

Exhibit Y. Foti – Highway 70 Wetlands Delineation Report





March 8, 2018

Via Electronic Mail

Foti - Highway 70 Wetlands Delineation Report

Mr. Jim Cavanaugh
Baton Rouge Area Chamber
jim@brac.org

Re: Wetland Data Report
Foti Highway 70 Project
Ascension Parish, Louisiana
Providence Project No. 1204-002

Dear Mr. Cavanaugh:

On behalf of Baton Rouge Area Chamber (BRAC), Providence Engineering and Environmental Group LLC (Providence) is submitting this wetland data report for the Foti Highway 70 project (hereinafter referred to as Site) in Ascension Parish, Louisiana.

BACKGROUND

The purpose of this report is to present field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands. This report was prepared in accordance with the *Corps of Engineers Wetlands Delineation Manual* (U.S. Army Corps of Engineers, Waterways Experiment Station 1987) and subsequent guidance provided in the Regional Supplement to the *Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* (U.S. Army Corps of Engineers, Wetland Regulatory Assistance Program 2010). Providence biologists visited the Site on September 1, 2017, and collected field data on the three diagnostic wetland parameters – soils, vegetation, and hydrology.

Prior to field reconnaissance, Providence reviewed the Natural Resources Conservation Service (NRCS) Web Soil Survey (2016), the *Soil Survey of Ascension Parish* (United States Department of Agriculture, Soil Conservation Service 1990), United States Geological Survey (USGS) 7.5-minute topographic maps, and recent aerial photography. Included for your review are: **Figure 1** – Vicinity Map, **Figure 2** – Site Location Map, **Figure 3** - Aerial Photograph, **Figure 4** – Soils Map, **Exhibit 1** – Copies of Site Photographs, and **Exhibit 2** - Routine Wetland Determination Data Forms – Atlantic and Gulf Coastal Plain Region.

PROJECT LOCATION & DESCRIPTION

The 12.28-acre Site is centered at Latitude 30.092083°; Longitude -90.936266° in Sections 104 and 105, Township 11 South, Range 15 East of Ascension Parish. Access to the Site is via Louisiana Highway 70. The Site is characterized by upland pasture and potential palustrine emergent (PEM) wetlands. Based on historical aeriels, this area appears to have been a trailer park with an established road system.

Providence Engineering and Environmental Group LLC

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1204-002-001NG Foti Hwy 70 WDR

SOILS

The NRCS Web Soil Survey was used to determine mapped soil series. The revised official series descriptions were used to confirm profile matrix, redox features, and texture of soils underlying the Site. The Web Soil Survey shows that the Site may be underlain by two soil map units (NRCS Web Soil Survey 2016). **Table 1** shows the soil map unit's individual soil components, component percentage, and hydric status in Ascension Parish (NRCS Survey Area Data, Version 11, September 23, 2016).

Table 1: NRCS Web Soil Survey Data

| Map Unit Name | Soil Series/ Component | Component Percentage | Hydric Status |
|--|------------------------|----------------------|---------------|
| Co: Commerce silty clay loam | | | |
| | Commerce | 90 | No |
| | Sharkey | 10 | Yes |
| Sc: Sharkey clay, 0 to 1 percent slopes, rarely flooded, south | | | |
| | Sharkey | 80-95 | Yes |
| | Tunica | 1-6 | No |
| | Dowling | 2-10 | Yes |
| | Commerce | 2-4 | No |

Providence collected soil samples between the surface and approximately 16 inches. The depth of each sample was sufficient to determine changes in upper horizons and to observe field indicators of hydric soils. Based on field observations, the wetland criterion for hydric soils was met at five of the six sample locations established by Providence to characterize the Site.

VEGETATION¹

Indicator statuses for dominant vegetation on the Site consist of facultative upland (FACU), facultative (FAC), facultative wetland (FACW), and obligate (OBL) species. **Table 2** is a list of the dominant species observed at the Site.

Table 2: Dominant Plant Species

| Common Name | Scientific Name | Cowardin Class |
|------------------|--------------------------------|----------------|
| Bahia grass | <i>Paspalum notatum</i> | FACU |
| Big bluestem | <i>Andropogon gerardii</i> | FAC |
| Blunt spike-rush | <i>Eleocharis obtusa</i> | OBL |
| Johnson grass | <i>Sorghum halepense</i> | FACU |
| Lamp rush | <i>Juncus effusus</i> | OBL |
| Pinkweed | <i>Persicaria pensylvanica</i> | FACW |

¹ Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. *The National Wetland Plant List: 2014 Update of Wetland Ratings*. Phytoneuron 2014-41: 1-42

The wetland criterion for a prevalence of hydrophytic vegetation was met at two of the six sample locations established by Providence to characterize the Site.

HYDROLOGY

The Site is in the East Central Louisiana Coastal watershed; within the United States Geological Survey (USGS) Hydrologic Cataloguing Unit 08090301. Hydrology on the Site is influenced by rainfall, sheetflow, and backwater flooding from Bayou Verret. Primary and Secondary indicators of hydrology observed at the Site include: surface water, oxidized root channels, and positive FAC-neutral tests. The wetland criterion for hydrology was met at three of the six sample locations established by Providence biologists to characterize the Site.

CONCLUSIONS

Evidence of poor drainage found in association with hydric soils and predominantly hydrophytic vegetation was considered sufficient to confirm the presence of potential jurisdictional PEM wetlands. It appears that approximately 0.63 acre of potential jurisdictional PEM wetlands and 712.14 linear feet (0.31 acre) of potential other waters of the U.S. may be present on the Site.

As requested in the solicitation for wetland services sent to Providence on August 17, 2017, below are the answers to the following questions:

1. **Do wetlands and/or other waterways exist on or near the site?**
 - a. Yes, wetland and other waters are present on the site and are included in the attached figures and shapefiles.
2. **If wetlands are present, has a section 404 Permit Application been submitted to USACE?**
 - a. No
3. **If wetlands are present, has a section 404 Permit Application been received from USACE?**
 - a. No
4. **If wetlands are present, have all wetlands on the site been mitigated?**
 - a. No

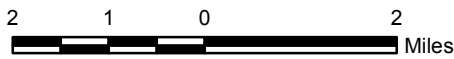
If you have any questions or require additional information, please contact me at (225) 766-7400 or timkimmel@providenceeng.com.

Sincerely,



Tim Kimmel
Environmental Scientist
Providence Engineering and Environmental Group LLC
1201 Main Street
Baton Rouge, Louisiana 70802

FIGURES



Legend



Limits of Delineation (12.28 Acres)

Reference

Base map comprised of ESRI StreetMap USA data.

Vicinity Map

Wetland Data Report
Ascension Parish, Louisiana

Baton Rouge Area Chamber

Foti Highway 70 Project



PROVIDENCE

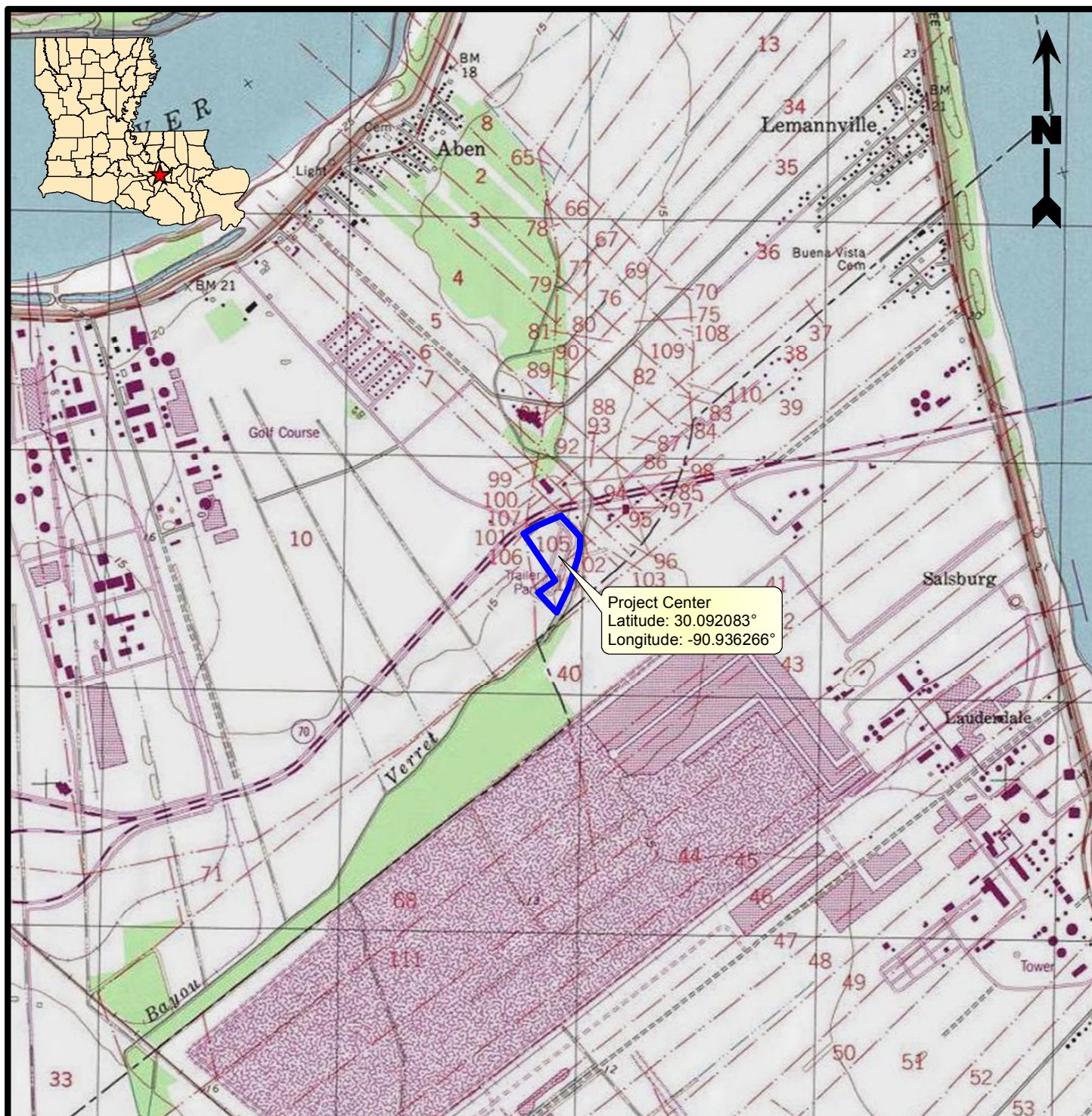
| | | |
|-------------|-----|----------|
| Drawn By | LMM | 09/11/17 |
| Checked By | LMH | 09/11/17 |
| Approved By | TCK | 09/11/17 |

Project Number
1204-002

Drawing Number
1204-002-A001

1

Figure



2,000 1,000 0 2,000
Feet

Legend



Limits of Delineation (12.28 Acres)

Reference

Base map comprised of United States Geological Survey (USGS) 7.5-minute topographic map, "Donaldsonville, LA".

Site Location Map

Wetland Data Report
Ascension Parish, Louisiana

Baton Rouge Area Chamber
Foti Highway 70 Project



PROVIDENCE

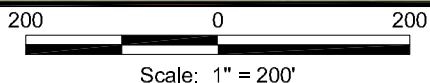
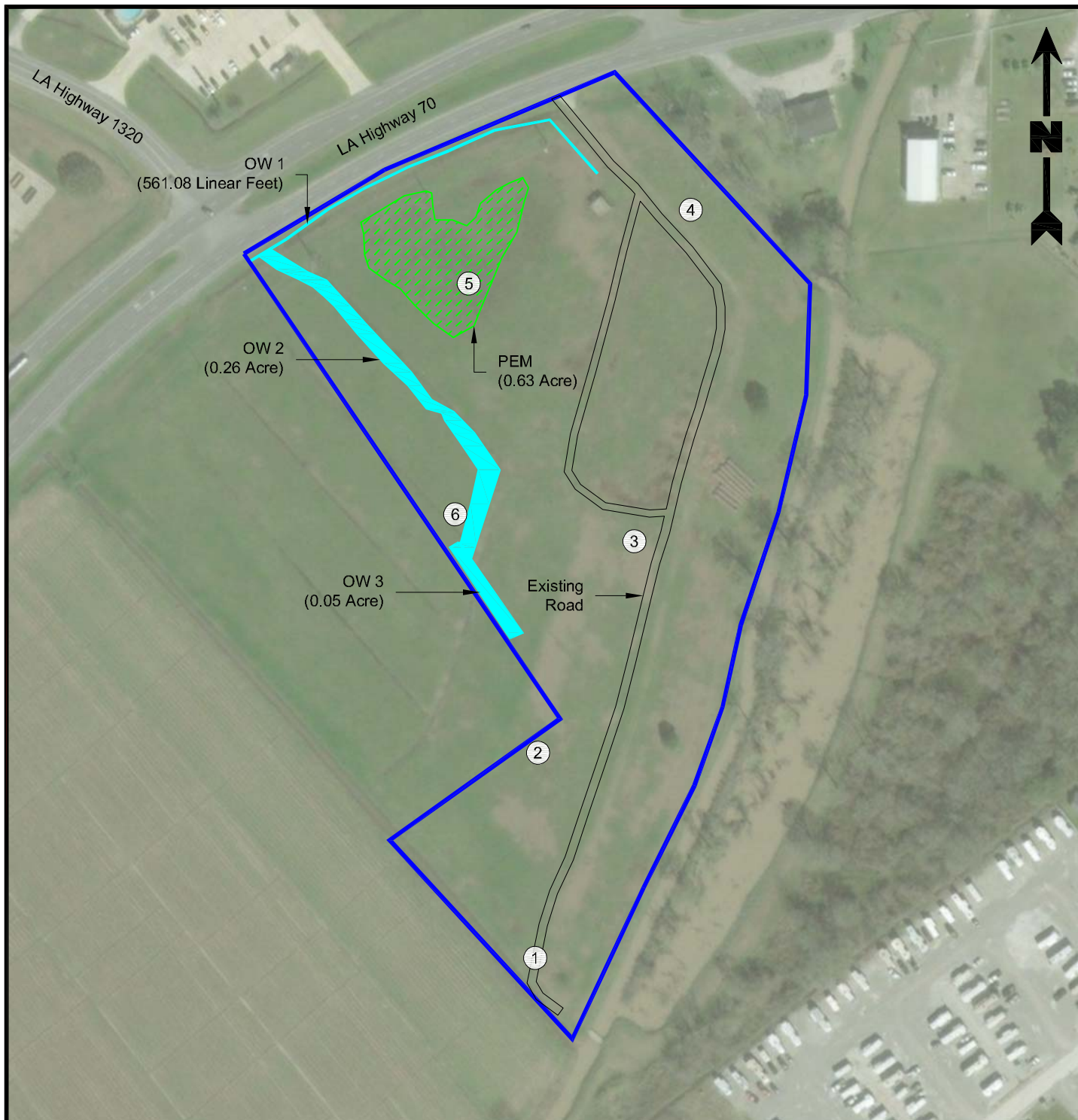
| | | |
|-------------|-----|----------|
| Drawn By | LMM | 09/11/17 |
| Checked By | LMH | 09/11/17 |
| Approved By | TCK | 09/11/17 |

Project Number
1204-002

Drawing Number
1204-002-A002

2

Figure



Legend

- Limits of Delineation (12.28 Acres)
- ▨ Potential Jurisdictional Wetlands (0.63 Acre)
- Potential Other Waters of The U.S. (712.14 Linear Feet; 0.31 Acre)
- ③ Sample Location

Reference

Base map comprised of Bing Maps aerial imagery from (c) 2017 Microsoft Corporation and its data suppliers, exported 09/11/17.

Aerial Photograph

Wetland Data Report
Ascension Parish, Louisiana

Baton Rouge Area Chamber
Foti Highway 70 Project



PROVIDENCE

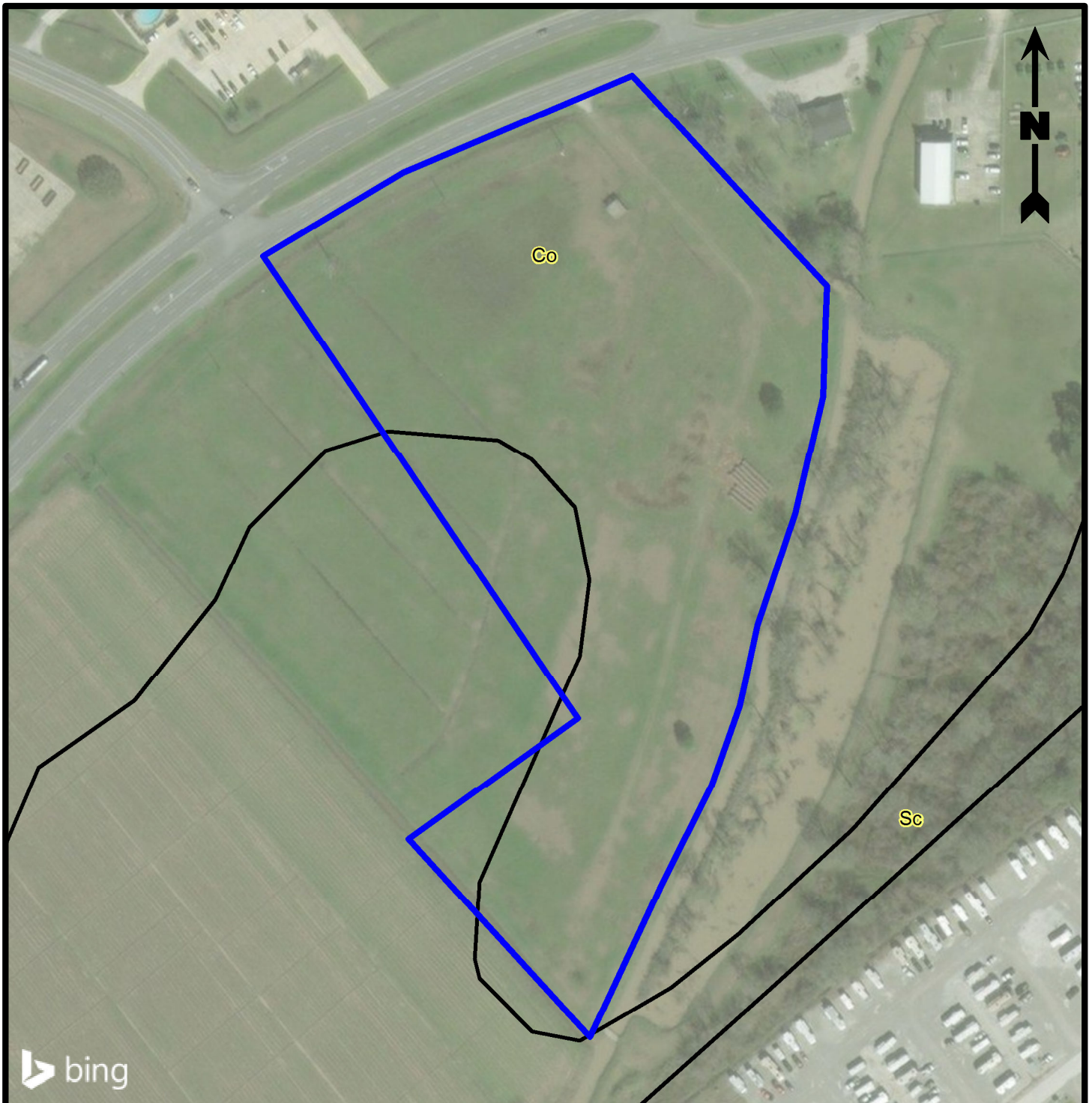
| | | |
|-------------|-----|----------|
| Drawn By | LMM | 10/12/17 |
| Checked By | LMH | 10/12/17 |
| Approved By | TCK | 10/12/17 |

Project Number
1204-002

Drawing Number
1204-002-A003

3

Figure



200 100 0 200
Feet

Legend

 Limits of Delineation (12.28 Acres)

 Soils Data:

Co - Commerce silty clay loam

Sc - Sharkey clay, 0 to 1 percent slopes, rarely flooded, south

Reference

Base map comprised of Bing Maps aerial imagery from (c) 2017 Microsoft Corporation and its data suppliers. Soils data obtained from Natural Resources Conservation Service (NRCS) data-server.

Soils Map

Wetland Data Report
Ascension Parish, Louisiana

Baton Rouge Area Chamber
Foti Highway 70 Project



PROVIDENCE

| | | |
|-------------|-----|----------|
| Drawn By | LMM | 09/11/17 |
| Checked By | LMH | 09/11/17 |
| Approved By | TCK | 09/11/17 |

| |
|---------------------------------|
| Project Number 1204-002 |
| Drawing Number 1204-002-A004 |

4
Figure

EXHIBIT 1

COPIES OF SITE PHOTOGRAPHS

Baton Rouge Area Chamber

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #1A

Direction:

N/A

Comments:

View of soil profile at
Sample Location 1.



Photograph #1B

Direction:

Northeast

Comments:

View of habitat and
typical landscape
features at Sample
Location 1.



Baton Rouge Area Chamber

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #2A

Direction:

N/A

Comments:

View of soil profile at Sample Location 2.



Photograph #2B

Direction:

North

Comments:

View of habitat and typical landscape features at Sample Location 2.



Baton Rouge Area Chamber

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #3A

Direction:

N/A

Comments:

View of soil profile at
Sample Location 3.



Photograph #3B

Direction:

North

Comments:

View of habitat and
typical landscape
features at Sample
Location 3.



Baton Rouge Area Chamber

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #4A

Direction:

N/A

Comments:

View of soil profile at Sample Location 4.



Photograph #4B

Direction:

South

Comments:

View of habitat and typical landscape features at Sample Location 4.



Baton Rouge Area Chamber

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #5A

Direction:

N/A

Comments:

View of soil profile at
Sample Location 5.

No soil sample collected due to inundation.

Photograph #5B

Direction:

South

Comments:

View of habitat and
typical landscape
features at Sample
Location 5.



BATON ROUGE AREA CHAMBER

| | |
|-----------------------|-----------------------------|
| Site Name: | Foti Highway 70 |
| Site Location: | Ascension Parish, Louisiana |
| Date: | September 1, 2017 |

Photograph #6A

Direction:

N/A

Comments:

View of soil profile at
Sample Location 6.

No soil sample collected due to inundation.

Photograph #6B

Direction:

North

Comments:

View of habitat and
typical landscape
features at Sample
Location 6.



EXHIBIT 2

**ROUTINE WETLAND DETERMINATION DATA FORMS –
ATLANTIC AND GULF COASTAL PLAIN REGION**

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | | | |
|--|--------------------------|-----------------|--|---|-----------------|----------|----|
| Project/Site: | Foti Highway 70 | | Parish: | Ascension | Sampling Date: | 9/1/2017 | |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: | Louisiana | Sampling Point: | 1 | |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 104, Township 11 South, Range 15 East | | | |
| Landform (hillslope, terrace, etc.): | Flat | | Local Relief (concave, convex, none): | None | | Slope: | 0% |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.090242° | Long: -90.936419° | Datum: NAD83 | | | |
| Soil Map Unit Name: | Commerce silty clay loam | | NW1 Classification: | | None | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks) | | | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | Are "Normal Circumstances" present? | | Yes | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | (If needed, explain any answers in Remarks.) | | | | |

SUMMARY OF FINDINGS

| | | | |
|---------------------------------|-----|---------------------------------------|----|
| Hydrophytic Vegetation Present? | No | Is the Sampled Area within a Wetland? | No |
| Hydric Soil Present? | Yes | | |
| Wetland Hydrology Present? | No | | |
| Remarks: | | | |

HYDROLOGY

| | | | | | | | |
|-------------------------------------|-----------------------------------|----|-------------------------------------|---------------------------------------|------------------------------------|--|--|
| Wetland Hydrology Indicators | | | | Secondary Indicators (Need 2): | | | |
| Primary Indicators (Need 1): | | | | No Surface Soil Cracked (B6) | | | |
| No | Surface Water (A1) | No | Water Stained Leaves (B9) | No | Sparsely Veg. Concave Surface (B8) | | |
| No | High Water Table (A2) | No | Aquatic Fauna (B13) | No | Drainage Patterns (B10) | | |
| No | Saturation (A3) | No | Marl Deposits (B15) (LRR U) | No | Moss Trim Lines (B16) | | |
| No | Water Marks (B1) | No | Hydrogen Sulfide Odor (C1) | No | Dry-Season Water Table (C2) | | |
| No | Sediment Deposits (B2) | No | Oxidized Root Channels (C3) | No | Crayfish Burrows (C8) | | |
| No | Drift Deposits (B3) | No | Presence of Reduced Iron (C4) | No | Saturation on Aerial Imagery (C9) | | |
| No | Algal Mat or Crust (B4) | No | Recent Reduct. in Tilled Soils (C6) | No | Geomorphic Position (D2) | | |
| No | Iron Deposits (B5) | No | Thin Muck Surface (C7) | No | Shallow Aquitard (D3) | | |
| No | Inundation on Aerial Imagery (B7) | No | Other (Explain in Remarks) | No | FAC-Neutral Test (D5) | | |
| | | | | No | Sphagnum Moss (D8) (LRR T, U) | | |

| | | | | |
|----------------------------|------|-----------------|-----|---|
| Field Observations: | | | | Wetland Hydrology Present? <u>No</u> |
| Surface Water Present? | None | Depth (inches): | N/A | |
| Water table Present? | None | Depth (inches): | N/A | |
| Saturation Present? | None | Depth (inches): | N/A | |
| Remarks: | | | | |

SOIL

| Depth Inches | Matrix | | Redox Features | | | | Texture |
|-----------------|----------|-----|----------------|---|------|----------|------------|
| | Color | % | Color | % | Type | Location | |
| 0-3 | 10YR 4/2 | 100 | | | | | silty clay |
| 3-16 | 10YR 5/2 | 95 | 2.5YR 4/6 | 5 | C | M | silty clay |
| | | | | | | | |
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| | | | | | | | |

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

Location: PL=Pore Lining, M=Matrix

| | | | | | | | |
|--------------------------------|---------------------------------------|-----|--|--|--|--|--|
| Hydric Soil Indicators: | | | | Indicators for Problematic Soils: | | | |
| No | Histol (A1) | No | Polyvalue Below Surface (S8) (LRR S,T,U) | No | 1cm Muck (A9) (LRR O) | | |
| No | Histic Epipedon (A2) | No | Thin Dark Surface (S9) (LRR S,T,U) | No | 2cm Muck (A10) (LRR S) | | |
| No | Black Histic (A3) | No | Loamy Mucky Mineral (F1) (LRR O) | No | Reduced Vertic (F18) (outside MLRA 150A,B) | | |
| No | Hydrogen Sulfide (A4) | No | Loamy Gleyed Matrix (F2) | No | Piedmont Floodplain Soils (F19) (LRR P,S,T) | | |
| No | Stratified Layers (A5) | Yes | Depleted Matrix (F3) | No | Anomalous Bright Loamy Soils (F20) (MLRA 153B) | | |
| No | Organic Bodies (A6) (LRR P,T,U) | No | Redox Dark Surface (F6) | No | Red Parent Material (TF2) | | |
| No | 5cm Mucky Mineral (A7) (LRR P,T,U) | No | Depleted Dark Surface (F7) | No | Very Shallow Dark Surface (TF12) | | |
| No | Muck Presence (A8) (LRR U) | No | Redox Depressions (F8) | No | Other (Explain) | | |
| No | 1cm Muck (A9) (LRR P,T) | No | Marl (F10) (LRR U) | | | | |
| No | Depleted Below Dark Surface (A11) | No | Depleted Ochric (F11) (MLRA 151) | | | | |
| No | Thick Dark Surface (A12) | No | Iron-Manganese Masses (F12) (LRR O,P,T) | | | | |
| No | Coast Prairie Redox (A16) (MLRA 150A) | No | Umbric Surface (F13) (LRR P, T, U) | | | | |
| No | Sandy Mucky Mineral (S1) (LRR O,S) | No | Delta Ochric (F17) (MLRA 151) | | | | |
| No | Sandy Gleyed Matrix (S4) | No | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | |
| No | Sandy Redox (S5) | No | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | |
| No | Stripped Matrix S6) | No | Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) | | | | |
| No | Dark Surface (S7) (LRR P, S, T, U) | | | | | | |

| | | |
|---|------|------------------------------------|
| Restrictive Layer (if observed): | | Hydric Soil Present? <u>Yes</u> |
| Type: | None | |
| Depth inches: | None | |
| Remarks: | | |

VEGETATION

SAMPLING POINT

1

| Tree Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | Dominance Test Worksheet: Number of Dominant Species That are OBL, FACW, or FAC (A): <u>1</u> Total Number of Dominant Species Across All Strata <u>2</u> Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>50.00%</u> |
|---|----------------|---------------------|---------------------|------------------|---|
| None | | | | | |
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| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Prevalence Index Worksheet: Total % Cover of: <u>Multiply</u> OBL x1= _____ FACW x2= _____ FAC x3= _____ FACU x4= _____ UPL x5= _____ A Totals B _____ Prevalence Index (B/A)= _____ Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Veg: <u>No</u> Dominance Test > 50%: <u>No</u> Prevalence Index is ≤3.0: <u>N/A</u> Problematic Hydrophytic Veg: <u>No</u> |
| Sapling Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
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| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH. Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH. Shrub - Woody plants, excluding woody vines, approximately 3-20' in height. Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height. Woody vine - All woody vines, regardless of height. |
| Shrub Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Remarks: |
| Herb Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| <i>Andropogon gerardii</i> | | 60 | Yes | FAC | |
| <i>Sorghum halepense</i> | | 40 | Yes | FACU | |
| <i>Solidago altissima</i> | | 20 | No | FACU | |
| <i>Paspalum notatum</i> | | 20 | No | FACU | |
| <i>Ipomoea cordatotriloda</i> | | 15 | No | FACU | |
| | | | | | |
| | | | | | |
| | | | | | |
| <u>155</u> = Total Cover 50/20 Threshold 50% of Total Cover = 77.5 20% of Total Cover = 31 | | | | | Hydrophytic Vegetation Present? <u>No</u> |
| Woody Vine Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | |

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | | | |
|--|--|-----------------|--|---|-----------------|-------------|--|
| Project/Site: | Foti Highway 70 | | Parish: | Ascension | Sampling Date: | 9/1/2017 | |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: | Louisiana | Sampling Point: | 2 | |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 104, Township 11 South, Range 15 East | | | |
| Landform (hillslope, terrace, etc.): | Flat | | Local Relief (concave, convex, none): | None | | Slope: 0-1% | |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.091111° | Long: -90.936498° | Datum: NAD83 | | | |
| Soil Map Unit Name: | Sharkey clay, 0 to 1 percent slopes, rarely flooded, south | | NW1 Classification: None | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks) | | | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | Are "Normal Circumstances" present? | | Yes | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | (If needed, explain any answers in Remarks.) | | | | |

SUMMARY OF FINDINGS

| | | | |
|---------------------------------|-----|--|-----------|
| Hydrophytic Vegetation Present? | No | Is the Sampled Area within a Wetland? | No |
| Hydric Soil Present? | Yes | | |
| Wetland Hydrology Present? | Yes | | |
| Remarks: | | | |

HYDROLOGY

| | | | | | | | |
|---|---|--|--|---|--|--|--|
| Wetland Hydrology Indicators | | | | Secondary Indicators (Need 2): | | | |
| Primary Indicators (Need 1): | | | | <input type="checkbox"/> No Surface Soil Cracked (B6) <input type="checkbox"/> No Sparsely Veg. Concave Surface (B8) <input type="checkbox"/> No Drainage Patterns (B10) <input type="checkbox"/> No Moss Trim Lines (B16) <input type="checkbox"/> No Dry-Season Water Table (C2) <input type="checkbox"/> No Crayfish Burrows (C8) <input type="checkbox"/> No Saturation on Aerial Imagery (C9) <input type="checkbox"/> No Geomorphic Position (D2) <input type="checkbox"/> No Shallow Aquitard (D3) <input type="checkbox"/> No FAC-Neutral Test (D5) <input type="checkbox"/> No Sphagnum Moss (D8) (LRR T, U) | | | |
| <input type="checkbox"/> No Surface Water (A1) | <input type="checkbox"/> No Water Stained Leaves (B9) | | | | | | |
| <input type="checkbox"/> No High Water Table (A2) | <input type="checkbox"/> No Aquatic Fauna (B13) | | | | | | |
| <input type="checkbox"/> No Saturation (A3) | <input type="checkbox"/> No Marl Deposits (B15) (LRR U) | | | | | | |
| <input type="checkbox"/> No Water Marks (B1) | <input type="checkbox"/> No Hydrogen Sulfide Odor (C1) | | | | | | |
| <input type="checkbox"/> No Sediment Deposits (B2) | <input type="checkbox"/> Yes Oxidized Root Channels (C3) | | | | | | |
| <input type="checkbox"/> No Drift Deposits (B3) | <input type="checkbox"/> No Presence of Reduced Iron (C4) | | | | | | |
| <input type="checkbox"/> No Algal Mat or Crust (B4) | <input type="checkbox"/> No Recent Reduct. in Tilled Soils (C6) | | | | | | |
| <input type="checkbox"/> No Iron Deposits (B5) | <input type="checkbox"/> No Thin Muck Surface (C7) | | | | | | |
| <input type="checkbox"/> No Inundation on Aerial Imagery (B7) | <input type="checkbox"/> No Other (Explain in Remarks) | | | | | | |

| | | | | | |
|----------------------------|------|-----------------|-----|-----------------------------------|--|
| Field Observations: | | | | Wetland Hydrology Present? | |
| Surface Water Present? | None | Depth (inches): | N/A | Yes | |
| Water table Present? | Yes | Depth (inches): | N/A | | |
| Saturation Present? | Yes | Depth (inches): | N/A | | |
| Remarks: | | | | | |

SOIL

| Depth Inches | Matrix | | Redox Features | | | | Texture |
|-----------------|----------|-----|----------------|----|------|----------|---------|
| | Color | % | Color | % | Type | Location | |
| 0-10 | 10YR 4/2 | 100 | | | | | clay |
| 10-16 | 10YR 4/2 | 70 | 2.5YR 2.5/4 | 25 | C | M | clay |
| | | | 2.5YR 2.5/4 | 5 | C | PL | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| Hydric Soil Indicators: | | | | Indicators for Problematic Soils: | | | |
| <input type="checkbox"/> No Histol (A1) | <input type="checkbox"/> No Polyvalue Below Surface (S8) (LRR S,T,U) | | | <input type="checkbox"/> No 1cm Muck (A9) (LRR O) | | | |
| <input type="checkbox"/> No Histic Epipedon (A2) | <input type="checkbox"/> No Thin Dark Surface (S9) (LRR S,T,U) | | | <input type="checkbox"/> No 2cm Muck (A10) (LRR S) | | | |
| <input type="checkbox"/> No Black Histic (A3) | <input type="checkbox"/> No Loamy Mucky Mineral (F1) (LRR O) | | | <input type="checkbox"/> No Reduced Vertic (F18) (outside MLRA 150A,B) | | | |
| <input type="checkbox"/> No Hydrogen Sulfide (A4) | <input type="checkbox"/> No Loamy Gleyed Matrix (F2) | | | <input type="checkbox"/> No Piedmont Floodplain Soils (F19) (LRR P,S,T) | | | |
| <input type="checkbox"/> No Stratified Layers (A5) | <input type="checkbox"/> Yes Depleted Matrix (F3) | | | <input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MLRA 153B) | | | |
| <input type="checkbox"/> No Organic Bodies (A6) (LRR P,T,U) | <input type="checkbox"/> No Redox Dark Surface (F6) | | | <input type="checkbox"/> No Red Parent Material (TF2) | | | |
| <input type="checkbox"/> No 5cm Mucky Mineral (A7) (LRR P,T,U) | <input type="checkbox"/> No Depleted Dark Surface (F7) | | | <input type="checkbox"/> No Very Shallow Dark Surface (TF12) | | | |
| <input type="checkbox"/> No Muck Presence (A8) (LRR U) | <input type="checkbox"/> No Redox Depressions (F8) | | | <input type="checkbox"/> No Other (Explain) | | | |
| <input type="checkbox"/> No 1cm Muck (A9) (LRR P,T) | <input type="checkbox"/> No Marl (F10) (LRR U) | | | | | | |
| <input type="checkbox"/> No Depleted Below Dark Surface (A11) | <input type="checkbox"/> No Depleted Ochric (F11) (MLRA 151) | | | | | | |
| <input type="checkbox"/> No Thick Dark Surface (A12) | <input type="checkbox"/> No Iron-Manganese Masses (F12) (LRR O,P,T) | | | | | | |
| <input type="checkbox"/> No Coast Prairie Redox (A16) (MLRA 150A) | <input type="checkbox"/> No Umbric Surface (F13) (LRR P, T, U) | | | | | | |
| <input type="checkbox"/> No Sandy Mucky Mineral (A1) (MLRA O,S) | <input type="checkbox"/> No Delta Ochric (F17) (MLRA 151) | | | | | | |
| <input type="checkbox"/> No Sandy Gleyed Matrix (S4) | <input type="checkbox"/> No Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | |
| <input type="checkbox"/> No Sandy Redox (S5) | <input type="checkbox"/> No Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | |
| <input type="checkbox"/> No Stripped Matrix S6) | <input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) | | | | | | |
| <input type="checkbox"/> No Dark Surface (S7) (LRR P, S, T, U) | | | | | | | |

| | | |
|---|------|-----------------------------|
| Restrictive Layer (if observed): | | Hydric Soil Present? |
| Type: | None | |
| Depth inches: | None | |
| Yes | | |

| |
|----------|
| Remarks: |
|----------|

SAMPLING POINT

[illegible]

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | | | |
|--|--------------------------|-----------------|---------------------------------------|---|-----------------|----------|----|
| Project/Site: | Foti Highway 70 | | Parish: | Ascension | Sampling Date: | 9/1/2017 | |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: | Louisiana | Sampling Point: | 3 | |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 105, Township 11 South, Range 15 East | | | |
| Landform (hillslope, terrace, etc.): | Flat | | Local Relief (concave, convex, none): | None | | Slope: | 0% |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.091809° | Long: -90.935991° | Datum: NAD83 | | | |
| Soil Map Unit Name: | Commerce silty clay loam | | NW1 Classification: | | None | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks) | | | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | | Are "Normal Circumstances" present? | | Yes | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | | (If needed, explain any answers in Remarks.) | | | |

SUMMARY OF FINDINGS

| | | | |
|---------------------------------|-----|---------------------------------------|----|
| Hydrophytic Vegetation Present? | No | Is the Sampled Area within a Wetland? | No |
| Hydric Soil Present? | Yes | | |
| Wetland Hydrology Present? | No | | |
| Remarks: | | | |

HYDROLOGY

| | | | | | | | |
|---|---|--|--|---|--|--|--|
| Wetland Hydrology Indicators | | | | Secondary Indicators (Need 2): | | | |
| Primary Indicators (Need 1): | | | | <input type="checkbox"/> No Surface Soil Cracked (B6) <input type="checkbox"/> No Sparsely Veg. Concave Surface (B8) <input type="checkbox"/> No Drainage Patterns (B10) <input type="checkbox"/> No Moss Trim Lines (B16) <input type="checkbox"/> No Dry-Season Water Table (C2) <input type="checkbox"/> No Crayfish Burrows (C8) <input type="checkbox"/> No Saturation on Aerial Imagery (C9) <input type="checkbox"/> No Geomorphic Position (D2) <input type="checkbox"/> No Shallow Aquitard (D3) <input type="checkbox"/> No FAC-Neutral Test (D5) <input type="checkbox"/> No Sphagnum Moss (D8) (LRR T, U) | | | |
| <input type="checkbox"/> No Surface Water (A1) | <input type="checkbox"/> No Water Stained Leaves (B9) | | | | | | |
| <input type="checkbox"/> No High Water Table (A2) | <input type="checkbox"/> No Aquatic Fauna (B13) | | | | | | |
| <input type="checkbox"/> No Saturation (A3) | <input type="checkbox"/> No Marl Deposits (B15) (LRR U) | | | | | | |
| <input type="checkbox"/> No Water Marks (B1) | <input type="checkbox"/> No Hydrogen Sulfide Odor (C1) | | | | | | |
| <input type="checkbox"/> No Sediment Deposits (B2) | <input type="checkbox"/> No Oxidized Root Channels (C3) | | | | | | |
| <input type="checkbox"/> No Drift Deposits (B3) | <input type="checkbox"/> No Presence of Reduced Iron (C4) | | | | | | |
| <input type="checkbox"/> No Algal Mat or Crust (B4) | <input type="checkbox"/> No Recent Reduct. in Tilled Soils (C6) | | | | | | |
| <input type="checkbox"/> No Iron Deposits (B5) | <input type="checkbox"/> No Thin Muck Surface (C7) | | | | | | |
| <input type="checkbox"/> No Inundation on Aerial Imagery (B7) | <input type="checkbox"/> No Other (Explain in Remarks) | | | | | | |

| | | | | |
|----------------------------|------|-----------------|-----|---|
| Field Observations: | | | | Wetland Hydrology Present? <u>No</u> |
| Surface Water Present? | None | Depth (inches): | N/A | |
| Water table Present? | None | Depth (inches): | N/A | |
| Saturation Present? | None | Depth (inches): | N/A | |
| Remarks: | | | | |

SOIL

| Depth Inches | Matrix | | Redox Features | | | | Texture |
|-----------------|----------|----|----------------|---|------|----------|------------|
| | Color | % | Color | % | Type | Location | |
| 0-16 | 10YR 4/2 | 95 | 7.5YR 5/6 | 2 | C | M | silty clay |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| Hydric Soil Indicators: | | | | Indicators for Problematic Soils: | | | |
| <input type="checkbox"/> No Histol (A1) | <input type="checkbox"/> No Polyvalue Below Surface (S8) (LRR S,T,U) | | | <input type="checkbox"/> No 1cm Muck (A9) (LRR O) | | | |
| <input type="checkbox"/> No Histic Epipedon (A2) | <input type="checkbox"/> No Thin Dark Surface (S9) (LRR S,T,U) | | | <input type="checkbox"/> No 2cm Muck (A10) (LRR S) | | | |
| <input type="checkbox"/> No Black Histic (A3) | <input type="checkbox"/> No Loamy Mucky Mineral (F1) (LRR O) | | | <input type="checkbox"/> No Reduced Vertic (F18) (outside MLRA 150A,B) | | | |
| <input type="checkbox"/> No Hydrogen Sulfide (A4) | <input type="checkbox"/> No Loamy Gleyed Matrix (F2) | | | <input type="checkbox"/> No Piedmont Floodplain Soils (F19) (LRR P,S,T) | | | |
| <input type="checkbox"/> No Stratified Layers (A5) | <input type="checkbox"/> Yes Depleted Matrix (F3) | | | <input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MLRA 153B) | | | |
| <input type="checkbox"/> No Organic Bodies (A6) (LRR P,T,U) | <input type="checkbox"/> No Redox Dark Surface (F6) | | | <input type="checkbox"/> No Red Parent Material (TF2) | | | |
| <input type="checkbox"/> No 5cm Mucky Mineral (A7) (LRR P,T,U) | <input type="checkbox"/> No Depleted Dark Surface (F7) | | | <input type="checkbox"/> No Very Shallow Dark Surface (TF12) | | | |
| <input type="checkbox"/> No Muck Presence (A8) (LRR U) | <input type="checkbox"/> No Redox Depressions (F8) | | | <input type="checkbox"/> No Other (Explain) | | | |
| <input type="checkbox"/> No 1cm Muck (A9) (LRR P,T) | <input type="checkbox"/> No Marl (F10) (LRR U) | | | | | | |
| <input type="checkbox"/> No Depleted Below Dark Surface (A11) | <input type="checkbox"/> No Depleted Ochric (F11) (MLRA 151) | | | | | | |
| <input type="checkbox"/> No Thick Dark Surface (A12) | <input type="checkbox"/> No Iron-Manganese Masses (F12) (LRR O,P,T) | | | | | | |
| <input type="checkbox"/> No Coast Prairie Redox (A16) (MLRA 150A) | <input type="checkbox"/> No Umbric Surface (F13) (LRR P, T, U) | | | | | | |
| <input type="checkbox"/> No Sandy Mucky Mineral (S1) (LRR O,S) | <input type="checkbox"/> No Delta Ochric (F17) (MLRA 151) | | | | | | |
| <input type="checkbox"/> No Sandy Gleyed Matrix (S4) | <input type="checkbox"/> No Reduced Vertic (F18) (MLRA 150A, 150B) | | | | | | |
| <input type="checkbox"/> No Sandy Redox (S5) | <input type="checkbox"/> No Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | | | |
| <input type="checkbox"/> No Stripped Matrix (S6) | <input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) | | | | | | |
| <input type="checkbox"/> No Dark Surface (S7) (LRR P, S, T, U) | | | | | | | |

| | | |
|---|-------------|------------------------------------|
| Restrictive Layer (if observed): | | Hydric Soil Present? <u>Yes</u> |
| Type: | <u>None</u> | |
| Depth inches: | <u>None</u> | |
| Remarks: | | |

SAMPLING POINT

PROVIDENCE

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | | | |
|--|--------------------------|-----------------|--|---|-----------------|----------|----|
| Project/Site: | Foti Highway 70 | | Parish: | Ascension | Sampling Date: | 9/1/2017 | |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: | Louisiana | Sampling Point: | 4 | |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 105, Township 11 South, Range 15 East | | | |
| Landform (hillslope, terrace, etc.): | Flat | | Local Relief (concave, convex, none): | None | | Slope: | 0% |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.093086° | Long: -90.935731° | Datum: NAD83 | | | |
| 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 (If no explain in Remarks) | | | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | Are "Normal Circumstances" present? | | Yes | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | (If needed, explain any answers in Remarks.) | | | | |

SUMMARY OF FINDINGS

| | | | |
|---------------------------------|----|---------------------------------------|----|
| Hydrophytic Vegetation Present? | No | Is the Sampled Area within a Wetland? | No |
| Hydric Soil Present? | No | | |
| Wetland Hydrology Present? | No | | |
| Remarks: | | | |

HYDROLOGY

| | | | | | | | |
|-------------------------------------|-----------------------------------|------|-------------------------------------|---------------------------------------|---|--|--|
| Wetland Hydrology Indicators | | | | Secondary Indicators (Need 2): | | | |
| Primary Indicators (Need 1): | | | | No Surface Soil Cracked (B6) | | | |
| No | Surface Water (A1) | No | Water Stained Leaves (B9) | No | Sparsely Veg. Concave Surface (B8) | | |
| No | High Water Table (A2) | No | Aquatic Fauna (B13) | No | Drainage Patterns (B10) | | |
| No | Saturation (A3) | No | Marl Deposits (B15) (LRR U) | No | Moss Trim Lines (B16) | | |
| No | Water Marks (B1) | No | Hydrogen Sulfide Odor (C1) | No | Dry-Season Water Table (C2) | | |
| No | Sediment Deposits (B2) | No | Oxidized Root Channels (C3) | No | Crayfish Burrows (C8) | | |
| No | Drift Deposits (B3) | No | Presence of Reduced Iron (C4) | No | Saturation on Aerial Imagery (C9) | | |
| No | Algal Mat or Crust (B4) | No | Recent Reduct. in Tilled Soils (C6) | No | Geomorphic Position (D2) | | |
| No | Iron Deposits (B5) | No | Thin Muck Surface (C7) | No | Shallow Aquitard (D3) | | |
| No | Inundation on Aerial Imagery (B7) | No | Other (Explain in Remarks) | No | FAC-Neutral Test (D5) | | |
| | | | | No | Sphagnum Moss (D8) (LRR T, U) | | |
| Field Observations: | | | | | | | |
| Surface Water Present? | | Yes | Depth (inches): | N/A | Wetland Hydrology Present? <u>No</u> | | |
| Water table Present? | | None | Depth (inches): | N/A | | | |
| Saturation Present? | | None | Depth (inches): | N/A | | | |
| Remarks: | | | | | | | |

SOIL

| Depth Inches | Matrix | | Redox Features | | | | Texture |
|-----------------|----------|-----|----------------|---|------|----------|------------|
| | Color | % | Color | % | Type | Location | |
| 0-16 | 10YR 4/3 | 100 | | | | | silty clay |
| | | | | | | | |
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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

| | |
|----|---------------------------------------|
| No | Histol (A1) |
| No | Histic Epipedon (A2) |
| No | Black Histic (A3) |
| No | Hydrogen Sulfide (A4) |
| No | Stratified Layers (A5) |
| No | Organic Bodies (A6) (LRR P,T,U) |
| No | 5cm Mucky Mineral (A7) (LRR P,T,U) |
| No | Muck Presence (A8) (LRR U) |
| No | 1cm Muck (A9) (LRR P,T) |
| No | Depleted Below Dark Surface (A11) |
| No | Thick Dark Surface (A12) |
| No | Coast Prairie Redox (A16) (MLRA 150A) |
| No | Sandy Mucky Mineral (S1) (LRR O,S) |
| No | Sandy Gleyed Matrix (S4) |
| No | Sandy Redox (S5) |
| No | Stripped Matrix S6) |
| No | Dark Surface (S7) (LRR P, S, T, U) |

| | |
|----|--|
| No | Polyvalue Below Surface (S8) (LRR S,T,U) |
| No | Thin Dark Surface (S9) (LRR S,T,U) |
| No | Loamy Mucky Mineral (F1) (LRR O) |
| No | Loamy Gleyed Matrix (F2) |
| No | Depleted Matrix (F3) |
| No | Redox Dark Surface (F6) |
| No | Depleted Dark Surface (F7) |
| No | Redox Depressions (F8) |
| No | Marl (F10) (LRR U) |
| No | Depleted Ochric (F11) (MLRA 151) |
| No | Iron-Manganese Masses (F12) (LRR O,P,T) |
| No | Umbric Surface (F13) (LRR P, T, U) |
| No | Delta Ochric (F17) (MLRA 151) |
| No | Reduced Vertic (F18) (MLRA 150A, 150B) |
| No | Piedmont Floodplain Soils (F19) (MLRA 149A) |
| No | Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) |

Indicators for Problematic Soils:

| | |
|----|--|
| No | 1cm Muck (A9) (LRR O) |
| No | 2cm Muck (A10) (LRR S) |
| No | Reduced Vertic (F18) (outside MLRA 150A,B) |
| No | Piedmont Floodplain Soils (F19) (LRR P,S,T) |
| No | Anomalous Bright Loamy Soils (F20) (MLRA 153B) |
| No | Red Parent Material (TF2) |
| No | Very Shallow Dark Surface (TF12) |
| No | Other (Explain) |

Restrictive Layer (if observed):

| | |
|---------------|------|
| Type: | None |
| Depth inches: | None |

Hydric Soil Present?

No

Remarks:

Fill in profile.

VEGETATION

SAMPLING POINT

4

| Tree Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | Dominance Test Worksheet: Number of Dominant Species That are OBL, FACW, or FAC (A): <u>1</u> Total Number of Dominant Species Across All Strata <u>2</u> Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>50.00%</u> |
|---|----------------|---------------------|---------------------|------------------|---|
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply <u> </u> OBL x1= <u> </u> FACW x2= <u> </u> FAC x3= <u> </u> FACU x4= <u> </u> UPL x5= <u> </u> A Totals B <u> </u> Prevalence Index (B/A)= <u> </u> Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Veg: <u>No</u> Dominance Test > 50%: <u>No</u> Prevalence Index is ≤3.0: <u>N/A</u> Problematic Hydrophytic Veg: <u>No</u> |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | |
| Sapling Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH. Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH. Shrub - Woody plants, excluding woody vines, approximately 3-20' in height. Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height. Woody vine - All woody vines, regardless of height. |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | |
| Shrub Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Remarks: |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | |
| Herb Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| <i>Andropogon gerardii</i> | | 60 | Yes | FAC | |
| <i>Sorghum halepense</i> | | 40 | Yes | FACU | |
| <i>Solidago altissima</i> | | 20 | No | FACU | |
| <i>Paspalum notatum</i> | | 20 | No | FACU | |
| <i>Ipomoea cordatotriloda</i> | | 15 | No | FACU | |
| | | | | | |
| | | | | | |
| <u>155</u> = Total Cover 50/20 Threshold 50% of Total Cover = 77.5 20% of Total Cover = 31 | | | | | |
| Woody Vine Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | |
| None | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| <u>0</u> = Total Cover 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 | | | | | Hydrophytic Vegetation Present? <u>No</u> |

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | | | |
|--|--------------------------|-----------------|---------------------------------------|---|-----------------|-----------|--|
| Project/Site: | Foti Highway 70 | | Parish: | Ascension | Sampling Date: | 9/1/2017 | |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: | Louisiana | Sampling Point: | 5 | |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 105, Township 11 South, Range 15 East | | | |
| Landform (hillslope, terrace, etc.): | Flat | | Local Relief (concave, convex, none): | None | | Slope: 0% | |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.092805° | Long: -90.936717° | Datum: NAD83 | | | |
| Soil Map Unit Name: | Commerce silty clay loam | | NW1 Classification: | | None | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks) | | | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | | Are "Normal Circumstances" present? | | Yes | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | | (If needed, explain any answers in Remarks.) | | | |

| | |
|---|-----|
| SUMMARY OF FINDINGS | |
| Hydrophytic Vegetation Present? | Yes |
| Hydric Soil Present? | Yes |
| Wetland Hydrology Present? | Yes |
| Remarks: | |
| Is the Sampled Area within a Wetland? Yes | |

| | | | |
|-------------------------------------|-----------------------------------|--|-------------------------------------|
| HYDROLOGY | | | |
| Wetland Hydrology Indicators | | Secondary Indicators (Need 2): | |
| Primary Indicators (Need 1): | | <input type="checkbox"/> No Surface Soil Cracked (B6) <input type="checkbox"/> No Sparsely Veg. Concave Surface (B8) <input type="checkbox"/> No Drainage Patterns (B10) <input type="checkbox"/> No Moss Trim Lines (B16) <input type="checkbox"/> No Dry-Season Water Table (C2) <input type="checkbox"/> No Crayfish Burrows (C8) <input type="checkbox"/> No Saturation on Aerial Imagery (C9) <input type="checkbox"/> No Geomorphic Position (D2) <input type="checkbox"/> No Shallow Aquitard (D3) <input type="checkbox"/> Yes FAC-Neutral Test (D5) <input type="checkbox"/> No Sphagnum Moss (D8) (LRR T, U) | |
| Yes | Surface Water (A1) | No | Water Stained Leaves (B9) |
| No | High Water Table (A2) | No | Aquatic Fauna (B13) |
| No | Saturation (A3) | No | Marl Deposits (B15) (LRR U) |
| No | Water Marks (B1) | No | Hydrogen Sulfide Odor (C1) |
| No | Sediment Deposits (B2) | No | Oxidized Root Channels (C3) |
| No | Drift Deposits (B3) | No | Presence of Reduced Iron (C4) |
| No | Algal Mat or Crust (B4) | No | Recent Reduct. in Tilled Soils (C6) |
| No | Iron Deposits (B5) | No | Thin Muck Surface (C7) |
| No | Inundation on Aerial Imagery (B7) | No | Other (Explain in Remarks) |

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|----------------------------|------|-----------------|-----|-----------------------------------|--|
| Field Observations: | | | | Wetland Hydrology Present? | |
| Surface Water Present? | None | Depth (inches): | 2 | Yes | |
| Water table Present? | None | Depth (inches): | N/A | | |
| Saturation Present? | None | Depth (inches): | N/A | | |
| Remarks: | | | | | |

| SOIL | | | | | | | |
|-----------------|--------|---|----------------|---|------|----------|--|
| Depth Inches | Matrix | | Redox Features | | | Texture | |
| | Color | % | Color | % | Type | Location | |
| N/A | | | | | | | |
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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

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|--------------------------------|---------------------------------------|----|--|--|--|--|--|
| Hydric Soil Indicators: | | | | Indicators for Problematic Soils: | | | |
| No | Histol (A1) | No | Polyvalue Below Surface (S8) (LRR S,T,U) | No | 1cm Muck (A9) (LRR O) | | |
| No | Histic Epipedon (A2) | No | Thin Dark Surface (S9) (LRR S,T,U) | No | 2cm Muck (A10) (LRR S) | | |
| No | Black Histic (A3) | No | Loamy Mucky Mineral (F1) (LRR O) | No | Reduced Vertic (F18) (outside MLRA 150A,B) | | |
| No | Hydrogen Sulfide (A4) | No | Loamy Gleyed Matrix (F2) | No | Piedmont Floodplain Soils (F19) (LRR P,S,T) | | |
| No | Stratified Layers (A5) | No | Depleted Matrix (F3) | No | Anomalous Bright Loamy Soils (F20) (MLRA 153B) | | |
| No | Organic Bodies (A6) (LRR P,T,U) | No | Redox Dark Surface (F6) | No | Red Parent Material (TF2) | | |
| No | 5cm Mucky Mineral (A7) (LRR P,T,U) | No | Depleted Dark Surface (F7) | No | Very Shallow Dark Surface (TF12) | | |
| No | Muck Presence (A8) (LRR U) | No | Redox Depressions (F8) | No | Other (Explain) | | |
| No | 1cm Muck (A9) (LRR P,T) | No | Marl (F10) (LRR U) | | | | |
| No | Depleted Below Dark Surface (A11) | No | Depleted Ochric (F11) (MLRA 151) | | | | |
| No | Thick Dark Surface (A12) | No | Iron-Manganese Masses (F12) (LRR O,P,T) | | | | |
| No | Coast Prairie Redox (A16) (MLRA 150A) | No | Umbric Surface (F13) (LRR P, T, U) | | | | |
| No | Sandy Mucky Mineral (S1) (LRR O,S) | No | Delta Ochric (F17) (MLRA 151) | | | | |
| No | Sandy Gleyed Matrix (S4) | No | Reduced Vertic (F18) (MLRA 150A, 150B) | | | | |
| No | Sandy Redox (S5) | No | Piedmont Floodplain Soils (F19) (MLRA 149A) | | | | |
| No | Stripped Matrix S6) | No | Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) | | | | |
| No | Dark Surface (S7) (LRR P, S, T, U) | | | | | | |

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| Restrictive Layer (if observed): | | Hydric Soil Present? | |
| Type: | None | Yes | |
| Depth inches: | None | | |

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| Remarks: | |
| No soil sample collected. Soils assumed hydric due to extent and duration of inundation. | |

VEGETATION

SAMPLING POINT

5

| Tree Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator | Status |
|--|----------------|---------------------|---------------------|-----------|--------|
| None | | | | | |
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| <div> <div>0 = Total Cover</div> <div>50/20 Threshold</div> <div>50% of Total Cover = 0</div> <div>20% of Total Cover = 0</div> </div> | | | | | |
| <div> <div>Prevalence Index Worksheet:</div> <div> <div>Number of Dominant Species That are OBL, FACW, or FAC</div> <div>(A): 3</div> </div> <div> <div>Total Number of Dominant Species Across All Strata</div> <div>3</div> </div> <div> <div>Percent of Dominant Species That Are OBL, FACW, or FAC</div> <div>(A/B): 100.00%</div> </div> </div> | | | | | |
| <div> <div>Sapling Stratum</div> <div>Plot Size: 30'</div> <div>Absolute % Cover</div> <div>Dominant Species</div> <div>Indicator</div> <div>Status</div> </div> | | | | | |
| None | | | | | |
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| <div> <div>0 = Total Cover</div> <div>50/20 Threshold</div> <div>50% of Total Cover = 0</div> <div>20% of Total Cover = 0</div> </div> | | | | | |
| <div> <div>Prevalence Index (B/A)=</div> <div>Hydrophytic Vegetation Indicators:</div> <div> <div>Rapid Test for Hydrophytic Veg:</div> <div>No</div> </div> <div> <div>Dominance Test > 50%:</div> <div>Yes</div> </div> <div> <div>Prevalence Index is ≤3.0:</div> <div>N/A</div> </div> <div> <div>Problematic Hydrophytic Veg:</div> <div>No</div> </div> </div> | | | | | |
| <div> <div>Shrub Stratum</div> <div>Plot Size: 30'</div> <div>Absolute % Cover</div> <div>Dominant Species</div> <div>Indicator</div> <div>Status</div> </div> | | | | | |
| None | | | | | |
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| <div> <div>0 = Total Cover</div> <div>50/20 Threshold</div> <div>50% of Total Cover = 0</div> <div>20% of Total Cover = 0</div> </div> | | | | | |
| <div> <div>Herb Stratum</div> <div>Plot Size: 30'</div> <div>Absolute % Cover</div> <div>Dominant Species</div> <div>Indicator</div> <div>Status</div> </div> | | | | | |
| <i>Juncus effusus</i> | | 40 | Yes | OBL | |
| <i>Persicaria pensylvanica</i> | | 30 | Yes | FACW | |
| <i>Eleocharis obtusa</i> | | 20 | Yes | OBL | |
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| <div> <div>90 = Total Cover</div> <div>50/20 Threshold</div> <div>50% of Total Cover = 45</div> <div>20% of Total Cover = 18</div> </div> | | | | | |
| <div> <div>Woody Vine Stratum</div> <div>Plot Size: 30'</div> <div>Absolute % Cover</div> <div>Dominant Species</div> <div>Indicator</div> <div>Status</div> </div> | | | | | |
| None | | | | | |
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| <div> <div>0 = Total Cover</div> <div>50/20 Threshold</div> <div>50% of Total Cover = 0</div> <div>20% of Total Cover = 0</div> </div> | | | | | |
| <div> <div>Remarks:</div> <div> <div>Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH.</div> <div>Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.</div> <div>Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.</div> <div>Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.</div> <div>Woody vine - All woody vines, regardless of height.</div> </div> </div> | | | | | |
| <div> <div>Hydrophytic Vegetation Present?</div> <div>Yes</div> </div> | | | | | |

WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

| | | | | | |
|--|-------------------------------------|---------------------------------------|--|---|-------------|
| Project/Site: | Foti Highway 70 | | Parish: Ascension | Sampling Date: | 9/1/2017 |
| Applicant/Owner: | Baton Rouge Area Chamber | | State: Louisiana | Sampling Point: | 6 |
| Investigator(s): | Tanner Jones, Tim Kimmel | | Section, Township, Range: | Section 105, Township 11 South, Range 15 East | |
| Landform (hillslope, terrace, etc.): | Flat | Local Relief (concave, convex, none): | None | | Slope: 0-1% |
| Subregion (LRR or MLRA): | LRR O | Lat: 30.091918° | Long: -90.936685° | Datum: NAD83 | |
| Soil Map Unit Name: | Sharkey clay, rarely flooded, south | | NWI Classification: None | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks) | | | | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? | | No | Are "Normal Circumstances" present? Yes | | |
| Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? | | No | (If needed, explain any answers in Remarks.) | | |

SUMMARY OF FINDINGS

| | | | |
|---------------------------------|-----|---------------------------------------|-----|
| Hydrophytic Vegetation Present? | Yes | Is the Sampled Area within a Wetland? | Yes |
| Hydric Soil Present? | Yes | | |
| Wetland Hydrology Present? | Yes | | |
| Remarks: | | | |

HYDROLOGY

| Wetland Hydrology Indicators | | | | Secondary Indicators (Need 2): | |
|------------------------------|-----------------------------------|----|-------------------------------------|--------------------------------|------------------------------------|
| Primary Indicators (Need 1): | | | | | |
| Yes | Surface Water (A1) | No | Water Stained Leaves (B9) | No | Surface Soil Cracked (B6) |
| No | High Water Table (A2) | No | Aquatic Fauna (B13) | No | Sparsely Veg. Concave Surface (B8) |
| No | Saturation (A3) | No | Marl Deposits (B15) (LRR U) | No | Drainage Patterns (B10) |
| No | Water Marks (B1) | No | Hydrogen Sulfide Odor (C1) | No | Moss Trim Lines (B16) |
| No | Sediment Deposits (B2) | No | Oxidized Root Channels (C3) | No | Dry-Season Water Table (C2) |
| No | Drift Deposits (B3) | No | Presence of Reduced Iron (C4) | No | Crayfish Burrows (C8) |
| No | Algal Mat or Crust (B4) | No | Recent Reduct. in Tilled Soils (C6) | No | Saturation on Aerial Imagery (C9) |
| No | Iron Deposits (B5) | No | Thin Muck Surface (C7) | No | Geomorphic Position (D2) |
| No | Inundation on Aerial Imagery (B7) | No | Other (Explain in Remarks) | No | Shallow Aquitard (D3) |
| | | | | Yes | FAC-Neutral Test (D5) |
| | | | | No | Sphagnum Moss (D8) (LRR T, U) |

| | | | | | |
|----------------------------|------|-----------------|-----|-----------------------------------|--|
| Field Observations: | | | | Wetland Hydrology Present? | |
| Surface Water Present? | None | Depth (inches): | 2 | <u>Yes</u> | |
| Water table Present? | None | Depth (inches): | N/A | | |
| Saturation Present? | None | Depth (inches): | N/A | | |
| Remarks: | | | | | |

| SOIL | | | | | | |
|-----------------|--------|---|----------------|---|------|----------|
| Depth Inches | Matrix | | Redox Features | | | Texture |
| | Color | % | Color | % | Type | Location |
| N/A | | | | | | |
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Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

| | | | | | |
|--------------------------------|---------------------------------------|----|--|--|--|
| Hydric Soil Indicators: | | | | Indicators for Problematic Soils: | |
| No | Histol (A1) | No | Polyvalue Below Surface (S8) (LRR S,T,U) | No | 1cm Muck (A9) (LRR O) |
| No | Histic Epipedon (A2) | No | Thin Dark Surface (S9) (LRR S,T,U) | No | 2cm Muck (A10) (LRR S) |
| No | Black Histic (A3) | No | Loamy Mucky Mineral (F1) (LRR O) | No | Reduced Vertic (F18) (outside MLRA 150A,B) |
| No | Hydrogen Sulfide (A4) | No | Loamy Gleyed Matrix (F2) | No | Piedmont Floodplain Soils (F19) (LRR P,S,T) |
| No | Stratified Layers (A5) | No | Depleted Matrix (F3) | No | Anomalous Bright Loamy Soils (F20) (MLRA 153B) |
| No | Organic Bodies (A6) (LRR P,T,U) | No | Redox Dark Surface (F6) | No | Red Parent Material (TF2) |
| No | 5cm Mucky Mineral (A7) (LRR P,T,U) | No | Depleted Dark Surface (F7) | No | Very Shallow Dark Surface (TF12) |
| No | Muck Presence (A8) (LRR U) | No | Redox Depressions (F8) | No | Other (Explain) |
| No | 1cm Muck (A9) (LRR P,T) | No | Marl (F10) (LRR U) | | |
| No | Depleted Below Dark Surface (A11) | No | Depleted Ochric (F11) (MLRA 151) | | |
| No | Thick Dark Surface (A12) | No | Iron-Manganese Masses (F12) (LRR O,P,T) | | |
| No | Coast Prairie Redox (A16) (MLRA 150A) | No | Umbric Surface (F13) (LRR P, T, U) | | |
| No | Sandy Mucky Mineral (S1) (LRR O,S) | No | Delta Ochric (F17) (MLRA 151) | | |
| No | Sandy Gleyed Matrix (S4) | No | Reduced Vertic (F18) (MLRA 150A, 150B) | | |
| No | Sandy Redox (S5) | No | Piedmont Floodplain Soils (F19) (MLRA 149A) | | |
| No | Stripped Matrix S6) | No | Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D) | | |
| No | Dark Surface (S7) (LRR P, S, T, U) | | | | |

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| Restrictive Layer (if observed): | | Hydric Soil Present? <u>Yes</u> |
| Type: | None | |
| Depth inches: | None | |

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| Remarks: |
| No soil sample collected. Soils assumed hydric due to extent and duration of inundation. |

VEGETATION

SAMPLING POINT

6

| Tree Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | Dominance Test Worksheet: | |
|---|----------------|---------------------|---------------------|------------------|--|----------------|
| None | | | | | Number of Dominant Species That are OBL, FACW, or FAC | (A): 3 |
| | | | | | Total Number of Dominant Species Across All Strata | 3 |
| | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC | (A/B): 100.00% |
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| _____ 0 _____ = Total Cover <div style="float: right;"> 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 </div> | | | | | Prevalence Index Worksheet: <u>Total % Cover of:</u> _____ <u>Multiply</u> _____ <div style="display: flex; justify-content: space-between;"> <div>OBL</div> <div>x1= _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>FACW</div> <div>x2= _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>FAC</div> <div>x3= _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>FACU</div> <div>x4= _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>UPL</div> <div>x5= _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>A Totals</div> <div>B</div> </div> | |
| | | | | | Prevalence Index (B/A)= _____ | |
| | | | | | Hydrophytic Vegetation Indicators: | |
| | | | | | Rapid Test for Hydrophytic Veg: | No |
| | | | | | Dominance Test > 50%: | Yes |
| | | | | | Prevalence Index is ≤3.0: | N/A |
| | | | | | Problematic Hydrophytic Veg: | No |
| | | | | | Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH. Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH. Shrub - Woody plants, excluding woody vines, approximately 3-20' in height. Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height. Woody vine - All woody vines, regardless of height. | |
| | | | | | _____ 0 _____ = Total Cover <div style="float: right;"> 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 </div> | |
| Shrub Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | | |
| None | | | | | | |
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| _____ 0 _____ = Total Cover <div style="float: right;"> 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 </div> | | | | | | |
| Herb Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | Remarks: | |
| <i>Persicaria pensylvanica</i> | | 30 | Yes | FACW | | |
| <i>Eleocharis obtusa</i> | | 20 | Yes | OBL | | |
| <i>Rhynchospora corniculata</i> | | 15 | Yes | OBL | | |
| <i>Juncus effusus</i> | | 10 | No | OBL | | |
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| _____ 75 _____ = Total Cover <div style="float: right;"> 50/20 Threshold 50% of Total Cover = 37.5 20% of Total Cover = 15 </div> | | | | | | |
| Woody Vine Stratum | Plot Size: 30' | Absolute % Cover | Dominant Species | Indicator Status | | |
| None | | | | | | |
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| _____ 0 _____ = Total Cover <div style="float: right;"> 50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0 </div> | | | | | Hydrophytic Vegetation Present? Yes _____ | |