                |            |         |                 |                        |  |  |  |  |  |  |



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 Si    | te Cit                | y/County: V         | Vhite Castle/Ib | erville     | Sampling Date:           | 1/20/2016     |          |
|------------------------|----------------------------|-----------------------|---------------------|-----------------|-------------|--------------------------|---------------|----------|
| Applicant/Owner:       | Baton Rouge Area           | Chamber (BRAC         | ) State:            | Louisiar        | na          | Sampling Point:          | DP1           | 12       |
| Investigator(s):       | Christina Perez, Ka        | ale Wetekamm          | Sectio              | n, Township, I  | Range:      | Section 15, Town         | ship 10S, Ra  | ange 14E |
| Landform (hillslope,   | terrace, etc.):            |                       | Local relief        | (concave, con   | vex, none   | e): non                  | Slope (%):_   | 0        |
| Subregion (LRR or      | MLRA): LRR O               | Lat: 30°1′            | 1'15.201"N          | Long:           | 91          | 1°4'27.238"W             | Datum:        | NAD83    |
| Soil Map Unit Name     | Sb: Schrieve               | r clay, 0 to 1 perce  | ent slopes          | NW              | 'l Classifi | cation:                  | none          |          |
| Are climatic/hydrolo   | gic conditions of the site | typical for this time | e of the year?      | Yes (           | If no, exp  | olain in remarks)        |               |          |
| Are vegetation         | , soil , o                 | r hydrology           | significantly       | disturbed?      | Are "nor    | mal circumstances        | s" present?   | Yes      |
| Are vegetation         | , soil , o                 | r hydrology           | naturally pro       | blematic?       | (If need    | ed, explain any an       | swers in rem  | narks.)  |
| SUMMARY OF F           | FINDINGS Attach            | site map showii       | ng sampling         | g point locat   | ions, tra   | insects, importa         | nt features   | , etc.   |
| Hydrophytic veg        | getation present?          | Yes                   |                     |                 |             |                          |               |          |
| Hydric soil pres       | ent?                       | Yes                   | le th               | a Samplad A     | roa with    | nin a Wetland?           | Yes           |          |
| Indicators of we       | etland hydrology present?  | Yes                   | 15 (1)              | e Sampleu A     | irea witii  | iiii a vvetiaiiu:        | 163           |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
| Remarks:               |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
| I                      |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
| HYDROLOGY              |                            |                       |                     |                 |             |                          |               |          |
| Wetland Hydrology      | y Indicators:              |                       |                     |                 |             |                          |               |          |
| Primary Indicators (   | minimum of one is require  | ed; check all that a  | <u>ap</u>           | Sec             | condary I   | ndicators (minimu        | m of two req  | uired)   |
| X Surface Water (A     | <del>\</del> 1)            | Aquatic Faun          | na (B13)            |                 | Surf        | ace Soil Cracks (Bo      | 6)            |          |
| High Water Tabl        | e (A2)                     | Marl Deposits         | s (B15) <b>(LRR</b> | U)              | Spa         | rsely Vegetated Co       | ncave Surfac  | e (B8)   |
| X Saturation (A3)      |                            | Hydrogen Su           | ılfide Odor (C      | 1)              | <br>Drai    | nage Patterns (B10       | ))            |          |
| Water Marks (B1        | 1)                         | Ovidized Phi          | zospheres on        | Living          | Dry-        | Season Water Tab         | le (C2)       |          |
| Sediment Depos         | sits (B2)                  | Roots (C3)            | zospileies on       | Living          | Mos         | s Trim Lines (B16)       |               |          |
| Drift Deposits (B      |                            | Presence of I         | Reduced Iron        | (C4)            |             | rfish Burrows (C8)       |               |          |
| X Algal Mat or Cru     |                            |                       |                     |                 |             | uration Visible on A     | erial Imagery | (C9)     |
| Iron Deposits (B       |                            | Soils (C6)            | Reduction in T      | illea           |             | morphic Position (E      |               | ,        |
|                        | le on Aerial Imagery (B7)  | Thin Muck Su          | urface (C7)         |                 |             | llow Aquitard (D3)       | ,             |          |
| Water-Stained L        |                            |                       | in in Remarks       | )               |             | -Neutral Test (D5)       |               |          |
|                        | eaves (D9)                 | Other (Explai         | iii iii ixemarks    | ,               |             | agnum moss (D8) <b>(</b> | IRRT II)      |          |
|                        |                            |                       |                     |                 |             | agnam moos (Do) (        | LIXIX 1, 0)   |          |
| Field Observations     |                            |                       |                     |                 |             |                          |               |          |
|                        |                            | No. Donath            | (:)                 | 1               |             |                          |               |          |
| Surface water prese    |                            |                       | (inches):           | 1               |             | Wetland                  | Vaa           |          |
| Water table present    |                            |                       | (inches):           |                 |             | Hydrology                | Yes           |          |
| Saturation present?    |                            | No Depth              | (inches):           | 0               |             | Present?                 |               |          |
| (includes capillary fi |                            |                       |                     |                 |             |                          |               |          |
| Describe recorded of   | data (stream gauge, moni   | itoring well, aerial  | photos, previ       | ous inspection  | ns), if ava | ailable:                 |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
| Remarks:               |                            |                       |                     |                 |             |                          |               |          |
| FAC-Neutral Te         | st: 2:0                    |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |
|                        |                            |                       |                     |                 |             |                          |               |          |

| /EGETATION Use scientific names of pla    | nts.       |              |           | Sampling Point: DP12  |
|---|------------|--------------|-----------|---|
|   | Absolute   | Dominant     | Indicator | Dominance Test Worksheet  |
| <u>Tree Stratum</u> (Plot size: 30 feet ) | % Cover    | Species      | Staus     | Number of Dominant  |
|   | 70 00101   | Ороско       | Olado     | Species that are OBL,   |
| 1   |            |              |           | FACW, or FAC: 3 (A)   |
| 2   |            |              |           | Total Number of Dominant  |
| 3   | _          |              |           | Species Across all Strata: 4 (B)  |
| 4   | _          |              |           | Percent of Dominant Species   |
| 5   | _          |              |           | that are OBL, FACW, or  |
| 6   |            |              |           | FAC: 75.00% (A/B)   |
| 7   |            |              |           |   |
| 8   |            |              |           |   |
|   | 0          | = Total Cove | r         |   |
| 50% of total cover: 0                     | 20% of to  | otal cover:  | 0         | Prevalence Index Worksheet  |
|   |            | _            |           |   |
|   |            |              |           | Total % Cover of:   |
| apling/Shrub Stratum (Plot size: 30 feet  | _)         |              |           | OBL species x 1 =0  |
| 1 Desmodium paniculatum                   | 45         | Y            | FACU      | FACW species x 2 = 0  |
| 2   |            |              |           | FAC species x 3 = 0   |
| 3   |            |              |           | FACU species x 4 = 0  |
|   |            |              |           | UPL species x 5 = 0   |
|   |            |              |           | Column totals (A) 0 (B)   |
|   |            |              |           |   |
|   |            |              |           | Prevalence Index = B/A =  |
|   |            |              |           |   |
|   | 45         | = Total Cove |           |   |
| E00/ of total covery 22 E                 |            | otal cover:  |           | Hydronbytic Vegetation Indicators   |
| 50% of total cover: 22.5                  | - 20% OF R | otai cover.  | 9         | Hydrophytic Vegetation Indicators:  |
|   |            |              |           | Rapid test for hydrophytic vegetation   |
| Herb stratum (Plot size: 30 feet          | _)         |              |           | X Dominance test is >50%  |
| 1 Commelina diffusa                       | 20         | Y            | FACW      | Prevalence index is ≤3.0*   |
| 2 Rumex crispus                           | 10         | <u> </u>     | FAC       | Problematic hydrophytic   |
| B Caperonia palustris                     | 10         | Y            | FACW      | vegetation* (explain)   |
| 4 Cyperus rotundus                        | 5          | N            | FAC       | *Indicators of hydric soil and wetland hydrology must   |
| 5   |            |              |           | be present, unless disturbed or problematic   |
| 3   |            |              |           | Definitions of Four Vegetation Strata   |
| ,   |            |              |           | Tree Woody plants, evaluding woody vines  |
| 3   | _          |              |           | <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.   |
|   |            |              |           | loos than 5 m. (7.5 om) BBM.  |
| <u> </u>                                  | -          |              |           |   |
|   |            |              |           | Sapling/Shrub - Woody plants, excluding vines,  |
|   |            | = Total Cove |           | less than 3 in. DBH and greater than 3.26 ft (1m)   |
| EOO/ of total account 22 E                |            |              |           | tall  |
| 50% of total cover: 22.5                  | 20% OF to  | otal cover:  | 9         | Herb - All herbaceous (non-woody) plants,   |
| M. J. |            |              |           | including herbaceous vines, regardless of size,   |
| Noody vine stratum (Plot size: 30 feet    | _)         |              |           | and woody plants, except woody vines, less than   |
|   | _          |              |           | approximately 3 ft (1 m) in height.   |
| 2   | _          |              |           | Woody vine - All woody vines, regardless of   |
| 3   | _          |              |           | height.   |
| 1   | _          |              |           |   |
| 5   |            |              |           | Hydrophytic   |
|   | 0          | = Total Cove | <br>r     | Vegetation Yes  |
| 50% of total cover: 0                     | 20% of to  | otal cover:  | 0         | Present?  |
|   |            |              |           |   |
| Remarks: (If observed, list morphological | adaptation | s below).    |           |   |
| -   |            |              |           |   |
|   |            |              |           |   |
|   |            |              |           |   |
|   |            |              |           |   |
|   |            |              |           |   |
|   |            |              |           |   |

| SOIL         |  |            |                |          |                |                        |  | Sampling Point:  | DP12                              |  |  |
|--------------|--|------------|----------------|----------|----------------|------------------------|--|--|-----------------------------------|--|--|
| Profile Des  | cription: (Describe                            | e to the c | lepth need     | led to d | locume         | ent the indic          | ator or confirm t                                  | he absence o   | f indicators.)                    |  |  |
| Depth        | Matrix   |            |                |          | Redo           | x Features             |  |  |                                   |  |  |
| (Inches)     | Color (moist)                                  | %          | Color (n       | noist)   | %              | Type*                  | Loc**  | Texture  | Remarks                           |  |  |
| 0-9          | 10YR 4/1                                       | 100        |                |          |                |                        |  | Silty Clay   |                                   |  |  |
| 9-16         | 10YR 4/1                                       | 80         | 10YR           | 5/6      | 20             | С                      | М  | Clay   |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
| *Type: C = 0 | Concentration, D = [                           | Depletion  | , RM = Red     | duced N  | 1atrix, N      | 1S = Masked            | Sand Grains.                                       | **Location: P  | PL = Pore Lining, M = Matrix      |  |  |
| Hydric So    | oil Indicators:                                |            |                |          |                |                        |  | Indicators fo  | or Problematic Hydric Soils:      |  |  |
| Hist         | isol (A1)                                      |            |                | Polyva   | alue Belo      | ow Surface (S          | 88) (LRR S, T, U)                                  | 1 cm Mu  | ck (A9) <b>(LRR O)</b>            |  |  |
| Hist         | ic Epipedon (A2)                               |            |                | _ Thin [ | ark Sur        | face (S9) <b>(LR</b>   | R S, T, U)   | 2 cm Mu  | ck (A10) <b>(LRR S)</b>           |  |  |
|              | ck Histic (A3)                                 |            |                | Loam     | y Mucky        | y Mineral (F1          | )  | Reduced  | Vertic(F18) (outside MLRA 150A,B) |  |  |
|              | rogen Sulfide (A4)                             |            |                | _        | -              | d Matrix (F2)          | )  | Piedmont Floodplain Soils (F19) (LRR P, S, T)  |                                   |  |  |
|              | tified Layers (A5)                             |            |                | _        | ted Mat        |                        |  | Anomolous Bright Loamy Soils (F20) (MLR.   |                                   |  |  |
|              | anic Bodies (A6) <b>(LF</b>                    |            | _              | _        |                | Surface (F6)           |  | 153B)  |                                   |  |  |
|              | n Mucky Mineral (A7                            |            | P, T, U)       | _        |                | k Surface (F           | 7)   |  | ent Material (TF2)                |  |  |
|              | ck Presence (A8) <b>(LI</b>                    | -          |                | _        | -              | ssions (F8)            |  | Very Shallow Dark Surface (TF12)   |                                   |  |  |
|              | n Muck (A9) (LRR P                             | -          | <u> </u>       | _        | F10) <b>(L</b> | -                      | 54.454)  | Other (explain in remarks)   |                                   |  |  |
|              | eleted Below Dark Si                           | -          | <sup>11)</sup> | _        |                | ric (F11) <b>(ML</b> l | -  | *Indicators of hydrophytic vegetation and weltand hydrology must be pre- unless disturbed or problematic |                                   |  |  |
|              | ck Dark Surface (A1:                           | •          | A 450A)        | _        | _              |                        | (F12) <b>(LRR O, P,</b>                            |  |                                   |  |  |
|              | st Prairie Redox (A1                           |            |                | _        |                | ce (F13) <b>(LR</b>    | -  |  |                                   |  |  |
|              | dy Mucky Mineral (S                            |            | 0, 8)          | _        |                | (F17) <b>(MLR</b> A    | •  |  |                                   |  |  |
|              | dy Gleyed Matrix (S                            | 4)         |                | _        |                |                        | .RA 150A, 150B)                                    | 0.4.\  |                                   |  |  |
|              | dy Redox (S5)                                  |            |                | _        |                | •                      | s (F19) <b>(MLRA 14</b><br>Soils (F20) <b>(MLR</b> | •  | 1520)                             |  |  |
|              | oped Matrix (S6)<br>k Surface (S7) <b>(LRR</b> | рет        |                | _ Alloll | olous D        | nigiii Loainy          | 30115 (F20) (WILK                                  | A 149A, 155C   | , 1330)                           |  |  |
| Baii         | (Cr) (Little                                   | , 0, 1,    |                |          |                |                        |  |  |                                   |  |  |
| Restrictive  | Layer (if observed                             | ):         |                |          |                |                        |  |  |                                   |  |  |
| Type:        |  |            |                |          |                |                        | Hydric Soil  | Vaa  |                                   |  |  |
|              | Depth (inches                                  | ):         |                |          |                | -                      | Present?   | Yes  |                                   |  |  |
| Remarks:     |  |            |                |          |                |                        |  |  |                                   |  |  |
| rtomanto.    |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |
|              |  |            |                |          |                |                        |  |  |                                   |  |  |



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 S     | Site Cit                                       | y/County: <u>\</u>  | White Castle/I            | lberville   | Sampling Date:        | 1/20/2        | 016      |
|-------------------------|----------------------------|--|---------------------|---------------------------|-------------|-----------------------|---------------|----------|
| Applicant/Owner:        | Baton Rouge Area           | a Chamber (BRAC                                | ) State:            | Louisi                    | ana         | Sampling Point:       | DP1           | 3        |
| Investigator(s):        | Christina Perez, K         | Cale Wetekamm                                  | Sectio              | n, Township               | , Range:    | Section 15, Town      | nship 10S, Ra | ange 14E |
| Landform (hillslope,    | terrace, etc.):            |  | Local relief        | (concave, co              | nvex, non   | e): convex            | Slope (%):    | 5        |
| Subregion (LRR or N     | MLRA): LRR O               | Lat: 30°1′                                     | 1'15.537"N          | Long:                     | 9           | 1°4'25.587"W          | Datum:        | NAD83    |
| Soil Map Unit Name      | Sb: Schrieve               | er clay, 0 to 1 perce                          | ent slopes          | N\                        | WI Classif  | ication:              | none          |          |
| Are climatic/hydrolog   | gic conditions of the site | typical for this time                          | e of the year?      | ? Yes                     | (If no, exp | plain in remarks)     |               |          |
| Are vegetation          | , soil , c                 | or hydrology                                   | significantly       | disturbed?                | Are "no     | rmal circumstance     | s" present?   | Yes      |
| Are vegetation          | , soil , c                 | or hydrology                                   | naturally pro       | blematic?                 | (If need    | led, explain any aı   | nswers in rem | narks.)  |
| SUMMARY OF F            | INDINGS Attach             | n site map showii                              | ng samplin          | g point loca              | ations, tra | ansects, importa      | ant features  | , etc.   |
| Hydrophytic veg         | etation present?           | No   |                     |                           |             |                       |               |          |
| Hydric soil prese       | nt?                        | No   | ls th               | e Samnled                 | Area with   | hin a Wetland?        | No            |          |
| Indicators of wet       | land hydrology present     | ? <u>No</u>                                    | 13 (11              | c oampica                 | Alca Will   | ini a Wellana         | 140           |          |
|                         |                            |  |                     |                           |             |                       |               |          |
| Remarks:                |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
| HYDROLOGY               |                            |  |                     |                           |             |                       |               |          |
| Wetland Hydrology       | Indicators:                |  |                     |                           |             |                       |               |          |
| Primary Indicators (n   | ninimum of one is requi    | red; check all that a                          | <u>ap</u>           | <u>s</u>                  | econdary    | Indicators (minimu    | um of two req | uired)   |
| Surface Water (A        | 1)                         | Aquatic Faun                                   | na (B13)            |                           | Sur         | face Soil Cracks (E   | 36)           |          |
| High Water Table        | (A2)                       | Marl Deposits                                  | s (B15) <b>(LRR</b> | U)                        | Spa         | arsely Vegetated Co   | oncave Surfac | e (B8)   |
| Saturation (A3)         | . ,                        | Hydrogen Su                                    | Ilfide Odor (C      | ) Drainage Patterns (B10) |             |                       |               |          |
| Water Marks (B1)        | )                          | <del></del> ·                                  |                     |                           |             | -Season Water Tal     |               |          |
| Sediment Deposi         | ts (B2)                    | Roots (C3)                                     | zospheres on        | Living                    |             | ss Trim Lines (B16)   |               |          |
| Drift Deposits (B3      |                            | Presence of I                                  | Reduced Iron        | (C4)                      |             | yfish Burrows (C8)    |               |          |
| Algal Mat or Crus       |                            | December 1                                     | Reduction in T      | ` ′                       |             | uration Visible on A  |               | (C9)     |
| Iron Deposits (B5       |                            | Soils (C6)                                     | Reduction in 1      | illea                     |             | omorphic Position (   | • •           | ` ,      |
| `                       | on Aerial Imagery (B7)     | Thin Muck Su                                   | urface (C7)         |                           |             | allow Aquitard (D3)   | ,             |          |
| Water-Stained Le        |                            |  | in in Remarks       | )                         |             | C-Neutral Test (D5)   | 1             |          |
|                         | aves (B5)                  | Other (Explai                                  | iii iii rtomanto    | ,                         |             | nagnum moss (D8)      |               |          |
|                         |                            |  |                     |                           |             |                       | (=::::::, -,  |          |
| Field Observations      |                            |  |                     |                           |             |                       |               |          |
| Surface water prese     |                            | No X Depth                                     | (inches):           |                           |             |                       |               |          |
| Water table present?    |                            | - <u>-                                    </u> | (inches):           |                           |             | Wetland               | No            |          |
| Saturation present?     | Yes                        |  | (inches):           |                           |             | Hydrology<br>Present? | 140           |          |
| (includes capillary fri |                            | _ No Deptil                                    | (IIICHES).          |                           |             | riesent:              |               |          |
|                         |                            |  |                     |                           | `           |                       |               |          |
| Describe recorded d     | ata (stream gauge, mor     | nitoring well, aerial                          | photos, previ       | ious inspecti             | ons), if av | ailable:              |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
| Remarks:                |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
|                         |                            |  |                     |                           |             |                       |               |          |
| 1                       |                            |  |                     |                           |             |                       |               |          |

| <b>/EGETATION</b> Use scientific names of plar        | nts.                |                            |                    | Sampling Point:   | DP13            |
|---|---------------------|----------------------------|--------------------|---|-----------------|
| <u>Tree Stratum</u> (Plot size: 30 feet )             | Absolute<br>% Cover | Dominant<br>Species        | Indicator<br>Staus | Dominance Test Worksheet  Number of Dominant                                |                 |
| 1   |                     |                            |                    | Species that are OBL, FACW, or FAC:   | 0 (A)           |
| 2 3   |                     |                            |                    | Total Number of Dominant Species Across all Strata:                         | 3 (B)           |
| 45  |                     |                            |                    | Percent of Dominant Species that are OBL, FACW, or                          |                 |
| 6   |                     |                            |                    |   | 00% (A/B)       |
| 78  |                     |                            |                    |   |                 |
|   | 0                   | = Total Cove               | r                  |   |                 |
| 50% of total cover: 0                                 | 20% of to           | otal cover:                | 0                  | Prevalence Index Worksheet  |                 |
| Sapling/Shrub Stratum (Plot size: 30 feet             | )                   |                            |                    | Total % Cover of:  OBL species 0 x 1 =                                      | 0               |
| 1   | .′                  |                            |                    | FACW species 10 x 2 =   | 20              |
| 3   |                     |                            |                    | FAC species 0 x 3 = FACU species 97 x 4 =                                   | 388             |
| 4   |                     |                            |                    | UPL species 0 x 5 =   | 0               |
| 5<br>6  |                     |                            | -                  | Column totals 107 (A)   | 408 (B)         |
| 7   |                     |                            |                    | Prevalence Index = B/A =  | 3.81            |
| 8   | 0                   | = Total Cove               |                    |   |                 |
| 50% of total cover: 0                                 |                     | otal cover:                | 0                  | Hydrophytic Vegetation Indicate   | ors:            |
|   |                     |                            |                    | Rapid test for hydrophytic veg  | etation         |
| Herb stratum (Plot size: 30 feet  1 Sorghum halepense | )<br>30             | Y                          | FACU               | Dominance test is >50%  Prevalence index is ≤3.0*                           |                 |
| 2 Paspalum notatum                                    | 30                  | <u> </u>                   | FACU               | Problematic hydrophytic   |                 |
| 3 Cynodon dactylon                                    | 30                  | <u> </u>                   | FACU               | vegetation* (explain)   |                 |
| 4 Verbena incompta                                    | 10                  | N                          | FACW               | *Indicators of hydric soil and wetland hydric                               | drology must    |
| 5 Trifolium repens                                    | 5                   | N                          | FACU               | be present, unless disturbed or prob  | olematic        |
| 6 Ambrosia artemisiifolia 7                           | 2                   | N                          | FACU               | Definitions of Four Vegetation S  |                 |
| 8   |                     |                            | -                  | <b>Tree</b> - Woody plants, excluding wo approximately 20 ft (6m) or more i |                 |
| 9   |                     |                            |                    | less than 3 in. (7.6 cm) DBH.   | J               |
| 10<br>11  |                     |                            | -                  | Sapling/Shrub - Woody plants, ex  | xcluding vines  |
| 12  | 407                 | Tatal Cause                |                    | less than 3 in. DBH and greater th  |                 |
| 50% of total cover: 53.5                              |                     | =Total Cove<br>otal cover: | 21.4               | Herb - All herbaceous (non-wood)  | () planta       |
|   | ,                   | _                          |                    | including herbaceous vines, regar   |                 |
| Woody vine stratum (Plot size: 30 feet                | .)                  |                            |                    | and woody plants, except woody vapproximately 3 ft (1 m) in height.         | vines, less tha |
| 2   |                     |                            |                    | Woody vine - All woody vines, reg   | gardless of     |
| 3   |                     |                            |                    | height.   |                 |
| 5   |                     |                            |                    | Hydrophytic   |                 |
|   | 0                   | = Total Cove               | r                  | Vegetation No   | •               |
| 50% of total cover: 0                                 |                     | otal cover:                | 0                  | Present?  |                 |
| Remarks: (If observed, list morphological             | adaptation          | s below).                  |                    |   |                 |
|   |                     |                            |                    |   |                 |
|   |                     |                            |                    |   |                 |
|   |                     |                            |                    |   |                 |
|   |                     |                            |                    |   |                 |
|   |                     |                            |                    |   |                 |

| SOIL         |                             |           |             |  |   |                                   |                         | Sampling Point:   | DP13                                     |  |  |  |  |
|--------------|-----------------------------|-----------|-------------|--|---|-----------------------------------|-------------------------|---|--|--|--|--|--|
| Profile Des  | cription: (Describe         | to the c  | lepth need  | ded to   | docume                                    | ent the indic                     | ator or confirm t       | he absence o  | f indicators.)                           |  |  |  |  |
| Depth        | <u>Matrix</u>               |           |             |  | Redo                                      | x Features                        |                         |   |  |  |  |  |  |
| (Inches)     | Color (moist)               | %         | Color (r    | noist)   | %   | Type*                             | Loc**                   | Texture   | Remarks                                  |  |  |  |  |
| 0-1          | 10YR 4/1                    | 100       |             |  |   |                                   |                         | Silt  | Mostly gravel with some soil             |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
| *Type: C = ( | L<br>Concentration, D = D   | enletion  | RM = Re     | duced N  | I<br>∕latrix M                            | I<br>IS = Masked                  | Sand Grains             | **Location: P   | L = Pore Lining, M = Matrix              |  |  |  |  |
|              | oil Indicators:             | Сріспон   | , 100 – 100 | auccu ii   | natrix, iv                                | io – Maskea                       | Caria Grains.           |   | r Problematic Hydric Soils:              |  |  |  |  |
| •            | isol (A1)                   |           |             | Polyv  | alue Belo                                 | ow Surface (S                     | 88) (LRR S, T, U)       |   | ck (A9) <b>(LRR O)</b>                   |  |  |  |  |
|              | ic Epipedon (A2)            |           |             | _  |   | face (S9) <b>(LR</b>              |                         |   | ck (A10) <b>(LRR S)</b>                  |  |  |  |  |
|              | ck Histic (A3)              |           |             | _  |   | y Mineral (F1                     | -                       |   | Vertic(F18) (outside MLRA 150A,B)        |  |  |  |  |
|              | rogen Sulfide (A4)          |           |             | _  | -   | d Matrix (F2)                     |                         |   | Floodplain Soils (F19) (LRR P, S, T)     |  |  |  |  |
| Stra         | tified Layers (A5)          |           |             | _  | eted Mat                                  |                                   |                         | Anomolo   | us Bright Loamy Soils (F20) <b>(MLRA</b> |  |  |  |  |
| Orga         | anic Bodies (A6) <b>(LR</b> | R P, T, I | U)          | Redo   | x Dark S                                  | Surface (F6)                      |                         | 153B)   |  |  |  |  |  |
| 5 cm         | n Mucky Mineral (A7         | (LRR I    | P, T, U)    | Deple  | eted Dar                                  | k Surface (F                      | 7)                      | Red Pare  | nt Material (TF2)                        |  |  |  |  |
| Muc          | k Presence (A8) <b>(LR</b>  | R U)      |             | Redo   | x Depre                                   | ssions (F8)                       |                         | Very Sha  | llow Dark Surface (TF12)                 |  |  |  |  |
| 1 cm         | n Muck (A9) (LRR P          | T)        |             | Marl (   | (F10) <b>(L</b>                           | RR U)                             |                         | Other (explain in remarks)  |  |  |  |  |  |
| Dep          | leted Below Dark Su         | rface (A  | 11)         | Deple  | ted Och                                   | ric (F11) <b>(ML</b> I            | RA 151)                 |   |  |  |  |  |  |
|              | k Dark Surface (A12         |           |             | Iron-N   | Mangane                                   | ese Masses                        | (F12) <b>(LRR O, P,</b> | T)  | *Indicators of hydrophytic vegetation    |  |  |  |  |
|              | st Prairie Redox (A1        |           | _           | Umbr   | ic Surfa                                  | ce (F13) <b>(LR</b>               | R P, T, U)              | and weltand hydrology must be pr<br>unless disturbed or problematic |  |  |  |  |  |
|              | dy Mucky Mineral (S         |           | o, s)       | _  | enta Ochric (F17) (MLRA 151)              |                                   |                         |   |  |  |  |  |  |
|              | dy Gleyed Matrix (S4        | 4)        |             | _  |   | ed Vertic (F18) (MLRA 150A, 150B) |                         |   |  |  |  |  |  |
|              | dy Redox (S5)               |           |             |  | edmont Floodplain Soils (F19) (MLRA 149A) |                                   |                         |   |  |  |  |  |  |
|              | oped Matrix (S6)            | пст       |             | Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) |   |                                   |                         |   |  |  |  |  |  |
| Dair         | k Surface (S7) (LRR         | P, 3, 1,  |             |  |   |                                   |                         |   |  |  |  |  |  |
| Restrictive  | Layer (if observed)         | :         |             |  |   |                                   |                         |   |  |  |  |  |  |
| Туре:        |                             |           |             |  |   |                                   | Hydric Soil             | No  |  |  |  |  |  |
|              | Depth (inches)              | :         |             |  |   | -                                 | Present?                | NO  |  |  |  |  |  |
| Remarks:     |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
| Area         |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |
|              |                             |           |             |  |   |                                   |                         |   |  |  |  |  |  |



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