

Exhibit FF. Germania Site Wetlands Delineation Report



Baton Rouge Area Chamber®

<p>Germania Site Wetlands Delineation Report</p>

Wetland Delineation Report

**Germania Plantation Site
Ascension Parish, Louisiana**

Baton Rouge Area Chamber

December 2021

Prepared by

Chenier Environmental Consulting, LLC

P.O. Box 82466
Baton Rouge, LA 70884-2466

Contents

Section	Page
Introduction.....	1-1
1.1 Background.....	1-1
Methodology	2-1
2.1 Desktop Review.....	2-1
2.2 WOUS Delineation	2-1
2.3 Definition of Boundaries	2-1
2.4 Field Documentation	2-2
2.4.1 WOUS and Wetlands.....	2-2
Desktop Review.....	3-1
3.1 Location.....	3-1
3.2 Geology	3-1
3.3 Hydrology.....	3-1
3.4 Soils	3-1
3.4.1 Sharkey Clay.....	3-1
3.4.2 Commerce silty clay loam	3-2
3.4.3 Thibaut Clay	3-2
3.4.4 Convent Silt Loam.....	3-2
3.4.5 Vacherie Silt Loam.....	3-2
3.5 Vegetation and Land Use.....	3-3
Site Visit Results	4-1
4.1 Wetlands and WOUS.....	4-1
4.1.1 Wetland Habitat Descriptions.....	4-1
4.1.2 Non-wetland Waters of the U.S. Descriptions.....	4-1
4.2 Upland Feature Descriptions	4-2
Conclusion	5-1
References.....	6-1

Appendices

A	Figure 1: Site Location Map
	Figure 2: Existing Conditions Map
	Figure 3: Preliminary Jurisdictional Wetland Map (Aerial Photograph)
	Figure 4: Preliminary Jurisdictional Wetland Map
B	U.S. Army Corps of Engineers Wetland Field Data Sheets
C	Photographic Documentation

Tables

1	Definitions for Wetland Indicator Status	2-3
2	Potential Jurisdictional Wetlands Summary	4-1

Introduction

1.1 Background

Chenier Environmental Consulting, LLC (Chenier) has been retained by Baton Rouge Area Chamber to prepare a wetland delineation on an approximately 387-acre site located off Highway 405 near Donaldsonville, Ascension Parish, Louisiana (Figure 1).

The purpose of this report is to present field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands and non-wetland waters of the United States (WOUS) within the survey boundary (Site).

Chenier conducted site visits on February 26 and March 9, 2021, to identify and delineate potential WOUS features, including wetlands, which occur within the proposed project area. The features identified during the site visits are described in this report.

Methodology

2.1 Desktop Review

Prior to conducting field surveys, a desktop review of potential wetlands and non-wetland WOUS and jurisdictional status of these features was completed using Natural Resources Conservation Service (NRCS) soil data; Ascension Parish Soil Survey Reports; U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) data; United States Geological Survey (USGS) 7.5-minute topographic maps; and color-infrared aerial photography; and the USGS National Hydrographic Dataset (Figure 2). The information gathered during the desktop review is further discussed in Section 3. The presence of wetlands and other WOUS was confirmed by a field visit during which the boundaries of these features were defined.

2.2 WOUS Delineation

Field delineations were conducted following procedures set forth in the Interim Regional Supplement of the USACE Wetlands Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010). Chenier biologists followed USACE standard procedures to evaluate wetlands and other WOUS subject to regulation under the Clean Water Act (jurisdictional waters), as established in the Atlantic and Gulf Coast Supplement (USACE 2010) and the USACE Jurisdictional Determination Form Instructional Guidebook (USACE 2007), respectively. For this report, streams are classified as follows:

- **Perennial stream:** A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
- **Intermittent stream:** An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.
- **Ephemeral stream:** An ephemeral stream has flowing water only during and for a short duration after precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

The Corps of Engineers Wetlands Delineation Manual (USACE 1987) defines wetlands as areas that have positive indicators for hydrophytic vegetation, wetland hydrology, and hydric soils, or as:

“Areas that are inundated or saturated by surface or ground water 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. Wetlands generally include swamps, marshes, bogs, and similar areas.”

2.3 Definition of Boundaries

The limits of USACE jurisdiction for non-tidal waters (not including wetlands) of the United States (creeks, streams, etc.) are identified by the presence of ordinary high-water marks (OHWMs). The OHWM is defined as

“That line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the

bank, shelving, changes in soil character, destruction of terrestrial vegetation, the presence of litter or debris, or other appropriate means that consider the characteristics of the surrounding areas” (USACE 2007).

The wetland/upland boundary is determined when one of the mandatory criteria (soils, vegetation, and hydrology; described later in this section) does not exist.

2.4 Field Documentation

The following text describes the methods used during the WOUS surveys.

2.4.1 WOUS and Wetlands

The Routine Onsite Determination Method involves the following steps:

1. Locate the project area.
2. Identify the community type(s).
3. Select representative observation points.
4. Characterize each plant community type.
5. Record the indicator status of dominant species.
6. Determine whether hydrophytic vegetation is present and dominant.
7. Determine whether wetland hydrology is present.
8. Determine whether hydric soils are present.

Under this method, areas exhibiting a presence of wetland hydrology, hydric soils, and a dominance of hydrophytic vegetation are defined as wetlands. The method requires that additional consideration be given to sites with atypical conditions (evidence of sufficient natural or human-induced alterations that significantly alter the soils, vegetation, or hydrology) and sites where normal environmental conditions are not present during the wetland delineation (i.e., no hydrophytic vegetation due to annual or seasonal fluctuations in precipitation or groundwater levels).

Data was collected at representative observation points within each plant community type. USACE Atlantic and Gulf Coastal Plain wetland data forms were completed for each observation point. The figures included in Appendix A, Figures 3 and 4 depict the potential jurisdictional wetlands/WOUS features and observation points recorded during the survey. The wetland and upland data forms are presented in Appendix B, and photographs of sampling points are in Appendix C.

Each identified wetland was classified based on the U.S. Fish and Wildlife Service classification system (Cowardin, Carter, et al. 1979). Dominant vegetation was noted according to stratum: tree, shrub/sapling, woody vine, or herb. The wetland indicator status (Table 1) for each species was identified using the National Wetlands Inventory List of Plants that Occur in Wetlands (Reed 1988) and subsequent approved modifications to this list. Plants were identified using current taxonomic references, such as Aquatic and Wetland Plants of the Southeastern United States (Godfrey and Wooten 1981, Godfrey and Wooten 1980). Where recent taxonomic changes resulted in plant names that were not included in the National Wetlands Inventory List of Plants that Occur in Wetlands (Reed 1988), appropriate synonymy was used to reference the national list.

TABLE 1
Definitions for Wetland Indicator Status

Code	Term	Definition
OBL	Obligate	Species occurs in wetlands greater than 99% of the time.
FACW	Facultative Wetland	Species occurs in wetlands 67% to 99% of the time.
FAC	Facultative	Species occurs in wetlands 34% to 66% of the time.
FACU	Facultative Upland	Species occurs in wetlands 1% to 33% of the time.
UPL	Upland	Species occurs in wetlands less than 1% of the time.

Soil information was obtained from the Natural Resources Conservation Service (NRCS) Web Soil Survey for Ascension, Louisiana (NRCS 2019). Within each area investigated, soil samples were inspected for hydric soil indicators, as provided for on the wetland data forms. Using the Munsell Soil Color Charts (Munsell 1994), the value and chroma of soil samples were recorded. Soil texture and any observations of redoximorphic features were recorded. Wetland hydrology observations included soil saturation, evidence of any standing or ponded water, the presence of drainage patterns, and/or drift lines, and any additional primary or secondary hydrology indicator as defined by the Interim Regional Supplement of the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010).

SECTION 3

Desktop Review

3.1 Location

The site is located near Donaldsonville, Ascension Parish, Louisiana (Figure 1). The site is irregularly shaped and is approximately 387 acres (Figure 3). The Site is bordered by Highway 405 to the north; residences and farmland to the east and west; and forested land to the south. The site can be accessed off Highway 405.

Ascension Parish is in the southeast part of Louisiana and is in the Mississippi River Alluvial Plain Ecoregion of Louisiana (Figure 1) and falls within the *Southern Mississippi River Alluvium Major Land Resource Area* (MLRA 134) (NRCS 2006).

3.2 Geology

The Site is located within the Southern Holocene Meander Belts ecoregion of the in the Mississippi Alluvial Plain of the Western Gulf Coast region. This ecoregion has an extensive levee system throughout. Soils in this ecoregion are poorly drained Inceptisols, Entisols, and Vertisols (Daigle et al. 2006). The specific soil types that underly the Site are discussed below.

3.3 Hydrology

The site is in the Mississippi River Basin. The Hydrologic Unit Code (HUC) for this area is 08090302. The USFWS National Wetland Inventory (NWI) Map depicts three set of wetlands on the site throughout the forested portion closest to the Mississippi River. According to the FEMA National Flood Insurance Hazard website, the Site is located within Zone X and ground elevation ranges from 10 to 25 feet.

The site slopes gradually away from the northern side of the property closest to the Mississippi River. The site appears to be well drained with ditches lining the road down the middle of the property and in the agricultural fields. The water drains into the wooded area to the southwest side of the property due to a gradual decrease in elevation.

3.4 Soils

The soil series located within St. Landry Parish are described by the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service on the Web Soil Survey (<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>). According to the Web Soil Survey, the Site is underlain primarily by Sharkey clay (Sc), as well as Commerce silty clay loam (Co), Commerce silt loam (Cm), Thibaut clay (Tu), Convent silt loam (Cs), and Vacherie silt loam (Va).

Figures 2 and 3 shows the distribution of the soil series across the Site and surrounding area.

3.4.1 Sharkey Clay

The Sharkey series consists of very deep, poorly and very poorly drained, very slowly permeable soils that formed in clayey alluvium. These soils are on flood plains and low terraces of the

Mississippi River. The upper three horizons of a representative profile of a Sharkey soil consist of:

- 0 to 6 inches; very dark grayish brown (10YR 3/2) clay
- 6 to 10 inches; dark grayish brown (10YR 4/2) clay
- 10 to 24 inches; dark gray (10YR 4/1) clay

3.4.2 Commerce silty clay loam

The Commerce series consists of deep, somewhat poorly drained, moderately slowly permeable soils that formed in loamy alluvial sediments. These soils are on level to undulating alluvial plains of the Mississippi River and its tributaries. The upper three horizons of a representative profile of a Commerce soil consist of:

- 0 to 7 inches; dark grayish brown (10YR 4/2) silt loam
- 7 to 15 inches; dark grayish brown (10YR 4/2) silty clay loam
- 15 to 22 inches; dark grayish brown (10YR 4/2) silty clay loam

3.4.3 Thibaut Clay

The Thibaut series consists of very deep, poorly drained, very slowly permeable soils that formed in clayey alluvium over fine-silty alluvium. These soils are on alluvial flats and on the lower parts of natural levees on the alluvial plain of the Mississippi River and its distributaries. The upper three horizons of a representative profile of a Thibaut clay soil consist of:

- 0 to 6 inches; dark gray (2.5Y 4/1) clay
- 6 to 12 inches; dark grayish brown (2.5Y 4/2) clay
- 12 to 16 inches; gray (2.5Y 5/1) clay

3.4.4 Convent Silt Loam

The Convent series consists of very deep, somewhat poorly drained, moderately permeable soils that formed in recent loamy alluvium. These soils are on nearly level to very gently sloping natural levee positions on flood plains, mainly along the Mississippi River and its distributaries. The upper three horizons of a representative profile of a Convent soil consist of:

- 0 to 4 inches; dark grayish brown (10YR 4/2) silt loam
- 4 to 12 inches; grayish brown (10YR 5/2) very fine sandy loam
- 12 to 24 inches; dark grayish brown (10YR 4/2) silt loam

3.4.5 Vacherie Silt Loam

The Vacherie series consists of deep, somewhat poorly drained, very slowly permeable soils that formed in silty and clayey alluvium. These soils are on nearly level to very gently sloping flood plains of the Mississippi River. The upper three horizons of a representative profile of a Vacherie soil consist of:

- 0 to 6 inches; dark grayish brown (10YR 4/2) silt loam
- 6 to 12 inches; dark gray (N 4/0) silt loam

- 12 to 20 inches; grayish brown (10YR 5/2) silt loam

3.5 Vegetation and Land Use

The site and surrounding area are primarily rural agricultural land with residences along the northern side adjacent to the Mississippi River. The northern and southern sides of the property are bordered by forested land with some wetlands.

SECTION 4

Site Visit Results

4.1 Wetlands and WOUS

We identified three wetlands and five non-wetland Waters of the U.S. on the Site. The Preliminary Jurisdictional Wetland Map (Appendix A, Figures 3 and 4) shows the non-wetland waters identified during this investigation.

4.1.1 Wetland Habitat Descriptions

We found three jurisdictional wetlands (W1, W2, and W3) that met the three (3) mandatory wetland criteria. The following is a description of the wetlands identified:

W1 is an approximately 1.9-acre wetland located across the road from a permanently flooded timber area. Dominant vegetation (DP1) consists of OBL and FAC species including water oak (*Quercus nigra*-FAC) and Savannah panicgrass (*Phanopyrum gymnocarpon*-OBL). Primary wetland hydrology indicators present include saturation, a high-water table, and surface water present. The primary hydric soil indicator includes a depleted matrix.

W2 is an approximately 0.16-acre wetland located across the road from a flooded forested area and connected by a culvert. The wetland turns into a small stream that runs off the west side of the property into a cow pasture. Dominant vegetation (DP3) consists of OBL and FAC species including: water oak, American elm (*Ulmus americana*-FAC), and Savannah panicgrass. Primary wetland hydrology indicators present include saturation, a high-water table, and surface water present. The primary hydric soil indicator includes a depleted matrix.

W3 is an approximately 1.46-acre long and narrow wetland. This wetland has a ditch on either end of it, with connection to a bayou on the west side. Dominant vegetation (DP6) consists of OBL species including giant cutgrass (*Zizaniopsis miliacea*-OBL), Savannah panicgrass. Primary wetland hydrology indicators present include saturation, a high-water table, and surface water present. The primary hydric soil indicator includes a depleted matrix.

4.1.2 Non-wetland Waters of the U.S. Descriptions

The following are descriptions of the potentially jurisdictional non-wetland waters (ditches, streams, etc.) on the Site:

- **S1** is a perennial stream that drains the entire site. It originates at the front of the property and runs in a straight line to the back of the property to the forested area bordering the southwest side of the property. S1 has a top-of-bank (TOB) height of approximately 4 feet and a TOB width of approximately 15 feet. Water depth was approximately 4 inches.
- **S2, S3, and S4** are ephemeral agricultural ditches that receive surface runoff from the agricultural field. These ditches are man-made deeply incised that connect perpendicularly

to S1. TOB widths range from 8-12 feet and TOB heights range from 3-4 feet. No standing water was present in S2, but 4-6 inches of water was present in S3 and S4.

- **S5** is a perennial stream that drains into W3. Like S2-S4, S5 connects to S1 perpendicularly. S5 has a TOB width of approximately 6 feet and a TOB height of approximately 3 feet. Approximately 3 inches of standing water was present on the west side of the road, but S5 is dry on the east side of the road.

4.2 Upland Feature Descriptions

Much of the site is a typical agricultural field bordered by forested area on the southwest and northeast side. The representative points in the agricultural fields have dominant FACU herbaceous vegetation including annual meadow grass (*Poa annua*), purslane speedwell (*Planodes virginicum*), and spiny sowthistle (*Sonchus asper*). This includes points DP7 and DP9.

The points found within the forest include DP2, DP4, DP5, DP8, and DP10. Dominant vegetation consisted of mostly FAC and FACU species, typical species for the site include water oak, American Elm, sticky willy (*Galium aparine*), Japanese honeysuckle (*Lonicera japonica*), garden vetch (*Vicia sativa*), southern dewberry (*Rubus trivialis*), and Japanese climbing fern (*Lygodium japonicum*) (see Appendix A, Figure 3).

SECTION 5

Conclusion

This report summarizes the results of the wetland delineation conducted in March 2021 on an approximately 387-acre site in Donaldsonville, Ascension Parish, Louisiana. This report identifies three jurisdictional wetlands on the site totaling 3.52 acres. Three ephemeral streams and two perennial streams exist on the site.

Wetlands and watercourses were delineated in accordance with the USACE Wetland Delineation Manual (USACE Environmental Laboratory 1987) and Interim Regional Supplement of the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010). These features were described based on field assessments and reviews of readily available data, including NWI maps, NRCS soil surveys, 7.5-minute USGS topographic quadrangles maps, and USGS NHD data.

The USACE, under the authority of Section 404 of the Clean Water Act and of Section 10 of the Rivers and Harbor Act, has the authority to make the final determination of the location and extent of jurisdictional wetlands and navigable waters for this project area, respectively. This report represents the opinion of the Chenier investigators and should be considered preliminary until final concurrence is obtained from the USACE New Orleans District.

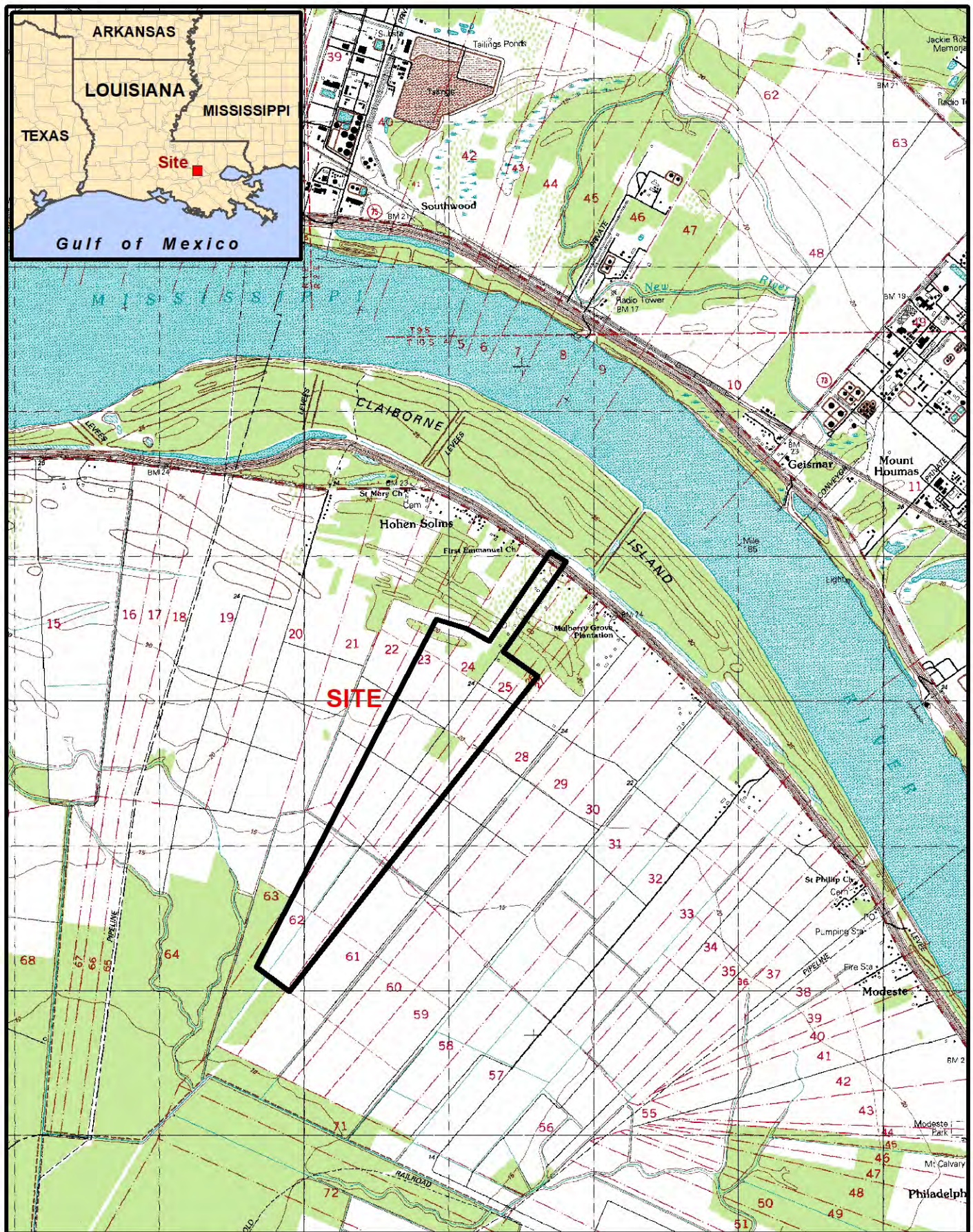
SECTION 6

References

- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. *Classification of wetlands and deepwater habitats of the United States*. USFWS/OBS-79/31, U.S. Fish and Wildlife Service, Biological Services Program, 1979.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. *Classifications of wetlands and deepwater habitats of the United States*. Washington D.C.: U.S. Department of the Interior, U.S. Fish and Wildlife Service, 1979.
- Daigle, J.J., Griffith, G.E. Omernik, J.M., Faulkner, P.L. McCulloh, R.P., Handley, L.R., Smith, L.M., and Chapman, S.S., 2006, Ecoregions of Louisiana (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey (map scale 1:1,000,000)
- FEMA. Flood Map Service Center. <https://msc.fema.gov/portal/> Accessed February 2021.
- Godfrey, R.K, and J.W. Wooten. *Aquatic and wetland plants of the southeastern United States: Dicotyledons*. The University of Georgia Press, 1981.
- Godfrey, R.K., and J.W. Wooten. *Aquatic and Wetland Plants of the Southeastern United States: Monocotyledons*. The University of Georgia Press, 1980.
- <https://gulfcoast.harc.edu/Biodiversity/Ecoregions/MississippiAlluvialSoutheastUSCoastalPlains/tabid/2250/Default.html>. Accessed February 2021.
- Munsell. "Munsell soil color charts." Baltimore, Maryland: Kollmorgen Corporation, 1994.
- Natural Resources Conversation Service. Web Soil Survey. <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed February 2021.
- Natural Resource Conservation Service. "National Hydric Soils List." March 2014. <http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/>.
- Natural Resources Conservation Service, U.S. Department of Agriculture. *Official Soil Series Descriptions*. n.d. <https://soilseries.sc.egov.usda.gov/osdname.asp> Accessed February 2021.
- Reed, P.B. *National list of plant species that occur in wetlands*. U.S. Fish and Wildlife Service in cooperation with the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, and the U.S. Soil Conservation Service, 1988.
- U.S. Army Corps of Engineers Environmental Laboratory. *Corps of Engineers Wetlands Delineation Manual*. Y-87-1, Vicksburg, Mississippi: U.S. Army Corps of Engineers Waterways Experiment Station, 1987.
- U.S. Army Corps of Engineers. *Regional Supplement of the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coast Region (Version 2.0)*. ERDC/EL TR-10-20, Vicksburg, Mississippi: U.S. Army Corps of Engineers Engineer Research and Development Center, 2010.
- U.S. Geological Survey. National Hydrographic Dataset. https://www.usgs.gov/core-science-systems/ngp/national-hydrography/national-hydrography-dataset?qt-science_support_page_related_con=0#qt-science_support_page_related_con. Accessed February 2021.
- U.S. Geological Survey. 1997. *Hydrologic Unit Map-1974*. State of Louisiana. U.S. Geological Survey, 1977.

Appendix A

Figures



Map Scale: 1:36,000
1 Inch = 3,000 Feet

0 750 1,500 3,000 Feet



FIGURE 1 - USGS Topographic Map

Wetland Delineation
Germania Site
Ascension Parish, Louisiana
Baton Rouge Area Chamber

Source: State of Louisiana; Projection: UTM Z15N, NAD 83; 1:24,000 USGS Quadrangle Map

Date: 07/15/2021
Map ID: CMS2021-027

**Chenier Environmental
Consulting, LLC**

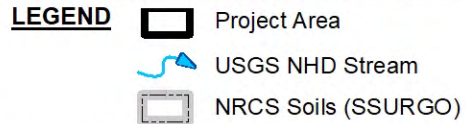
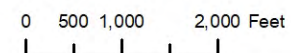


FIGURE 2 - Existing Conditions Map
 Wetland Delineation
 Germania Site
 Ascension Parish, Louisiana
 Baton Rouge Area Chamber

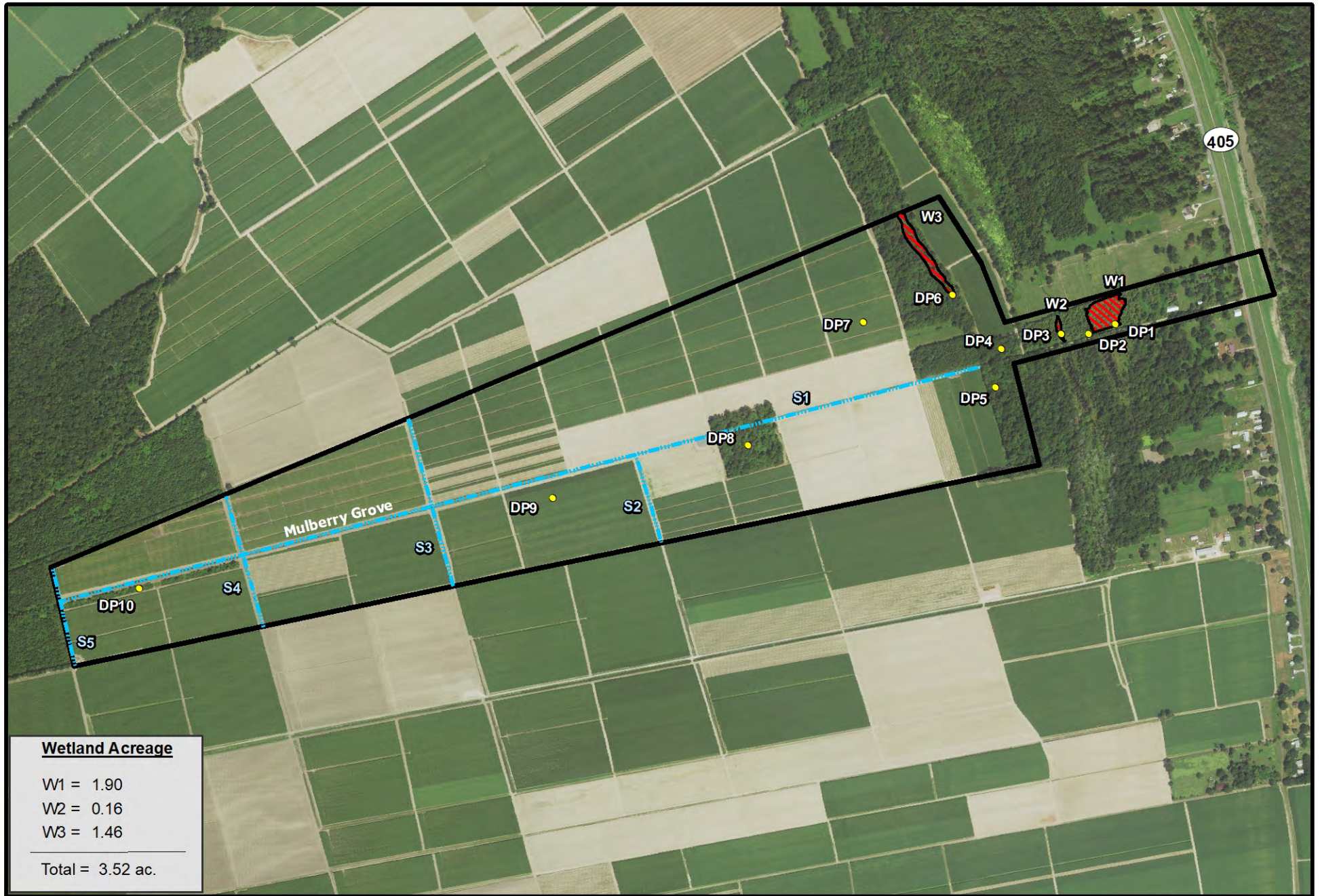
Map Scale: 1:24,000
 1 Inch = 2,000 Feet



Date: 07/15/2021
 Map ID: CMS2021-028



**Chenier Environmental
 Consulting, LLC**



LEGEND

- Project Area
- Jurisdictional Wetlands (3.52 ac.)
- Non-Jurisdictional Wetlands (0.0 ac.)
- Data Point
- Non-Wetland Waters of the U.S. (13,377 linear ft.)

FIGURE 3 - Wetland Delineation Map

Wetland Delineation
 Germania Site
 Ascension Parish, Louisiana
 Baton Rouge Area Chamber

Map Scale: 1:14,400
 1 Inch = 1,200 Feet

0 300 600 1,200 Feet

Date: 12/17/2021
 Map ID: CMS2021-029b



**Chenier Environmental
 Consulting, LLC**

Appendix B
U.S. Army Corps of Engineers Wetland Field Data
Sheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 02/26/21
 Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP1
 Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
 Landform (hillslope, terrace, etc.) Natural levee Local relief (concave, convex, none): concave Slope (%): 0-1
 Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.598 Long: 91°02.518 Datum: UTM
 Soil Map Unit Name: Sharkey Clay NWI Classification: Freshwater Forested/ Shrub Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>x</u> No <u> </u>
Hydric Soil Present?	Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>x</u> No <u> </u>	
Remarks: DP1 is in an inundated wetland dominated by <i>Phanopyrum gymnocarpon</i> on the northern side of the narrow strip of the property that connects to Highway 405. Photographs 5&6		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>1</u> Saturation Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>x</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

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

 Sampling Point **DP1**

Tree Stratum (Plot size: 20 ft radius)				Dominance Test worksheet:	
1. <i>Ulmus americana</i>	2	N	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u>	(A)
2. <i>Quercus nigra</i>	40	Y	FAC	Total Number of Dominant Species Across All Strata: <u>2</u>	(B)
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
	42	= Total Cover			
50 % of total cover: <u>21%</u>		20 % of total cover: <u>8.4%</u>			
Sapling/Shrub Stratum (Plot size: 20 ft radius)				Prevalence Index worksheet:	
1. _____				Total % Cover of: _____	Multiply by: _____
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
	102	= Total Cover			
50% of total cover <u>51%</u>		20 % of total cover: <u>20.4%</u>			
Herb Stratum (Plot size: 20 ft radius)				Hydrophytic Vegetation Indicators:	
1. <i>Hydrocotyle bonariensis</i>	2	N	FACW	<u>1</u> – Rapid Test for Hydrophytic Vegetation	
2. <i>Galium aparine</i>	5	N	FACU	<u>x</u> 2 – Dominance Test is > 50%	
3. <i>Phanopyrum gymnocarpon</i>	95	Y	OBL	<u>x</u> 3 – Prevalence Test is ≤ 3.0 ¹	
4. _____				<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
	102	= Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
50 % of total cover: <u>51</u>		20 % of total cover: <u>20.4</u>		Definitions of Vegetation Strata:	
Woody Vine Stratum (Plot size: 20 ft radius)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
1. _____				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
2. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
3. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
4. _____				Woody vine – All woody vines, regardless of height.	
5. _____					
		= Total Cover		Hydrophytic Vegetation Present?	
50 % of total cover: _____		20 % of total cover: _____		Yes <u>x</u>	No _____
Remarks:					

SOIL

Sampling Point: DP1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-15	10YR 3/1	70	10YR4/6	30	RM	PL	Clay	
15-21	10YR 3/1	85	10YR4/6	15	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Acension Parish Sampling Date: 02/26/21
 Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP2
 Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.560 Long: 91°02.538 Datum: UTM
 Soil Map Unit Name: Commerce silty clay loam NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present?	Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>x</u>	
Remarks: DP2 is located south of the wetland where DP1 is located, along the western side of the ditch, in an elevated forested habitat. Photographs 7&8		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

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

 Sampling Point DP2

Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet:																													
1. <u><i>Ulmus americana</i></u>	20	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u>	(A)																												
2. <u><i>Quercus nigra</i></u>	20	Y	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)																													
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)																													
4. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Total % Cover of:</th> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Multiply by:</th> </tr> <tr> <td style="width: 30%;">OBL species</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">62</td> <td style="text-align: center;">3</td> <td style="text-align: center;">186</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">30</td> <td style="text-align: center;">4</td> <td style="text-align: center;">120</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">92</td> <td></td> <td style="text-align: center;">306 (B)</td> </tr> </table>		Total % Cover of:		Multiply by:		OBL species	0	1	0	FACW species	0	2	0	FAC species	62	3	186	FACU species	30	4	120	UPL species	0	5	0	Column Totals:	92		306 (B)
Total % Cover of:		Multiply by:																															
OBL species	0	1	0																														
FACW species	0	2	0																														
FAC species	62	3	186																														
FACU species	30	4	120																														
UPL species	0	5	0																														
Column Totals:	92		306 (B)																														
5. _____																																	
6. _____																																	
7. _____																																	
8. _____																																	
<u>40</u> = Total Cover 50 % of total cover: <u>20%</u> 20 % of total cover: <u>8%</u>				Prevalence Index = B/A = <u>3.33</u>																													
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators:																													
1. _____				<u>1</u> – Rapid Test for Hydrophytic Vegetation																													
2. _____				<u>x</u> 2 – Dominance Test is > 50%																													
3. _____				<u>3</u> – Prevalence Test is ≤ 3.0 ¹																													
4. _____				<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																													
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																													
6. _____				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																													
7. _____				Hydrophytic Vegetation Present? Yes <u> </u> No <u> x </u>																													
8. _____																																	
9. _____																																	
10. _____																																	
11. _____																																	
12. _____																																	
<u>10</u> = Total Cover 50% of total cover <u>5%</u> 20 % of total cover: <u>2%</u>																																	
Herb Stratum (Plot size: <u>20 ft radius</u>)																																	
1. <u><i>Vicia sativa</i></u>	5	N	FACU																														
2. <u><i>Geranium carolinianum</i></u>	10	N	Not listed																														
3. <u><i>Viola sororia</i></u>	5	N	FAC																														
4. <u><i>Rudbeckia amplexicaulis</i></u>	2	N	FAC																														
5. <u><i>Galium aparine</i></u>	15	Y	FACU																														
6. <u><i>Ambrosia trifida</i></u>	15	Y	FAC																														
7. <u><i>Rubus trivialis</i></u>	10	N	FACU																														
8. _____																																	
9. _____																																	
10. _____																																	
11. _____																																	
12. _____																																	
<u>62</u> = Total Cover 50 % of total cover: <u>31%</u> 20 % of total cover: <u>12.4%</u>																																	
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)																																	
1. _____																																	
2. _____																																	
3. _____																																	
4. _____																																	
5. _____																																	
<u> </u> = Total Cover 50 % of total cover: <u> </u> 20 % of total cover: <u> </u>																																	
Remarks:																																	

SOIL

Sampling Point: DP2

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/2	100					Clay	
7-21	10YR 4/2	70	10YR 5/8	30	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 02/26/21
Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP3
Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.531 Long: 91°02.575 Datum: UTM
Soil Map Unit Name: Sharkey Clay NWI Classification: Freshwater Forested/ Shrub Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>x</u> No <u> </u>
Hydric Soil Present? Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>x</u> No <u> </u>	
Remarks: DP3 is in a narrow slough along the northern side of the property. Photographs 9&10	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes <u>x</u> No <u> </u>	Depth (inches): <u>2</u>	Wetland Hydrology Present? Yes <u>x</u> No <u> </u>
Water Table Present? Yes <u>x</u> No <u> </u>	Depth (inches): <u>1</u>	
Saturation Present? Yes <u>x</u> No <u> </u> (includes capillary fringe)	Depth (inches): <u>0</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks: 		

Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet:																													
1. <u><i>Ulmus americana</i></u>	20	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u>	(A)																												
2. <u><i>Quesrcus nigra</i></u>	15	Y	FAC	Total Number of Dominant Species Across All Strata: <u>3</u> (B)																													
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																													
4. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Total % Cover of:</th> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Multiply by:</th> </tr> <tr> <td style="width: 30%;">OBL species</td> <td style="width: 20%; text-align: center;">100</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 40%; text-align: center;">100</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">37</td> <td style="text-align: center;">3</td> <td style="text-align: center;">111</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4</td> <td style="text-align: center;">0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">137</td> <td></td> <td style="text-align: center;">211 (B)</td> </tr> </table> <p style="text-align: right; padding-top: 10px;">Prevalence Index = B/A = <u>1.54</u></p>		Total % Cover of:		Multiply by:		OBL species	100	1	100	FACW species	0	2	0	FAC species	37	3	111	FACU species	0	4	0	UPL species	0	5	0	Column Totals:	137		211 (B)
Total % Cover of:		Multiply by:																															
OBL species	100	1	100																														
FACW species	0	2	0																														
FAC species	37	3	111																														
FACU species	0	4	0																														
UPL species	0	5	0																														
Column Totals:	137		211 (B)																														
5. _____																																	
6. _____																																	
7. _____																																	
8. _____																																	
<div style="text-align: right;">35 = Total Cover</div> <div>50 % of total cover: <u>17.5%</u> 20 % of total cover: <u>7%</u></div>																																	
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> <u>2</u> – Dominance Test is > 50% <input checked="" type="checkbox"/> <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																													
1. _____																																	
2. _____																																	
3. _____																																	
4. _____																																	
5. _____				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																													
6. _____																																	
7. _____																																	
8. _____																																	
9. _____																																	
10. _____				Hydrophytic Vegetation Present? Yes <u>x</u> No _____																													
11. _____																																	
12. _____																																	
<div style="text-align: right;">102 = Total Cover</div> <div>50 % of total cover: <u>51%</u> 20 % of total cover: <u>20.4%</u></div>																																	
<div style="text-align: right;">_____ = Total Cover</div> <div>50 % of total cover: _____ 20 % of total cover: _____</div>																																	
Herb Stratum (Plot size: <u>20 ft radius</u>)				Woody Vine Stratum (Plot size: <u>20 ft radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ <div style="text-align: right; padding-top: 10px;">_____ = Total Cover</div> <div>50 % of total cover: _____ 20 % of total cover: _____</div>																													
1. <u><i>Phanopyrum gymnocarpon</i></u>	95	Y	OBL																														
2. <u><i>Rumex crispus</i></u>	2	N	FAC																														
3. <u><i>Cyperaceae sp.</i></u>	5	N	OBL																														
4. _____																																	
5. _____				Remarks: 																													
6. _____																																	
7. _____																																	
8. _____																																	
9. _____																																	
10. _____																																	
11. _____																																	
12. _____																																	
<div style="text-align: right;">102 = Total Cover</div> <div>50 % of total cover: <u>51%</u> 20 % of total cover: <u>20.4%</u></div>																																	
<div style="text-align: right;">_____ = Total Cover</div> <div>50 % of total cover: _____ 20 % of total cover: _____</div>																																	

SOIL

Sampling Point: DP3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	80	10YR 4/6	20	RM	M	Clay	
6-21	10YR 4/1	85	10YR 5/4	15	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 02/26/21
Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP4
Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
Landform (hillslope, terrace, etc.) Natural levee Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.453 Long: 91°02.645 Datum: UTM
Soil Map Unit Name: Thibaut Clay NWI Classification: Freshwater Forested/ Shrub Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present? Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Remarks: DP4 is in an elevated forested area on the southernmost section of the narrow band of property along the northern side that connects to Highway 405. Photographs 11&12	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>x</u>	Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>x</u>
Water Table Present? Yes <u> </u> No <u>x</u>	Depth (inches): <u> </u>	
Saturation Present? Yes <u> </u> No <u>x</u> (includes capillary fringe)	Depth (inches): <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks:		

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

 Sampling Point **DP4**

Tree Stratum (Plot size: 20 ft radius)				Dominance Test worksheet:																													
1. <u><i>Ulmus americana</i></u>	30	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u>	(A)																												
2. <u><i>Carya illinoensis</i></u>	5	N	FACU	Total Number of Dominant Species Across All Strata: <u>4</u> (B)																													
3. <u><i>Quercus nigra</i></u>	10	Y	FAC																														
4. _____																																	
5. _____																																	
6. _____																																	
7. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)																													
8. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Total % Cover of:</th> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Multiply by:</th> </tr> <tr> <td style="width: 30%;">OBL species</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">15</td> <td style="text-align: center;">2</td> <td style="text-align: center;">30</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">40</td> <td style="text-align: center;">3</td> <td style="text-align: center;">120</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">70</td> <td style="text-align: center;">4</td> <td style="text-align: center;">280</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">115</td> <td></td> <td style="text-align: center;">430 (B)</td> </tr> </table>		Total % Cover of:		Multiply by:		OBL species	0	1	0	FACW species	15	2	30	FAC species	40	3	120	FACU species	70	4	280	UPL species	0	5	0	Column Totals:	115		430 (B)
Total % Cover of:		Multiply by:																															
OBL species	0	1	0																														
FACW species	15	2	30																														
FAC species	40	3	120																														
FACU species	70	4	280																														
UPL species	0	5	0																														
Column Totals:	115		430 (B)																														
45 = Total Cover 50 % of total cover: <u>22.5%</u> 20 % of total cover: <u>9%</u>				Prevalence Index = B/A = <u>3.74</u> Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																													
Sapling/Shrub Stratum (Plot size: 20 ft radius)																																	
1. _____																																	
2. _____																																	
3. _____																																	
4. _____																																	
5. _____																																	
6. _____																																	
7. _____																																	
8. _____																																	
10 = Total Cover 50% of total cover <u>5%</u> 20 % of total cover: <u>2%</u>				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																													
Herb Stratum (Plot size: 20 ft radius)																																	
1. <u><i>Lonicera japonica</i></u>	20	Y	FACU																														
2. <u><i>Vicia sativa</i></u>	5	N	FACU																														
3. <u><i>Geranium carolinianum</i></u>	10	N																															
4. <u><i>Nemophila aphylla</i></u>	15	N	FACW																														
5. <u><i>Galium aparine</i></u>	10	N	FACU																														
6. <u><i>Allium canadense</i></u>	20	Y	FACU																														
7. <u><i>Rubus trivialis</i></u>	10	N	FACU																														
8. _____																																	
9. _____																																	
10. _____																																	
11. _____																																	
12. _____																																	
90 = Total Cover 50 % of total cover: <u>45%</u> 20 % of total cover: <u>18%</u>				Hydrophytic Vegetation Present? Yes <u> </u> No <u> x </u>																													
Woody Vine Stratum (Plot size: 20 ft radius)																																	
1. _____																																	
2. _____																																	
3. _____																																	
4. _____																																	
5. _____																																	
_____ = Total Cover 50 % of total cover: _____ 20 % of total cover: _____				Remarks:																													

SOIL

Sampling Point: DP4

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/1	100					Clay	
7-21	10YR 4/1	90	7.5YR 4/4	10	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐**Remarks:**

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 02/26/21
 Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP5
 Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
 Landform (hillslope, terrace, etc.): Natural levee Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.402 Long: 91°02.605 Datum: UTM
 Soil Map Unit Name: Thibaut Clay NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present?	Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>x</u>	
Remarks: DP5 is in the forested habitat in the northeastern corner of the property Photographs 13&14		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Celtis laevigata</u>	40	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. <u>Quercus nigra</u>	20	Y	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
			60 = Total Cover		
50 % of total cover: <u>30</u>			20 % of total cover: <u>12%</u>		
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
1. _____				OBL species <u>0</u>	<u>1</u> <u>0</u>
2. _____				FACW species <u>40</u>	<u>2</u> <u>80</u>
3. _____				FAC species <u>25</u>	<u>3</u> <u>75</u>
4. _____				FACU species <u>60</u>	<u>4</u> <u>240</u>
5. _____				UPL species <u>0</u>	<u>5</u> <u>0</u>
6. _____				Column Totals: <u>125</u>	<u>395</u> (B)
7. _____				Prevalence Index = B/A = <u>3.16</u>	
8. _____					
			10 = Total Cover		
50% of total cover <u>5%</u>			20 % of total cover: <u>2%</u>		
Herb Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Geranium carolinianum</u>	20	Y		<u>1</u> – Rapid Test for Hydrophytic Vegetation	
2. <u>Vicia sativa</u>	10	N	FACU	<u>2</u> – Dominance Test is > 50%	
3. <u>Solidago puberula</u>	30	Y	FACU	<u>3</u> – Prevalence Test is ≤ 3.0 ¹	
4. <u>Clematis terniflora</u>	5	N	FACU	<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. <u>Lygodium japonicum</u>	5	N	FAC		
6. <u>Galium aparine</u>	5	N	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <u>Rubus trivialis</u>	10	N	FACU		
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
			85 = Total Cover		
50 % of total cover: <u>42.5%</u>			20 % of total cover: <u>17%</u>		
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)				Definitions of Vegetation Strata:	
1. _____				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
2. _____				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
3. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
4. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
5. _____				Woody vine – All woody vines, regardless of height.	
			_____ = Total Cover		
50 % of total cover: _____			20 % of total cover: _____		
Remarks:				Hydrophytic Vegetation Present? Yes <u> </u> No <u> x </u>	

SOIL

Sampling Point: DP5

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/2	100					Clay	
10-19	10YR 4/2	90	10YR 3/6	10	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 03/09/21
 Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP6
 Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
 Landform (hillslope, terrace, etc.): Natural levee Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.473 Long: 91°02.788 Datum: UTM
 Soil Map Unit Name: Thibaut Clay NWI Classification: Freshwater Forested/ Shrub Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>x</u> No <u> </u>
Hydric Soil Present?	Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>x</u> No <u> </u>	
Remarks: DP6 is in the forested section along the northwestern side of the site. It is in a slough that continues west and drains into a bayou. Photographs 15&16		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>1</u> Water Table Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>x</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>x</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks:			

	Absolute % Cover	Dominant Species?	Indicator Status																																				
Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																			
1. _____	_____	_____	_____																																				
2. _____	_____	_____	_____																																				
3. _____	_____	_____	_____																																				
4. _____	_____	_____	_____																																				
5. _____	_____	_____	_____																																				
6. _____	_____	_____	_____																																				
7. _____	_____	_____	_____																																				
8. _____	_____	_____	_____																																				
_____ = Total Cover																																							
50 % of total cover: _____	20 % of total cover: _____																																						
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%;">Multiply by:</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td><u>95</u></td> <td>x1</td> <td><u>95</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x2</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u>0</u></td> <td>x3</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>0</u></td> <td>x4</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x5</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td><u>95</u></td> <td></td> <td><u>95</u></td> <td>(B)</td> </tr> </table> Prevalence Index = B/A = <u>1</u>	Total % Cover of:		Multiply by:			OBL species	<u>95</u>	x1	<u>95</u>		FACW species	<u>0</u>	x2	<u>0</u>		FAC species	<u>0</u>	x3	<u>0</u>		FACU species	<u>0</u>	x4	<u>0</u>		UPL species	<u>0</u>	x5	<u>0</u>		Column Totals:	<u>95</u>		<u>95</u>	(B)
Total % Cover of:		Multiply by:																																					
OBL species	<u>95</u>	x1	<u>95</u>																																				
FACW species	<u>0</u>	x2	<u>0</u>																																				
FAC species	<u>0</u>	x3	<u>0</u>																																				
FACU species	<u>0</u>	x4	<u>0</u>																																				
UPL species	<u>0</u>	x5	<u>0</u>																																				
Column Totals:	<u>95</u>		<u>95</u>		(B)																																		
1. _____	_____	_____	_____																																				
2. _____	_____	_____	_____																																				
3. _____	_____	_____	_____																																				
4. _____	_____	_____	_____																																				
5. _____	_____	_____	_____																																				
6. _____	_____	_____	_____																																				
7. _____	_____	_____	_____																																				
8. _____	_____	_____	_____																																				
_____ = Total Cover																																							
50% of total cover _____	20 % of total cover: _____																																						
Herb Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>x</u> 2 – Dominance Test is > 50% <u>x</u> 3 – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																																			
1. <u>Phanopyrum gymnocarpon</u>	<u>70</u>	<u>Y</u>	<u>OBL</u>																																				
2. <u>Zizaniopsis miliacea</u>	<u>25</u>	<u>Y</u>	<u>OBL</u>																																				
3. _____	_____	_____	_____																																				
4. _____	_____	_____	_____																																				
5. _____	_____	_____	_____																																				
6. _____	_____	_____	_____																																				
7. _____	_____	_____	_____																																				
8. _____	_____	_____	_____																																				
9. _____	_____	_____	_____																																				
_____ = Total Cover																																							
50 % of total cover: <u>47.5%</u>	20 % of total cover: <u>19%</u>																																						
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																																			
1. _____	_____	_____	_____																																				
2. _____	_____	_____	_____																																				
3. _____	_____	_____	_____																																				
4. _____	_____	_____	_____																																				
5. _____	_____	_____	_____																																				
6. _____	_____	_____	_____																																				
7. _____	_____	_____	_____																																				
8. _____	_____	_____	_____																																				
9. _____	_____	_____	_____																																				
_____ = Total Cover																																							
50 % of total cover: _____	20 % of total cover: _____																																						
				Hydrophytic Vegetation Present? Yes <u>x</u> No _____																																			
Remarks:																																							

SOIL

Sampling Point: DP6

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-21	10YR 3/1	70	10YR 4/6	30	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No _____**Remarks:**

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 03/09/21
Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP7
Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.346 Long: 91°02.856 Datum: UTM
Soil Map Unit Name: Commerce Silt Loam NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present? Yes <u> </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Remarks: DP7 is located within the fallow field habitat along the northern side of the property, west of Mulberry Grove. Photographs 17&18	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>x</u>	Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>x</u>
Water Table Present? Yes <u> </u> No <u>x</u>	Depth (inches): <u> </u>	
Saturation Present? Yes <u> </u> No <u>x</u> (includes capillary fringe)	Depth (inches): <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks: 		

Tree Stratum (Plot size: <u>20 ft radius</u>)				Absolute % Cover		Dominant Species?		Indicator Status	
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
				= Total Cover					
50 % of total cover: _____				20 % of total cover: _____					
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)									
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
				= Total Cover					
50% of total cover _____				20 % of total cover: _____					
Herb Stratum (Plot size: <u>20 ft radius</u>)									
1.	<u>Capsella bursa-pastoris</u>		5	N	FACU				
2.	<u>Packera glabella</u>		2	N	OBL				
3.	<u>Nuttallanthus texanus</u>		10	N	Not listed				
4.	<u>Veronica peregrina</u>		20	N	Not listed				
5.	<u>Poa annua</u>		80	Y	FACU				
6.	<u>Lamium amplexicaule</u>		2	N	Not listed				
7.	<u>Medicago lupulina</u>		5	N	UPL				
8.	<u>Sonchus asper</u>		25	Y	FACU				
9.									
10.									
11.									
12.									
				117 = Total Cover					
50 % of total cover: <u>58.5%</u>				20 % of total cover: <u>23.4%</u>					
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)									
1.									
2.									
3.									
4.									
5.									
				= Total Cover					
50 % of total cover: _____				20 % of total cover: _____					

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>2</u>	x1 <u>2</u>
FACW species <u>0</u>	x2 <u>0</u>
FAC species <u>0</u>	x3 <u>0</u>
FACU species <u>110</u>	x4 <u>440</u>
UPL species <u>5</u>	x5 <u>25</u>
Column Totals: <u>117</u>	<u>467</u> (B)

Prevalence Index = B/A = 3.99

Hydrophytic Vegetation Indicators:

1 – Rapid Test for Hydrophytic Vegetation

2 – Dominance Test is > 50%

3 – Prevalence Test is ≤ 3.0¹

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No x

Remarks:

SOIL

Sampling Point: DP7

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/4	100					Clay	
8-18	10YR 4/3	80	10YR 5/6	20	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes _____ No x

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 03/09/21
Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP8
Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°11.099 Long: 91°02.888 Datum: UTM
Soil Map Unit Name: Commerce Silty Clay Loam NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present? Yes <u> </u> No <u>x</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Remarks: DP8 is located east of Mulberry Grove within the forested habitat surrounding the former canning factory. Photographs 19&20	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)	
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

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

 Sampling Point **DP8**

Tree Stratum (Plot size: 20 ft radius)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Sambucus nigra</i>	10	N		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. <i>Quercus virginiana</i>	20	Y	FACU		
3. <i>Celtis laevigata</i>	10	Y	FACW	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
4. _____					
5. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40%</u> (A/B)	
6. _____					
7. _____					
8. _____					
<div style="display: flex; justify-content: space-between;"> 30 = Total Cover 50 % of total cover: <u>15%</u> 20 % of total cover: <u>6%</u> </div>					
Sapling/Shrub Stratum (Plot size: 20 ft radius)				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
1. <i>Sabal palmetto</i>	5	Y	FAC	OBL species <u>0</u>	x1 <u>0</u>
2. _____				FACW species <u>10</u>	x2 <u>20</u>
3. _____				FAC species <u>40</u>	x3 <u>120</u>
4. _____				FACU species <u>115</u>	x4 <u>460</u>
5. _____				UPL species <u>0</u>	x5 <u>0</u>
6. _____				Column Totals: <u>165</u>	<u>600</u> (B)
7. _____				Prevalence Index = B/A = <u>3.63</u>	
8. _____					
<div style="display: flex; justify-content: space-between;"> 5 = Total Cover 50% of total cover <u>2.5%</u> 20 % of total cover: <u>1%</u> </div>					
Herb Stratum (Plot size: 20 ft radius)				Hydrophytic Vegetation Indicators:	
1. <i>Galium aparine</i>	60	Y	FACU	<u>1</u> – Rapid Test for Hydrophytic Vegetation	
2. <i>Geranium carolinianum</i>	5	N		<u>2</u> – Dominance Test is > 50%	
3. <i>Vicia sativa</i>	30	Y	FACU	<u>3</u> – Prevalence Test is ≤ 3.0 ¹	
4. <i>Viola sororia</i>	15	N	FAC	<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. <i>Ambrosia trifida</i>	5	N	FAC		
6. <i>Rubus trivialis</i>	5	N	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. <i>Lygodium japonicum</i>	10	N	FAC		
8. <i>Smilax bona-nox</i>	5	N	FAC		
9. _____					
10. _____					
11. _____					
12. _____					
<div style="display: flex; justify-content: space-between;"> 130 = Total Cover 50 % of total cover: <u>65.5%</u> 20 % of total cover: <u>26%</u> </div>					
Woody Vine Stratum (Plot size: 20 ft radius)				Definitions of Vegetation Strata:	
1. _____				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
2. _____				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
3. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
4. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
5. _____				Woody vine – All woody vines, regardless of height.	
<div style="display: flex; justify-content: space-between;"> _____ = Total Cover 50 % of total cover: _____ 20 % of total cover: _____ </div>					
Remarks:				Hydrophytic Vegetation Present? Yes <u> </u> No <u> x </u>	

SOIL

Sampling Point: DP8

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 3/2	100						
12-21	10YR 3/2	85	10YR 4/6	15	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐**Remarks:**

Bright red seen throughout soil is from broken pieces of brick

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 03/09/21
Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP9
Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°10.858 Long: 91°03.069 Datum: UTM
Soil Map Unit Name: Commerce Silty Clay Loam NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present? Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Remarks: DP9 is located within the agricultural field on the east side of Mulberry Grove in the center of the property. Photographs 21&22	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)	
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

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

 Sampling Point **DP9**

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x1 <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x2 <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x3 <u>0</u></td> </tr> <tr> <td>FACU species <u>60</u></td> <td>x4 <u>240</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x5 <u>0</u></td> </tr> <tr> <td>Column Totals: <u>60</u></td> <td><u>240</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>4</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x1 <u>0</u>	FACW species <u>0</u>	x2 <u>0</u>	FAC species <u>0</u>	x3 <u>0</u>	FACU species <u>60</u>	x4 <u>240</u>	UPL species <u>0</u>	x5 <u>0</u>	Column Totals: <u>60</u>	<u>240</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x1 <u>0</u>																	
FACW species <u>0</u>	x2 <u>0</u>																	
FAC species <u>0</u>	x3 <u>0</u>																	
FACU species <u>60</u>	x4 <u>240</u>																	
UPL species <u>0</u>	x5 <u>0</u>																	
Column Totals: <u>60</u>	<u>240</u> (B)																	
50 % of total cover: _____ 20 % of total cover: _____																		
Sapling/Shrub Stratum (Plot size: 20 ft radius)																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
_____ = Total Cover																		
50% of total cover _____ 20 % of total cover: _____																		
Herb Stratum (Plot size: 20 ft radius)																		
1. <u>Lamium amplexicaule</u>	20	Y	NL	Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Poa annua</u>	30	Y	FACU															
3. <u>Veronica peregrina</u>	10	N	NL															
4. <u>Planodes virginicum</u>	30	Y	FACU															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	_____	_____	_____															
12. _____	_____	_____	_____															
_____ 60 = Total Cover																		
50 % of total cover: <u>30%</u> 20 % of total cover: <u>12%</u>																		
Woody Vine Stratum (Plot size: 20 ft radius)																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
_____ = Total Cover																		
50 % of total cover: _____ 20 % of total cover: _____																		
Remarks:																		

SOIL

Sampling Point: DP9

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/2	100					Clay	
6-12	10YR 4/2	90	10YR 4/6	10	RM	M	Clay	
12-19	10YR 4/2	70	10YR 4/6	30	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region


Project/Site: Germania Site Review/Germania Plantation City/County: Ascension Parish Sampling Date: 03/09/21
 Applicant/Owner: Baton Rouge Area Chamber State: Louisiana Sampling Point: DP10
 Investigator(s): R. Klutts, M. Holton Section, Township, Range: S24, T10, R14
 Landform (hillslope, terrace, etc.): Natural levee Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LLR-O; MLRA-131A Lat: 30°10.336 Long: 91°03.558 Datum: UTM
 Soil Map Unit Name: Sharkey Clay NWI Classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>x</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>x</u>
Hydric Soil Present?	Yes <u>x</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>x</u>	
Remarks: DP10 is located on the southern side of the property in the narrow band of trees that separates the agricultural fields in that section of the property. Photographs 23&24		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: 			

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

 Sampling Point **DP10**

Tree Stratum (Plot size: 20 ft radius)				Dominance Test worksheet:																																				
	Absolute % Cover	Dominant Species?	Indicator Status																																					
1. <i>Acer negundo</i>	10	N	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)																																				
2. <i>Quercus nigra</i>	30	Y	FAC																																					
3. <i>Cornus florida</i>	10	N	FACU	Total Number of Dominant Species Across All Strata: <u>4</u> (B)																																				
4. <i>Ulmus americana</i>	10	N	FAC																																					
5. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)																																				
6. _____	_____	_____	_____																																					
7. _____	_____	_____	_____																																					
8. _____	_____	_____	_____																																					
<u>60</u> = Total Cover 50 % of total cover: <u>30%</u> 20 % of total cover: <u>12%</u>				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x1</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x2</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u>60</u></td> <td>x3</td> <td><u>180</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>40</u></td> <td>x4</td> <td><u>160</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x5</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td><u>100</u></td> <td></td> <td><u>340</u></td> <td>(B)</td> </tr> </tbody> </table> <p style="text-align: right;">Prevalence Index = B/A = <u>3.4</u></p>		Total % Cover of:		Multiply by:			OBL species	<u>0</u>	x1	<u>0</u>		FACW species	<u>0</u>	x2	<u>0</u>		FAC species	<u>60</u>	x3	<u>180</u>		FACU species	<u>40</u>	x4	<u>160</u>		UPL species	<u>0</u>	x5	<u>0</u>		Column Totals:	<u>100</u>		<u>340</u>	(B)
Total % Cover of:		Multiply by:																																						
OBL species	<u>0</u>	x1	<u>0</u>																																					
FACW species	<u>0</u>	x2	<u>0</u>																																					
FAC species	<u>60</u>	x3	<u>180</u>																																					
FACU species	<u>40</u>	x4	<u>160</u>																																					
UPL species	<u>0</u>	x5	<u>0</u>																																					
Column Totals:	<u>100</u>		<u>340</u>	(B)																																				
Sapling/Shrub Stratum (Plot size: 20 ft radius)				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																																				
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																																				
2. _____	_____	_____	_____																																					
3. _____	_____	_____	_____																																					
4. _____	_____	_____	_____																																					
5. _____	_____	_____	_____																																					
6. _____	_____	_____	_____																																					
7. _____	_____	_____	_____																																					
8. _____	_____	_____	_____																																					
9. _____	_____	_____	_____																																					
10. _____	_____	_____	_____																																					
<u> </u> = Total Cover 50 % of total cover: <u> </u> 20 % of total cover: <u> </u>				Hydrophytic Vegetation Present? Yes <u> </u> No <u> x </u>																																				
Herb Stratum (Plot size: 20 ft radius)																																								
1. <i>Galium aparine</i>	15	Y	FACU																																					
2. <i>Rubus trivialis</i>	15	Y	FACU																																					
3. <i>Lygodium japonicum</i>	10	Y	FAC																																					
4. <i>Verbena rigida</i>	5	N	NL																																					
5. _____	_____	_____	_____																																					
6. _____	_____	_____	_____																																					
7. _____	_____	_____	_____																																					
8. _____	_____	_____	_____																																					
9. _____	_____	_____	_____																																					
10. _____	_____	_____	_____																																					
11. _____	_____	_____	_____																																					
12. _____	_____	_____	_____																																					
<u>40</u> = Total Cover 50 % of total cover: <u>20%</u> 20 % of total cover: <u>8%</u>																																								
Woody Vine Stratum (Plot size: 20 ft radius)																																								
1. _____	_____	_____	_____																																					
2. _____	_____	_____	_____																																					
3. _____	_____	_____	_____																																					
4. _____	_____	_____	_____																																					
5. _____	_____	_____	_____																																					
<u> </u> = Total Cover 50 % of total cover: <u> </u> 20 % of total cover: <u> </u>																																								
Remarks:																																								

SOIL

Sampling Point: DP10

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 4/2	100					Clay	
10-19	10YR 4/2	80	10YR 5/6	20	RM	M	Clay	

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

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

☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
☐ Thin Dark Surface (S9) **(LRR S, T, U)**
☐ Loamy Gleyed Matrix (F1) **(LRR O)**
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) **(LRR U)**
☐ Depleted Ochric (F11) **(MLRA 151)**
☐ Iron Manganese Masses (F12) **(LRR O, P, T)**
☐ Umbric Surface (F13) **(LRR P, T, U)**
☐ Delta Ochric (F17) **(MLRA 151)**
☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
☐ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
☐ Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) **(LRR O)**
☐ 2 cm Muck (A10) **(LRR S)**
☐ Reduced Vertic (F18) **(outside MLRA 150A,B)**
☐ Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
☐ Anomalous Bright Loamy Soils (F20)
(MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐

Remarks:

Appendix C

Photographic Documentation



1. View of the forested habitat on the southern side of the property



2. View of the non-wet forested habitat on the southern side of the property



3. View of the forested habitat with abandoned buildings found in the central part of the property



4. View of the crop fields that make up the majority of the central and northern part of the property



5. DP1 overview (W1)



6. DP1 soils



7. DP2 overview



8. DP2 soils



9. DP3 overview (W2)



10. DP3 soils



11. DP4 overview



12. DP4 soils



13. DP5 overview



14. DP5 soils



15. DP6 overview (W3)



16. DP6 soils



17. DP7 overview



18. DP7 soils



19. DP8 overview



20. DP8 soils



21. DP9 overview



22. DP9 soils



23. DP10 overview



24. DP10 soils



25. S1-drainage ditch that flows south along the entire length of the property



26. S2-drainage ditch that flows west and connects to S1



27. S3-drainage ditch that flows west and connects to S1



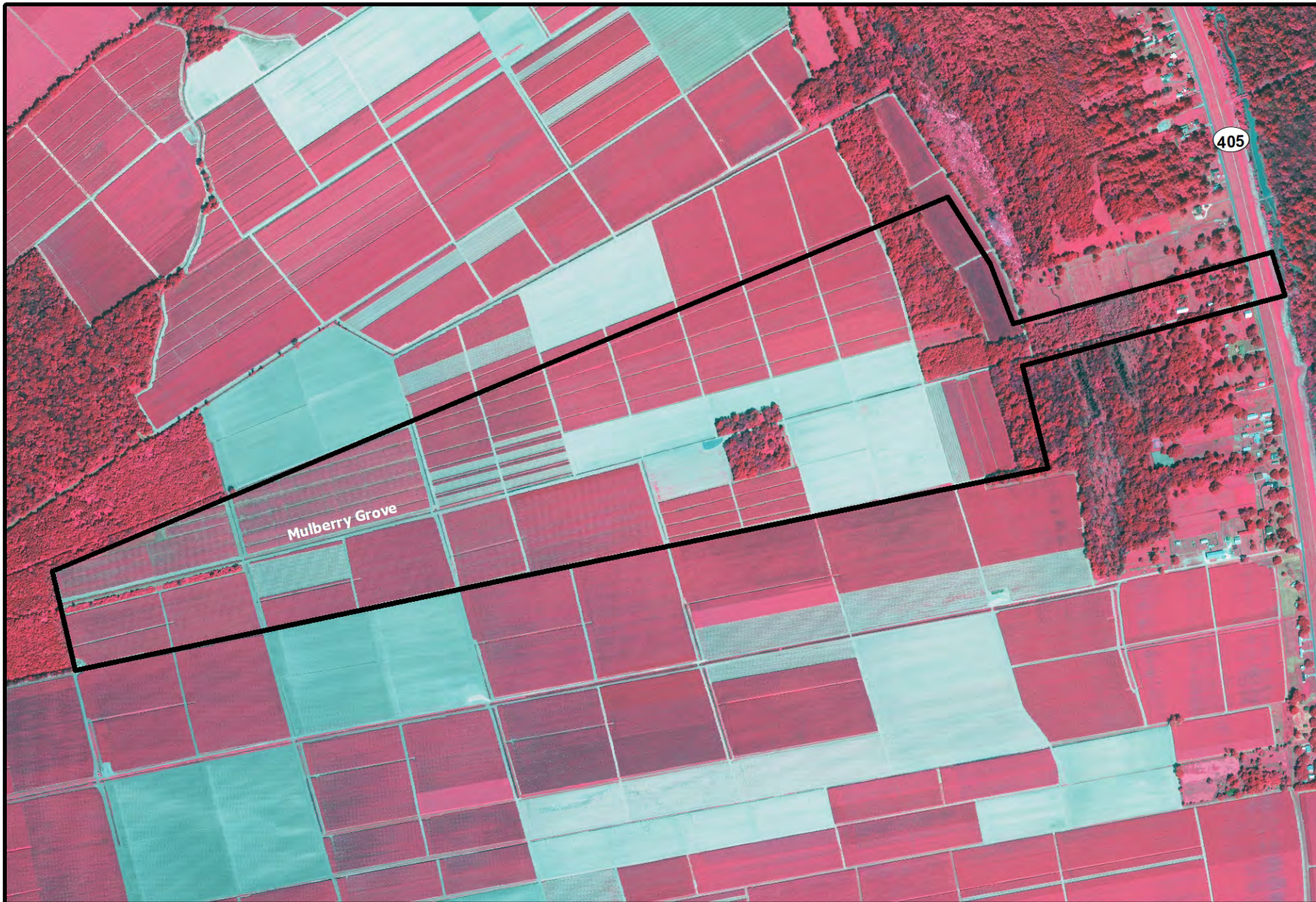
28. S4-drainage ditch that flows west and connects to S1



29. S5-drainage ditch that flows west and connects to S1

Appendix D

Exhibits



LEGEND  Project Area

Color-Infrared Map
Wetland Delineation
Germania Site
Ascension Parish, Louisiana
Baton Rouge Area Chamber

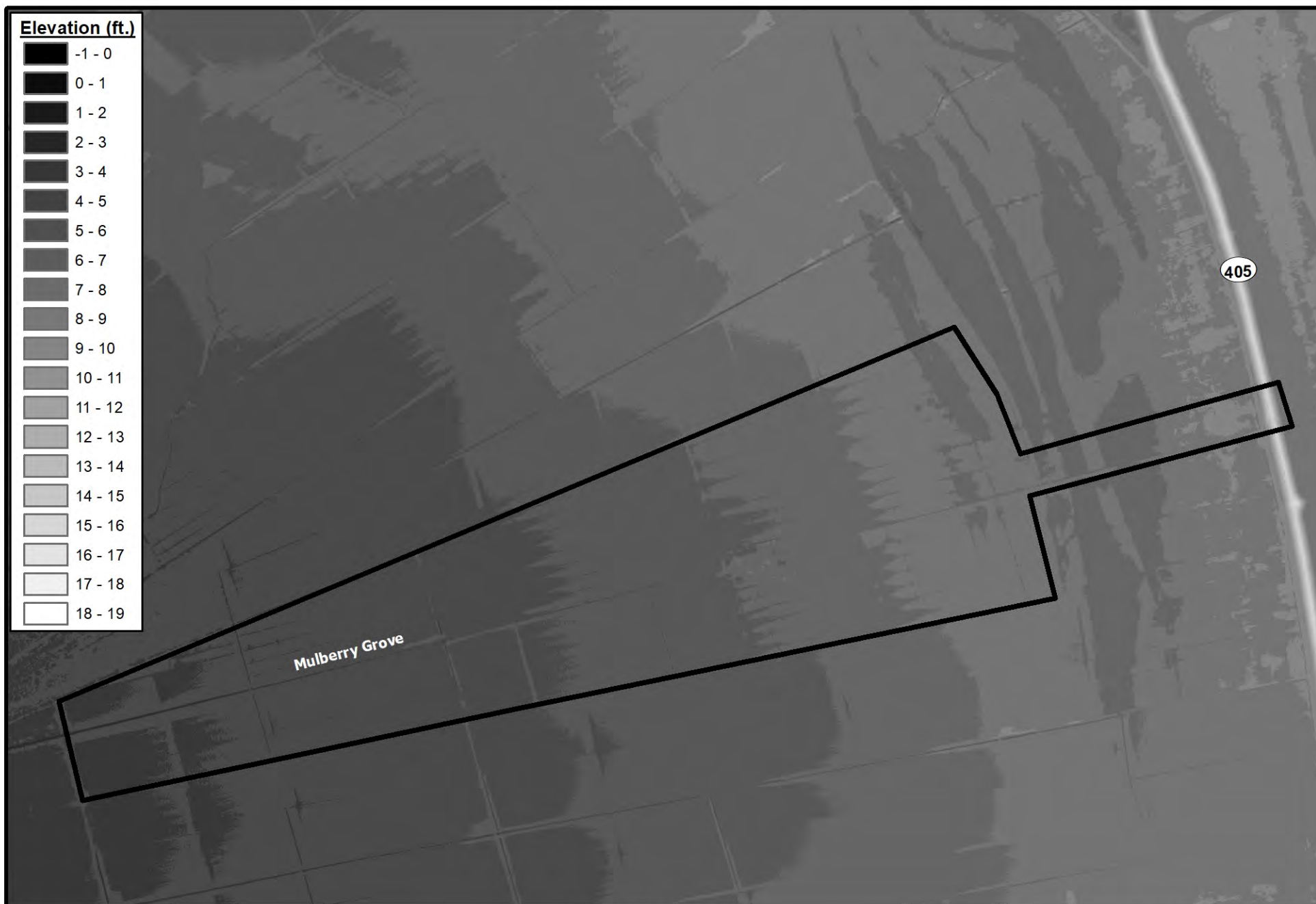
Map Scale: 1:14,400
1 Inch = 1,200 Feet

0 300 600 1,200 Feet

Date: 07/15/2021
Map ID: CMS2021-031



**Chenier Environmental
Consulting, LLC**



LEGEND  Project Area

LiDAR Elevation Map
 Wetland Delineation
 Germania Site
 Ascension Parish, Louisiana
 Baton Rouge Area Chamber

Map Scale: 1:14,400
 1 Inch = 1,200 Feet

0 300 600 1,200 Feet

Date: 07/15/2021
 Map ID: CMS2021-032



**Chenier Environmental
 Consulting, LLC**