

WETLAND FINDINGS REPORT
DIJON DRIVE EXTENSION
State Project No.H.012233 – Phase 1
and H.0.12232 – Phase 2

East Baton Rouge Parish
Capital Area Planning Commission
333 N 19th Street
Baton Rouge, LA 70802

July 2016

Prepared by:



17170 Perkins Road
Baton Rouge, LA 70810
225-755-1000

CK Project Number: 12960

TABLE OF CONTENTS

1.0 INTRODUCTION.....
1

2.0 PHYSIOGRAPHY, CLIMATE, AND SITE
DESCRIPTION
2

3.0 METHODS
2

4.0 RESULTS.....
3

5.0 CONCLUSIONS.....
5

6.0 LITERATURE
CITED 6

LIST OF FIGURES

- FIGURE 1 PROJECT LOCATION MAP
FIGURE 2 WETLANDS MAP

ATTACHMENTS

- Attachment A Wetland Determination Data Forms and Photographs

1.0 INTRODUCTION

The following report summarizes the wetland findings on the approximate 28.5-acre study area of the proposed Dijon Drive Extension project. The purpose of this report is to identify areas that contain potential wetlands and other potential “waters of the United States” as defined in 33 C.F.R. § 328.3. The study area is located in Baton Rouge, Louisiana between Essen Lane and Bluebonnet Boulevard south of Interstate 10 (Figure 1). The study area includes properties that were previously delineated and permitted and a property that was not previously delineated.

Properties owned by Baton Rouge General Hospital (eastern portion of the study area) and Our Lady of the Lake Hospital (western portion of the study area) include wetlands that have been mitigated under current existing permits. The previously non-delineated portion of the study area is associated with the proposed Midway Drive alignment which connects Picardy Avenue to the proposed Dijon Extension. This report confirms the findings of all previous investigations and presents the findings of the delineation of the Midway Drive portion of the study area.

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

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

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

Three mandatory technical criteria for determining the presence of a wetland are, with exceptions, 1) prevalence of hydrophytic vegetation, 2) wetland hydrology, and 3) hydric soils (USACE 1987). Hydrophytic vegetation is defined as “the sum total of macrophytic plant life

growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content” (USACE 1987). The term wetland hydrology encompasses “the sum total of wetness characteristics in areas that are inundated or have saturated soils for a sufficient duration to support hydrophytic vegetation” (USACE 1987). A hydric soil is defined as “a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part” (USDA 2010).

2.0 PHYSIOGRAPHY, CLIMATE, AND SITE DESCRIPTION

East Baton Rouge Parish is located in south-central Louisiana, and consists mainly of natural levees and back swamps of the Mississippi River and upland bluffs. Elevations in the parish range from 20 feet above sea-level in the southeast corner of the parish to approximately 80 feet along the bluffs near the northern boundary of the parish. The general drainage pattern of the parish is southeast toward the Amite River. Soils in the parish formed through loess deposition in the upland bluffs and alluvial flooding in the remainder of the parish. East Baton Rouge Parish has a mild and wet climate characterized by excessive precipitation in winter and early spring and drier weather in summer months (Soil Conservation Service [SCS] 1968).

Habitats in the study area include inactive pasture, unmaintained field, and forests with intersecting ephemeral waterbodies. Wetland habitats observed in the study area included shrub/scrub, bottomland hardwood forest, and herbaceous wetlands. Upland/non-wetland habitats occurred in bottomland hardwood forests, maintained herbaceous habitats, and on elevated berms.

3.0 METHODS

CK visited the non-delineated portion of the study area associated with the Midway Drive alignment on November 13, 2015 to determine the extent of potential wetlands and waters of the US (WOUS). The wetland delineation followed routine onsite field procedures as outlined by the USACE (1987 and 2010). Soil references include the NRCS (2015, 2016, 2016a), and USDA (2010). Plant nomenclature and wetland indicator status is taken from The National Wetland Plant List (USACE 2016). Plant nomenclature not listed in The National Wetland Plant List is taken from NRCS PLANTS Database (USDA 2016).

Prior to conducting the field investigation, CK reviewed available aerial photography, soil survey data, elevation data [Light Detection and Ranging (LiDAR) data and Digital Elevation Models (DEM)], topographic maps, and US Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) data. Data points were established within the dominant plant communities of the study area. Observations of soils, vegetation, and hydrology were documented at each data point location (Attachment A). Potential wetlands and waters of the US, and data point locations were mapped utilizing Trimble® GeoXT® Differential Global Positioning System (DGPS) with real-time corrections. Acreage was obtained by exporting the data from the DGPS unit into ESRI® ArcMap Version 10.4. Digital photographs were taken of the soil profile and surrounding vegetation at each data point (Attachment A).

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

All vegetative species present within each data point were documented for the tree stratum, sapling/shrub stratum, herbaceous stratum, and woody vines stratum where present. Percent absolute cover for each species was determined by ocular estimation. Plant communities met hydrophytic vegetation criteria if all dominant species across all strata are classified as obligatory and/or facultative-wet, or if greater than 50% of all dominant species from all strata were classified as obligatory, facultative-wet, and/or facultative species, or if the prevalence index is 3.0 or less (USACE 2010). Dominant species were selected using the "50/20 rule" described by the USACE (2010).

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

4.0 RESULTS

No data points were established in areas where an approved Jurisdictional Determination (JD) from the USACE exists. Data Point 2, Data Point 3, and Data Point 5 were taken within the Midway Drive portion of the study area (Figure 2). Data Point 5 is representative of Wetland Area 1. Data point 2 is representative of Wetland Area 3. Data Point 3 is representative of the upland area within the Midway Drive alignment portion of the study area. All wetland areas are described here.

Wetland Area 1: This area is located in the eastern most portion of the study area south of Ward's Creek at latitude 30°23'52.484"N and longitude 91°5'31.204"W (Figure 2). The dominant vegetation consists of water oak (*Quercus nigra*, T, FAC), Chinese privet (*Ligustrum sinense*, S/S, FAC), Chinese tallowtree (*Triadica sebifera*, S/S, FAC), maiden-cane (*Panicum hemitomon*, H, OBL), angle-stem primrose-willow (*Ludwigia leptocarpa*, H, OBL) slender wood-oats (*Chasmanthium laxum*, H, FACW). One hundred percent (100%) of the dominant species are hydrophytic. The wetland hydrology indicators present include surface water (1- to 2-inches), high water table (0-inches), saturation (0-inches), water marks (4- to 6-inches), water-stained leaves, moss trim lines (4- to 6-inches), geomorphic position, and the FAC-Neutral Test (3:0). The soil profile in this area exhibits the depleted matrix indicator, a characteristic indicative of hydric soil per the (USACE 2010). This area meets all three wetland criteria indicating the presence of wetlands totaling 7.84 acres.

Wetland Area 2: Wetland Area 2 is located in the central portion of the study area south of Ward's Creek at latitude 30°24'2.699"N and longitude 91°5'42.049"W (Figure 2). The dominant vegetation consists of Coco-yam (*Colocasia esculenta*, H, FACW), duck-potato (*Sagittaria latifolia*, H, OBL), and southern cat-tail (*Typha domingensis*,

H, OBL). One hundred percent (100%) of the dominant species are hydrophytic. The wetland hydrology indicators present include drift deposits, crayfish burrows, and the FAC-Neutral Test (3:0). No soil profile was taken due to inundation and hydric soil indicators were therefore assumed present; however, the soil underlying this area is CmA: Cancienne silt loam, 0-1% slopes, which is a listed on the 2015 NRCS Hydric Soil List (NRCS 2015). This area meets all three wetland criteria indicating the presence of wetlands totaling 0.02 acres.

Wetland Area 3: Wetland Area 3 is located south of Wetland Area 1 in non-maintained field at latitude 30°23'49.834"N and longitude 91°5'44.885"W. The dominant vegetation consists of Vasey's grass (*Paspalum urvillei*, H, FAC), rusty flat sedge (*Cyperus odoratus*, H, FACW), and short-bristle horned beak sedge (*Rhynchospora corniculata*, H, OBL). The wetland hydrology indicators present include surface water (0- to 3-inches in areas throughout the plot), water table (3-inches), saturation (0-inches), oxidized rhizospheres on living roots, and FAC-Neutral test (1:0). The soil profile in this area exhibits the depleted matrix indicator, a characteristic indicative of hydric soil (USACE 2010). This area meets all three wetland criteria indicating the presence of wetlands totaling 0.04 acres.

Wetland Area 4: Wetland Area 4 is located at latitude 30°23'56.52"N and longitude 91°5'43.466"W. The dominant vegetation consists of woodrush flat sedge (*Cyperus entrerianus*, H, FACW) and dotted smartweed (*Persicaria punctata*, H, OBL). The soil profile in this area exhibits the depleted matrix indicator, a characteristic indicative of hydric soil (USACE 2010). This area meets all three wetland criteria indicating the presence of wetlands totaling 0.03 acres.

Wetland Area 5: Wetland Area 5 is located at latitude 30°24'9.011"N and longitude 91°5'58.05"W. The dominant vegetation consists of Chinese tallowtree (T, S/S, FAC) and black willow (*Salix nigra*, T, S/S, OBL). The wetland hydrology indicators present include standing water (1- to 12-inches) and water marks (1- to 4-inches). The soils underlying this area are classified as OpB: Oprairie silt, 1-3% slopes and CmA: Cancienne silt loam, 0-1% slopes, both of which are listed on the 2015 NRCS hydric soils list. The area satisfies all three wetland criteria indicating the presence of wetlands totaling 0.15 acres.

Wetland Areas 6 and 7: Wetland Area 6 is located at latitude 30°24'10.338"N and longitude 91°6'3.892"W. Wetland Area 7 is located at latitude 30°24'14.199"N and longitude 91°6'9.846"W. The dominant vegetation consists of sugar-berry (*Celtis laevigata*, T, FACW), water oak (T, FAC), black willow (SS, OBL), Chinese tallowtree (S/S, FAC), southern waxy sedge (*Carex glaucescens*, H, OBL), Japanese honeysuckle (*Lonicera japonica*, V, FAC), and American buckwheatvine (*Brunnichia ovata*, V, FACW). Wetland hydrology indicators include surface water (4-inches), saturation (0-inches), oxidized rhizospheres on living roots, and FAC-Neutral test (4:0). The soil profiles of these areas exhibit the depleted matrix indicator, a characteristic indicative of hydric soil (USACE 2010). These areas meet all three wetland criteria indicating the presence of wetlands totaling 0.64 acres.

Waters of the US: The study area contains 0.63 acres of waters of the U.S (Figure 2). WOUS 1 is an ephemeral channel totaling 0.03 acres that begins at latitude 30°23'48.77"N and longitude 91°5'44.2"W, and drains runoff from an upland field, roadway, and maintained right-of-way (ROW) into Wetland Area 1. WOUS 2 is an ephemeral channel totaling 0.2 acres that begins at latitude 30°24'0.71"N and longitude 91°5'59.87"W, and connects a retention pond located outside of the study area to the south to Ward Creek. WOUS 3 is the area below the ordinary high water mark of Ward Creek and totals 0.4 acres. WOUS 3 meanders parallel to the study area intersecting it at latitude 30°24'8.73"N and longitude 91° 5'58.27"W, latitude 30°24'7.44"N and longitude 91° 5'51.94"W, and latitude 30°24'2.25"N and longitude 91° 5'43.76"W.

5.0 CONCLUSIONS

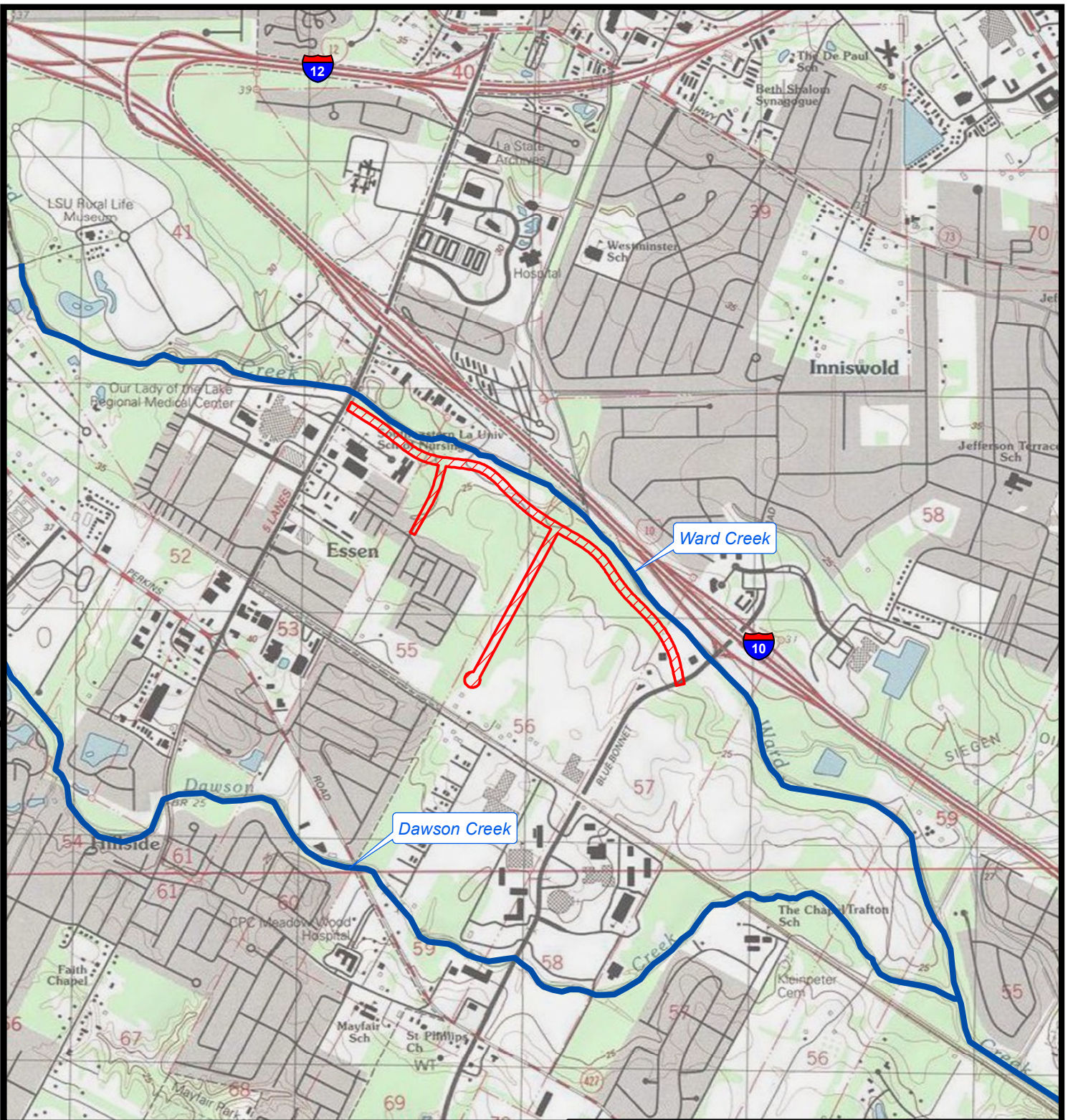
Based on field observations, the 28.5-acre study area contains 0.63 acres of waters of the US and 8.72 acres of wetlands (Figure 2). Total wetland acreage includes 7.27 acres of wetlands that were previously permitted and mitigated (MVN-2014-02787-SE and MVN-2015-02136-CD). The Midway Drive alignment portion of the study area contains 1.45 acres of wetlands and 0.03 acres of waters of the U.S., which have not yet been submitted to the USACE for review and issuance of a JD. This acreage is influenced by the accuracy of the DGPS unit utilizing real-time corrections and ESRI® ArcMap Version 10.4 drafting software.

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


6.0 LITERATURE CITED

- NRCS. 2015. National Hydric Soils List. US Department of Agriculture, Natural Resources Conservation Service, Soil Survey Staff. <<http://websoilsurvey.nrcs.usda.gov/app/>>. Accessed 20 July 2016.
- NRCS. 2016. Official Soil Series Descriptions. US Department of Agriculture, Natural Resource Conservation Service. <http://soils.usda.gov/technical/classification/osd/index.html>. Accessed 20 July 2016.
- NRCS. 2016a. Web Soil Survey. US Department of Agriculture, Natural Resources Conservation Service, Soil Survey Staff. <<http://websoilsurvey.nrcs.usda.gov/app/>>. Accessed 20 November 2016.
- Soil Conservation Service [SCS]. 1968. Soil Survey of East Baton Rouge Parish. U.S. Department of Agriculture, Soil Conservation Service.
- U.S. Army Corps of Engineers [USACE] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. Vicksburg, MS: US Army Engineer Waterways Experiment Station.
- USACE. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-20. Vicksburg, MS: US Army Engineer Research and Development Center.
- USACE 2016. National Wetland Plant List, version 3.3. http://wetland_plants.usace.army.mil/. U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH.
- USDA. NRCS. 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. ed. L.M. Vasilas, G.W. Hart, and C.V. Noble. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.
- USDA. NRCS. 2016. The PLANTS Database (<http://plants.usda.gov>, 20 July 2016). National Plant Data Team, Greensboro, NC 27401-4901 USA.

FIGURES



East Baton Rouge Parish

 Study Area



Capital Area Planning Commission

Baton Rouge, Louisiana

Dijon Drive Extension

Project Location Map

East Baton Rouge Parish

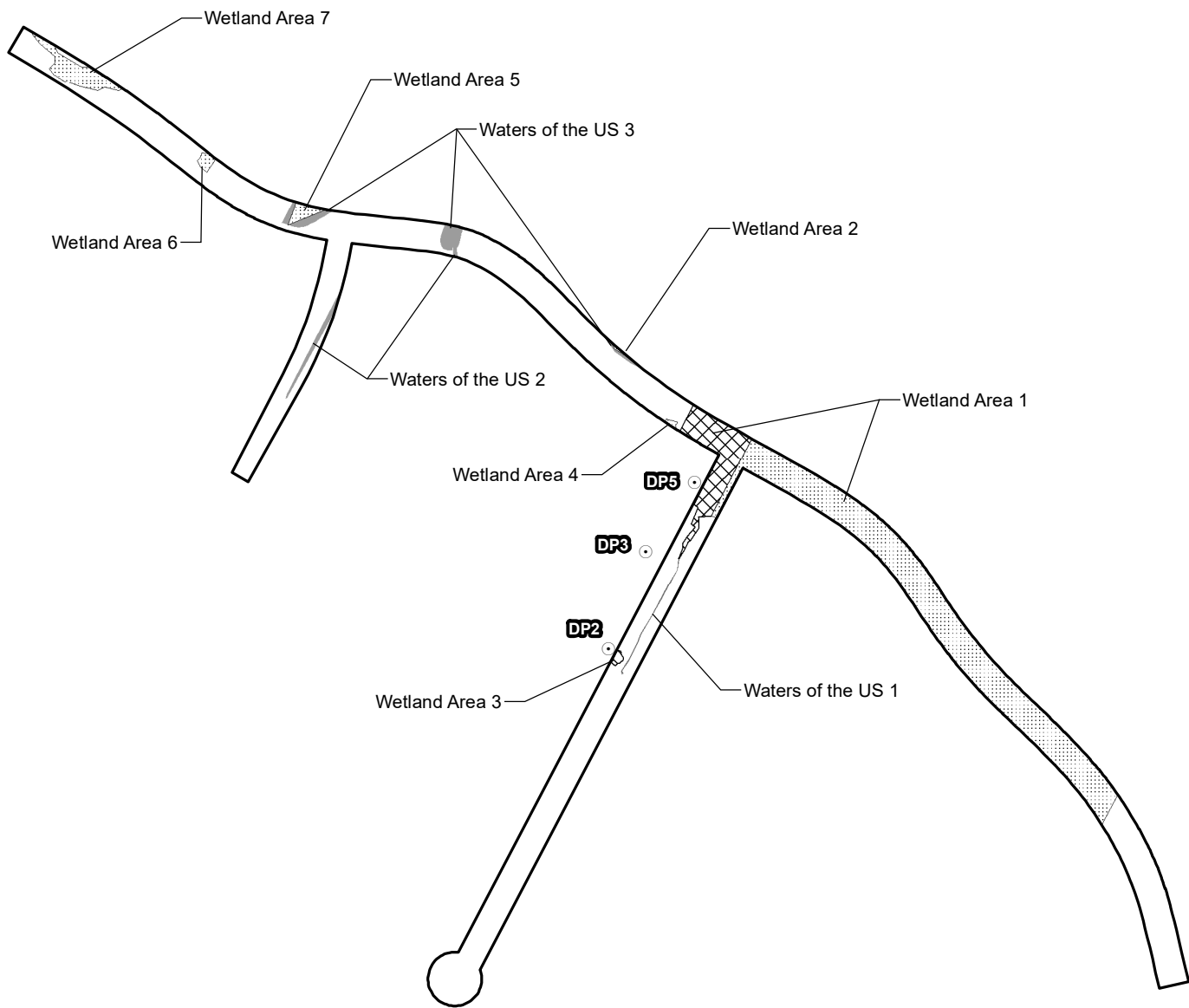
Drawn:	CP/AM10.4
Checked:	CL
Approved:	TW
Date:	07/20/2016
Dwg. No.:	A12960-01



FIGURE 1

Reference

U.S.G.S. 24K Series Quad Map, Baton Rouge East, LA.



- Data Point
- Study Area (28.5 acres)
- ▨ Wetlands - Permitted and Mitigated (7.27 acres)
- ▩ Wetlands - No JD (1.45 acres)
- Waters of the US - JD Issued (0.6 acres)
- Waters of the US - No JD (0.03 acres)



Capital Area Planning Commission

Baton Rouge, Louisiana

Dijon Drive Extension

Wetlands Map

East Baton Rouge Parish



Drawn:	CAL/AM10.4
Checked:	CP
Approved:	TW
Date:	07/19/2016
Dwg. No.:	A12960-06

Figure 2

ATTACHMENT A

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Dijon Drive Extension City/County: Baton Rouge/East Baton Rouge Sampling Date: 11/13/15
 Applicant/Owner: Capital Area Planning Commission State: Louisiana Sampling Point: DP2
 Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 56, Township 7S, Range 1E
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LRR P Lat: 30°23'49.861"N Long: 90°5'44.843"W Datum: NAD83
 Soil Map Unit Name OpA: Oprarie silt loam, 0 to 1% slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal circumstances" present? **Yes**
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? (If needed, explain any answers in remarks.)

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

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

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

Wetland Hydrology Present? Yes

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

Remarks:
 FAC-Neutral Test: 2:0

VEGETATION -- Use scientific names of plants.

Sampling Point: DP2

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				
6				
7				
8				

Dominance Test Worksheet

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

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

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

0 = Total Cover

50% of total cover: 0 20% of total cover: 0

Sapling/Shrub Stratum (Plot size: 30 feet)

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				
6				
7				
8				

Prevalence Index Worksheet

Total % Cover of:

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 0 x 4 = 0

UPL species 0 x 5 = 0

Column totals (A) 0 (B)

Prevalence Index = B/A = 0

0 = Total Cover

50% of total cover: 0 20% of total cover: 0

Herb stratum (Plot size: 30 feet)

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Paspalum urvillei</i>	20	Y	FAC
2	<i>Cyperus odoratus</i>	15	Y	FACW
3	<i>Rhynchospora corniculata</i>	15	Y	OBL
4	<i>Campsis radicans</i>	10	N	FAC
5	<i>Juncus effusus</i>	5	N	OBL
6	<i>Cephalanthus occidentalis</i>	5	N	OBL
7				
8				
9				
10				
11				
12				

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0*

Problematic hydrophytic vegetation* (explain)

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

70 = Total Cover

50% of total cover: 35 20% of total cover: 14

Woody vine stratum (Plot size: 30 feet)

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				

0 = Total Cover

50% of total cover: 0 20% of total cover: 0

Definitions of Four Vegetation Strata

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

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall

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

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes**

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

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-1	10YR 5/1	100					silty clay	
1-16	10YR 5/1	70	10YR 5/8	20	C	M	silty clay	
			10YR 5/8	10	C	PL	silty clay	

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

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histisol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</p> <p><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</p> <p><input type="checkbox"/> Muck Presence (A8) (LRR U)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR U)</p> <p><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</p> <p><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</p> <p><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</p> <p><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</p> <p><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</p>	<p><input type="checkbox"/> 1 cm Muck (A9) (LRR O)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR S)</p> <p><input type="checkbox"/> Reduced Vertic(F18) (outside MLRA 150A,B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)</p> <p><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (explain in remarks)</p> <p style="font-size: small; margin-top: 10px;">*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</p>
--	---	--

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes</p>
--	---

Remarks:



Vegetation at DP2 facing north taken 11/13/15



Vegetation at DP2 facing east taken 11/13/15



Vegetation at DP2 facing south taken 11/13/15



Vegetation at DP2 facing west taken 11/13/15



Soil profile at DP2 taken 11/13/15

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Dijon Drive Extension City/County: Baton Rouge/East Baton Rouge Sampling Date: 11/13/15
 Applicant/Owner: Capital Area Planning Commission State: Louisiana Sampling Point: DP3
 Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 56, Township 7S, Range 1E
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LRR P Lat: 30°23'53.765"N Long: 90°5'42.925"W Datum: NAD83
 Soil Map Unit Name OpA: Oprairie silt loam, 0 to 1% slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal circumstances" present? **Yes**
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? (If needed, explain any answers in remarks.)

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

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

Remarks:

HYDROLOGY

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

Field Observations:		Wetland Hydrology Present? No
Surface water present?	Yes _____ No <u>X</u> Depth (inches): _____	
Water table present?	Yes _____ No <u>X</u> Depth (inches): _____	
Saturation present? (includes capillary fringe)	Yes _____ No <u>X</u> Depth (inches): _____	

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

Remarks:

VEGETATION -- Use scientific names of plants.

Sampling Point: DP3

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

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 33.33% (A/B)

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

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	55	x 3 =	165
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column totals	160 (A)		555 (B)

Prevalence Index = B/A = 3.47

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Paspalum dilatatum</i>	35	Y	FAC
2	<i>Paspalum notatum</i>	30	Y	FACU
3	<i>Urochloa ramosa</i>	25	Y	FACU
4	<i>Schizachyrium scoparium</i>	20	N	FACU
5	<i>Solidago rugosa</i>	15	N	FAC
6	<i>Ageratina altissima</i>	15	N	FACU
7	<i>Panicum dichotomiflorum</i>	15	N	FACW
8	<i>Lonicera japonica</i>	5	N	FAC
9				
10				
11				
12				
		160 = Total Cover		
50% of total cover: 80		20% of total cover: 32		

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0*

Problematic hydrophytic vegetation* (explain)

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

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

Definitions of Four Vegetation Strata

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

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall

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

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? **No**

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

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-4	7.5YR 4/2	100					clay loam	
4-16	7.5YR 4/6	55	10YR 5/3	25	D	M	clay loam	
			10YR 5/6	20	C	M	clay loam	

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

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histisol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</p> <p><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</p> <p><input type="checkbox"/> Muck Presence (A8) (LRR U)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR U)</p> <p><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</p> <p><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</p> <p><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</p> <p><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</p> <p><input type="checkbox"/> Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</p>	<p><input type="checkbox"/> 1 cm Muck (A9) (LRR O)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR S)</p> <p><input type="checkbox"/> Reduced Vertic(F18) (outside MLRA 150A,B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)</p> <p><input type="checkbox"/> Anomolous Bright Loamy Soils (F20) (MLRA 153B)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (explain in remarks)</p> <p style="font-size: small; margin-top: 10px;">*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</p>
--	--	--

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p style="padding-left: 40px;">Depth (inches): _____</p>	<p>Hydric Soil Present? No</p>
--	--

Remarks:



Vegetation at DP3 facing north taken 11/13/15



Vegetation at DP3 facing east taken 11/13/15



Vegetation at DP3 facing south taken 11/13/15



Vegetation at DP3 facing west taken 11/13/15



Soil profile at DP3 taken 11/13/15

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Dijon Drive Extension City/County: Baton Rouge/East Baton Rouge Sampling Date: 11/13/15
 Applicant/Owner: Capital Area Planning Commission State: Louisiana Sampling Point: DP5
 Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 56, Township 7S, Range 1E
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): none Slope (%): 0-1
 Subregion (LRR or MLRA): LRR P Lat: 30°23'56.753"N Long: 90°5'40.563"W Datum: NAD83
 Soil Map Unit Name CmA: Cancienne silt loam, 0 to 1% slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal circumstances" present? **Yes**
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? (If needed, explain any answers in remarks.)

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

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

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that ap		Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (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 checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)

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

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

Remarks:
 Water marks at 4"-6"
 Moss trim lines at 4"-6"
 FAC-Neutral Test: 3:0

VEGETATION -- Use scientific names of plants.

Sampling Point: DP5

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)		Absolute % Cover	Dominant Species	Indicator Staus
1	<u>Quercus nigra</u>	40	Y	FAC
2	<u>Triadica sebifera</u>	15	N	FAC
3	<u>Liquidambar styraciflua</u>	15	N	FAC
4	<u>Quercus michauxii</u>	10	N	FACW
5				
6				
7				
8				
		80	= Total Cover	
50% of total cover: <u>40</u>		20% of total cover: <u>16</u>		

Dominance Test Worksheet

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

Total Number of Dominant Species Across all Strata: 6 (B)

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

<u>Sapling/Shrub Stratum</u> (Plot size: <u>30 feet</u>)		Absolute % Cover	Dominant Species	Indicator Staus
1	<u>Ligustrum sinense</u>	15	Y	FAC
2	<u>Triadica sebifera</u>	15	Y	FAC
3	<u>Quercus nigra</u>	5	N	FAC
4				
5				
6				
7				
8				
		35	= Total Cover	
50% of total cover: <u>17.5</u>		20% of total cover: <u>7</u>		

Prevalence Index Worksheet

Total % Cover of:

OBL species x 1 = 0

FACW species x 2 = 0

FAC species x 3 = 0

FACU species x 4 = 0

UPL species x 5 = 0

Column totals (A) 0 (B)

Prevalence Index = B/A =

<u>Herb stratum</u> (Plot size: <u>30 feet</u>)		Absolute % Cover	Dominant Species	Indicator Staus
1	<u>Panicum hemitomon</u>	15	Y	OBL
2	<u>Ludwigia leptocarpa</u>	5	Y	OBL
3	<u>Chasmanthium laxum</u>	5	Y	FACW
4	<u>Sabal minor</u>	2	N	FACW
5	<u>Diospyros virginiana</u>	2	N	FAC
6	<u>Ampelopsis arborea</u>	2	N	FAC
7				
8				
9				
10				
11				
12				
		31	= Total Cover	
50% of total cover: <u>15.5</u>		20% of total cover: <u>6.2</u>		

Hydrophytic Vegetation Indicators:

 Rapid test for hydrophytic vegetation

Dominance test is >50%

 Prevalence index is ≤3.0*

 Problematic hydrophytic vegetation* (explain)

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

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

Definitions of Four Vegetation Strata

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

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall

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

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes

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

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-1	2.5Y 3/1	100					clay loam	
1-16	2.5Y 5/1	85	10YR 3/6	15	C	M	clay loam	

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

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histisol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</p> <p><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</p> <p><input type="checkbox"/> Muck Presence (A8) (LRR U)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</p>	<p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR U)</p> <p><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</p> <p><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</p> <p><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</p> <p><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</p> <p><input type="checkbox"/> Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR O)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR S)</p> <p><input type="checkbox"/> Reduced Vertic(F18) (outside MLRA 150A,B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)</p> <p><input type="checkbox"/> Anomolous Bright Loamy Soils (F20) (MLRA 153B)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (explain in remarks)</p> <p style="font-size: small; margin-top: 10px;">*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</p>
--	--	---

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p style="padding-left: 40px;">Depth (inches): _____</p>	<p>Hydric Soil Present? Yes</p>
--	---

Remarks:



Vegetation at DP5 facing north taken 11/13/15



Vegetation at DP5 facing east taken 11/13/15



Vegetation at DP5 facing south taken 11/13/15



Vegetation at DP5 facing west taken 11/13/15



Soil profile at DP5 taken 11/13/15