





Woodley Site Wetlands Delineation Report

Wetland Data Report Woodley Plantation Site

Pointe Coupee Parish, Louisiana

Baton Rouge Area Chamber

564 Laurel Street

Baton Rouge, Louisiana 70801

February 2016

Prepared by:



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CK Project Number: 13343

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1.0 INTRODUCTION

The following report summarizes a wetland delineation conducted by CK Associates (CK) on a 355 acre property (project area) near Valverda, Louisiana. The purpose of this report is to identify areas that contain potential wetlands and other potential "Waters of the United States" (US) as defined in 33 C.F.R. § 328.3. The project area is located on Highway 77 in Pointe Coupee Parish, specifically at latitude 30°32'33.71"N and longitude 91°33'35.31"W within Sections 78, 79, 80, 81, 82, and 121 of Township 6 South and Range 9 East.

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

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

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

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

2.0 PHYSIOGRAPHY, CLIMATE, AND SITE DESCRIPTION

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

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

Active agriculture comprises a majority of the project area, with wetland and non-wet inactive agriculture habitat. There are existing homesteads on the eastern part of the project area.

3.0 METHODS

CK visited the project area January 27, 2016 to determine the extent of potential wetlands and other waters of the US. The wetland delineation followed routine onsite field procedures as outlined by the USACE (1987 and 2010). Soil references include the NRCS (2015, 2016a, and 2016c) and USDA (2010). Plant nomenclature and wetland indicator status is taken from The National Wetland Plant List (Lichvar et al. 2014). Plant nomenclature not listed in The National Wetland Plant List is taken from the NRCS PLANTS Database (2016b).

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

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

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

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

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

4.0 RESULTS

Five data points (DP) were collected during the field investigation. DP1, DP2, and DP3 were located within wetlands. DP4 was located within non-wetlands.

4.1 Hydrology

Primary wetland hydrology indicators (surface water, saturation, sediment deposits, drift deposits, algal mat or crust, water-stained leaves, and/or oxidized rhizospheres on living roots) and/or secondary hydrology indicators (drainage patterns, crawfish burrows, saturation visible on aerial imagery, and/or FAC-Neutral test) were observed at DP1, DP2, DP3. No primary or secondary wetland hydrology indicators were observed at DP4.

4.2 Vegetation

The wet, inactive agriculture habitat is dominated by peatree (Sesbania herbacea) and rice button American-aster (Symphyotrichum dumosum) in the sapling-shrub stratum. The herbaceous stratum is dominated by virginia buttonweed (Diodia virginiana), variable flat sedge (Cyperus difformis), curly dock (Rumex crispus), ricefield flatsedge (Cyperus iria), and green flat sedge (Cyperus virens).

The non-wet, inactive agriculture habitat is dominated by great ragweed (*Ambrosia trifida*) in the sapling shrub stratum. Southern dewberry (*Rubus trivialis*) and Carolina horse-nettle (*Solanum carolinense*) dominate the herbaceous stratum.

The active agricultural fields are dominated by annual blue grass (*Poa annua*).

4.3 Soils

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

- a. Ce: Commerce silt loam, 0 to 1 percent slopes
- b. Cm: Commerce silty clay loam

- c. Ct: Convent silt loam, 0 to 1 percent slopes
- d. Se: Sharkey silty clay loam
- e. Sf: Sharkey clay, 0 to 1 percent slopes, rarely flooded, south

All of the above soils are designated as hydric according to the National Hydric Soils List (NRCS 2015). The depleted matrix hydric soil indicator was observed at DP1, DP2, DP3, and DP4.

4.4 Questions Pertaining to Regulatory Authority

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

- 1. Identify any bodies of water on or abutting the site and identify the authority with jurisdiction over them.
 - The Port Allen Lock (Bayou Black) is located adjacent to the eastern property boundary. This feature is under the jurisdiction of the USACE by authority of Section 10 of the Rivers and Harbors Act.
- 2. Do wetlands and/or other waterways exist on or near the site?
 - There are 15.2 acres of Section 404 Wetlands present on the site. These features are under the jurisdiction of the USACE under the authority of Section 404 of the Clean Water Act.
 - There are 5.2 acres of Section 404 Other Waters of the US present on the site. These features are under the jurisdiction of the USACE by authority of Section 404 of the Clean Water Act.
- 3. If wetlands are present has a Section 404 permit application been submitted to USACE? If yes, provide a copy.
 - No previous permit applications were associated with the project area per the USACE New Orleans District.
- 4. If wetlands are present, has the Section 404 permit been received from the USACE?
 - See above.
- 5. If wetlands are present, have all wetlands on site been mitigated?
 - To the best of CK's knowledge, no mitigation has been conducted for wetlands on site.

5.0 CONCLUSIONS

Based on the aforementioned data and field observations, the 355 acre project area contains (Figure 2 and Figure 3):

- 5.2 acres of Section 404 Other Waters of the US
- 15.2 acres of Section 404 Wetlands

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

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

6.0 LITERATURE CITED

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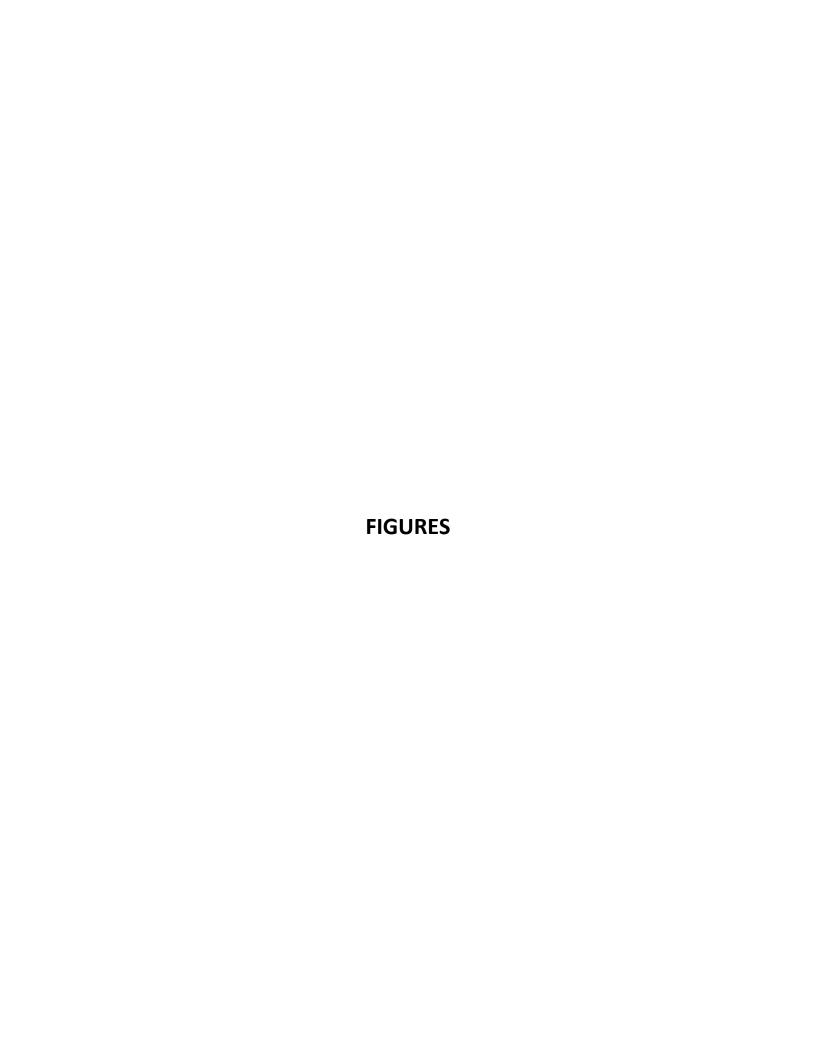
 Department of Agriculture, Natural Resources Conservation Service, Soil Survey
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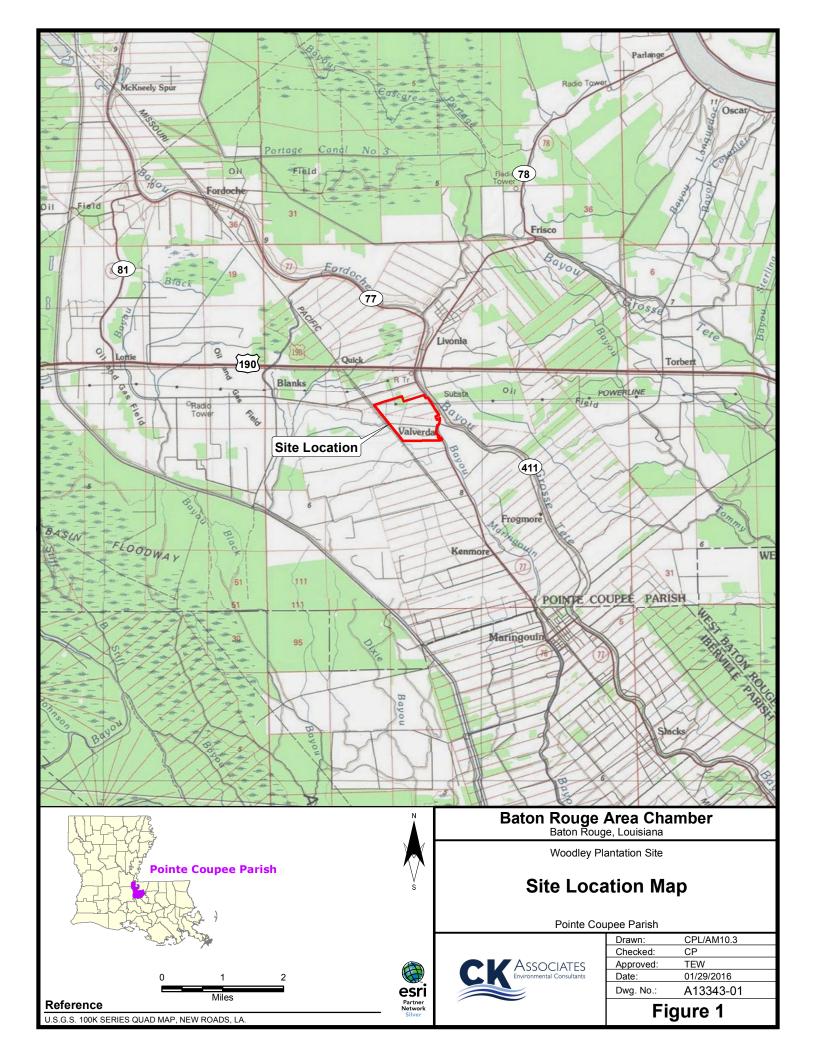
 Descriptions. US Department of Agriculture, Natural Resource Conservation Service.

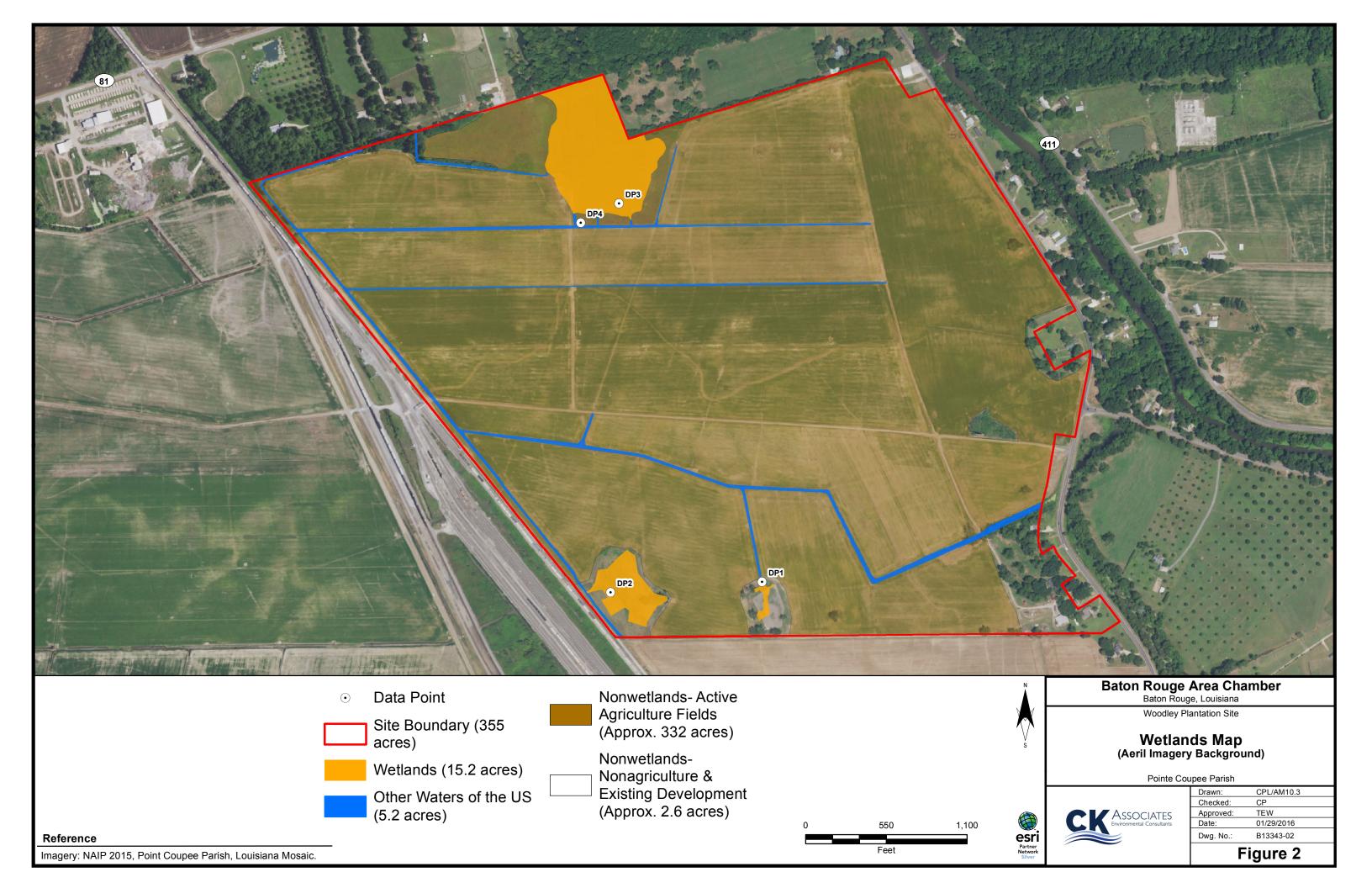
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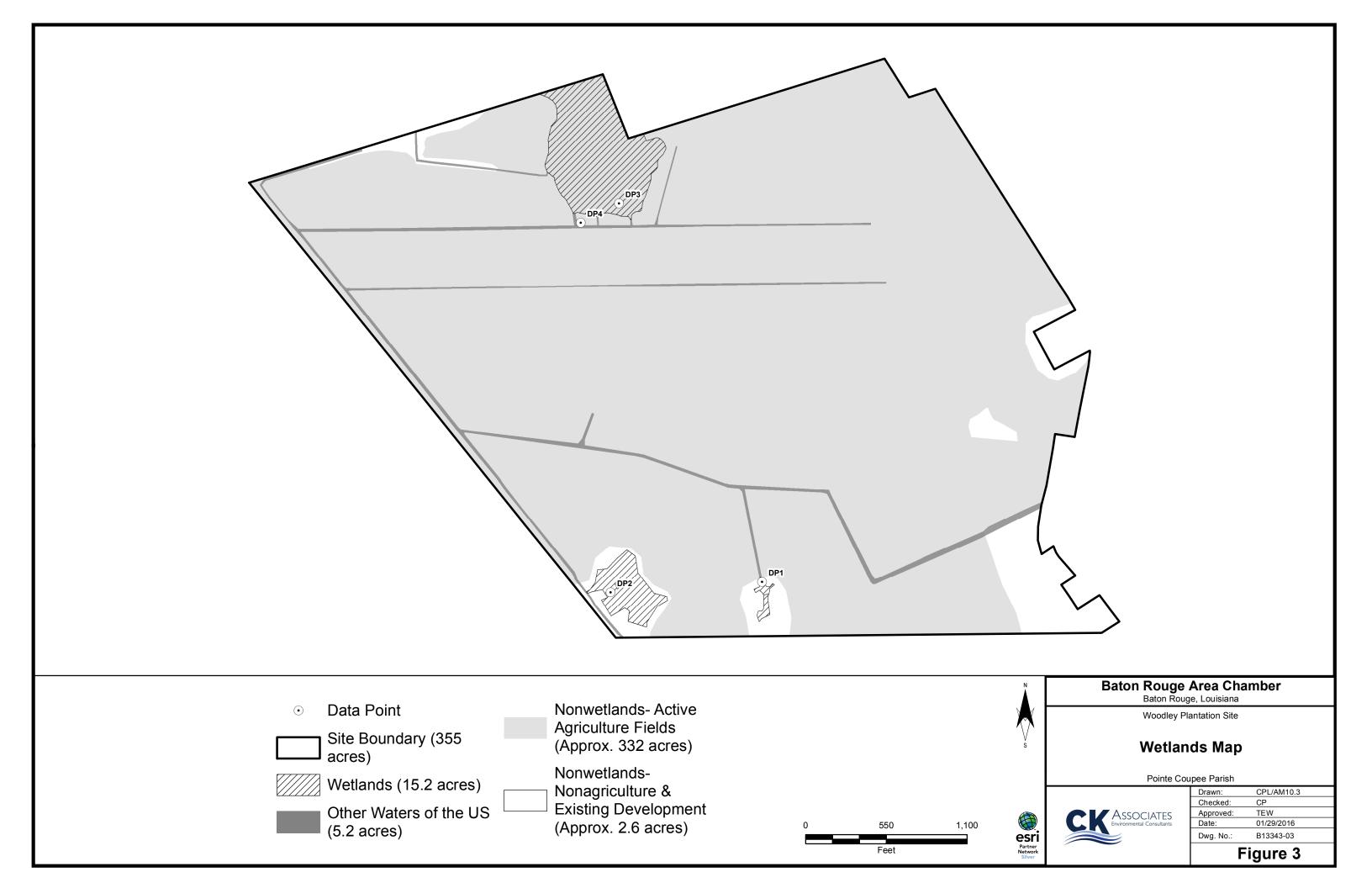
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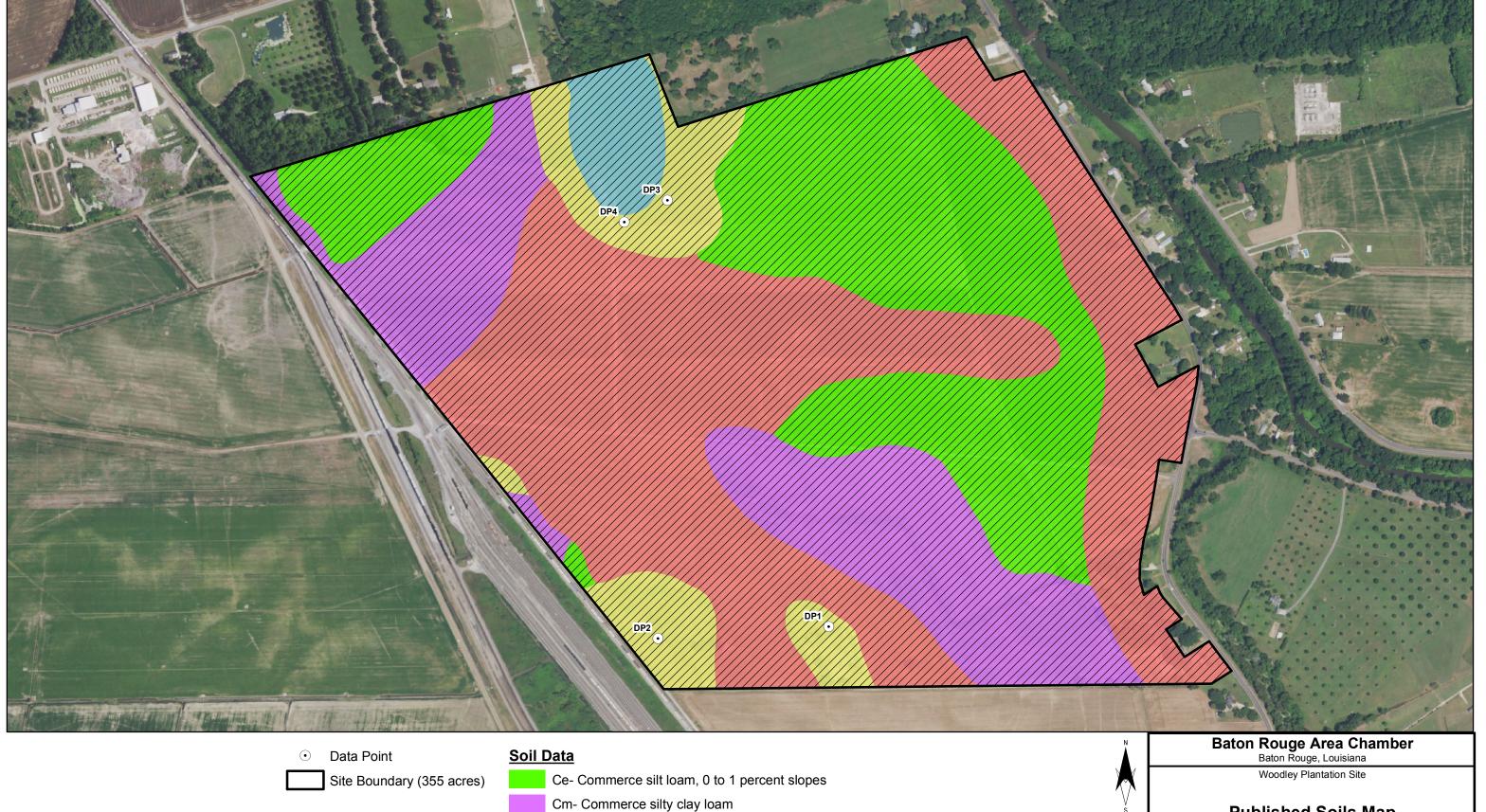
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Reference

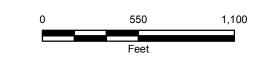
1) IMAGERY: NAIP 2015, POINT COUPEE PARISH, LOUISIANA MOSAIC.
2) SOIL DATA FROM THE USDA NRCS SOIL SURVEY GEOGRAPHIC(SSURGO)
DATABASE FOR POINT COUPEE PARISH.
3) HYDRIC SOIL DATA FROM THE USDA NRCS 2015 NATIONAL HYDRIC SOILS LIST.

Ct- Convent silt loam, 0 to 1 percent slopes

Se- Sharkey silty clay loam

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

Soils Designated as Hydric



Published Soils Map

Pointe Coupee Parish



esri Partner Network

Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/29/2016
Dwg. No.:	B13343-04
	Checked: Approved: Date:

Figure 4



Project/Site	Woodley Plantation	Cit	y/County: Val	verda/Pointe	e Coupee	Sampling Date:	1/27/20	016		
Applicant/Owner:	BRAC - Baton Rou	ige Area Chambei	r State:	Louisi	ana	Sampling Point:	DP1	1		
Investigator(s):	Christina Perez, Ka	ale Wetekamm	Section	ı, Township	, Range:	Section , Town	nship 6 S, Ran	ıge 9 E		
Landform (hillslope, te	errace, etc.):		Local relief (c	concave, co	onvex, non	e): concave	Slope (%):	0		
Subregion (LRR or MI	LRA): LRR O	Lat: 30°3	32'17.98"N	Long:	. 9	1°33'33.35"W	Datum:	NAD83		
Soil Map Unit Name_	Se: Sh	harkey silty clay lo	am	N	WI Classifi	ication:	none			
Are climatic/hydrologic	c conditions of the site t	ypical for this time	e of the year?	Yes	(If no, exp	plain in remarks)				
Are vegetation	, soil, or	r hydrology	significantly o	listurbed?	Are "nor	rmal circumstance	es" present?	Yes		
Are vegetation	, soil, or	r hydrology	naturally prob	olematic?	(If need	led, explain any a	nswers in rem	arks.)		
SUMMARY OF FIR	NDINGS Attach	site map showir	ng sampling	point loca	ations, tra	ansects, import	ant features,	, etc.		
Hydrophytic veget	ation present?	Yes								
Hydric soil presen	it?	Yes	ls the	Sampled	Area with	nin a Wetland?	Yes			
Indicators of wetla	and hydrology present?	Yes								
Remarks:										
Remarks.										
HYDROLOGY										
Wetland Hydrology I	ndicators:	-								
Primary Indicators (mi	inimum of one is require	ed; check all that a	<u>ap</u>	<u>s</u>	Secondary	Indicators (minimi	um of two requ	uired)		
X Surface Water (A1))	Aquatic Faun	ıa (B13)		Surf	face Soil Cracks (E	36)	_		
High Water Table ((A2)	Marl Deposits	s (B15) (LRR U	J)	—— Spa	arsely Vegetated C	oncave Surfac	e (B8)		
X Saturation (A3)	,	Hydrogen Su	ılfide Odor (C1))	X Drai	inage Patterns (B1	10)			
Water Marks (B1)			zospheres on L		Dry-Season Water Table (C2)					
X Sediment Deposits	; (B2)	Roots (C3)	20spileres on E	-IVIII'G		ss Trim Lines (B16				
Drift Deposits (B3)		Presence of I	Reduced Iron (C4)	X Cra	yfish Burrows (C8))			
Algal Mat or Crust			Recent Iron Reduction in Tilled Soils (C6)			Saturation Visible on Aerial Imagery (C9)				
Iron Deposits (B5)	. ,					Geomorphic Position (D2)				
Inundation Visible	on Aerial Imagery (B7)	Thin Muck Su	urface (C7)			allow Aquitard (D3)				
Water-Stained Lea		Other (Explai	in in Remarks)		X FAC-Neutral Test (D5)					
	• •				Sph	nagnum moss (D8)	(LRR T, U)			
Field Observations:										
Surface water present	t? Yes X	NoDepth	(inches):	0-6		Wetlend				
Water table present?	Yes	No X Depth	(inches):			Wetland Hydrology	Yes			
Saturation present?	Yes X	No Depth	(inches):	0		Present?				
(includes capillary fring	ge)									
Describe recorded da	ta (stream gauge, monit	toring well, aerial	photos, previo	ous inspecti	ions), if ava	ailable:				
Remarks:										
FAC-Neutral Test	: 2:0									

/EGETATION Use scientific names of pla	nts.			Sampling Point: DP1	1
	Absolute	Dominant	Indicator	Dominance Test Worksheet	
<u>Tree Stratum</u> (Plot size: 30 feet)	% Cover	Species	Staus	Number of Dominant	
(1 101 0120. 30 1661)	70 COVE	Opecies	Jiaus	Species that are OBL,	
1				FACW, or FAC: 2	(A)
2				Total Number of Dominant	
3	· · · · · · · · · · · · · · · · · · ·			Species Across all Strata: 2	(B)
4	-			·	
5				Percent of Dominant Species	
6	-			that are OBL, FACW, or FAC: 100.00% ((A/B)
				1 AC. 100.00 %	(A/D)
8					
	0	= Total Cove	er		
50% of total cover: 0	20% of to	otal cover:	0	Prevalence Index Worksheet	
0070 01 10101 00701.	- 2070 01 10	_			
				Total % Cover of:	
Sapling/Shrub Stratum (Plot size: 30 feet)			OBL species x 1 = 0	
1 Diodia virginiana	60	Υ	FACW	FACW species $x 2 = 0$	
2 Cyperus difformis	40	Y	OBL	FAC species x 3 = 0	
3 Rubus trivialis	20	N	FACU	FACU species x 4 = 0	
4 Panicum hemitomon	5	N	OBL	UPL species x 5 = 0	
	5	N	OBL		(D)
·				Column totals (A) 0	(B)
6 Verbena incompta	2	N	FACW		
7 Iris fulva	2	N	OBL	Prevalence Index = B/A =	
8					
	132	= Total Cove	r		
50% of total cover: 66	20% of to	otal cover:	26.4	Hydrophytic Vegetation Indicators:	
30 % of total cover.	- 20 /0 01 10	Jiai Cover.	20.4		
				Rapid test for hydrophytic vegetation	
Herb stratum (Plot size: 30 feet	_)			X Dominance test is >50%	
1				Prevalence index is ≤3.0*	
2				Problematic hydrophytic	
3				vegetation* (explain)	
4	-			*Indicators of hydric soil and wetland hydrology mu	ıot
5				be present, unless disturbed or problematic	.51
6				Definitions of Four Vegetation Strata	
				Definitions of Four Vegetation Strata	
1				Tree- Woody plants, excluding woody vine	
8				approximately 20 ft (6m) or more in height	and
9				less than 3 in. (7.6 cm) DBH.	
0					
1				Sapling/Shrub - Woody plants, excluding	vines
2	-			less than 3 in. DBH and greater than 3.26	
	0	= Total Cove	or	Itali	(, , , ,
50% of total cover: 0		otal cover:	0		
50% of total cover.	20% 01 10	olai covei.	U	Herb - All herbaceous (non-woody) plants,	
				including herbaceous vines, regardless of	
Woody vine stratum (Plot size: 30 feet	_)			and woody plants, except woody vines, les	s than
1				approximately 3 ft (1 m) in height.	
2				Woody vine - All woody vines, regardless	of
3				height.	
4					
5	-			1	
<u> </u>				Hydrophytic	
	0	= Total Cove	er	Vegetation Yes	
50% of total cover: 0	20% of to	otal cover:	0	Present?	
Pomarks: (If observed, list morphological	adaptation	e bolow)			
Remarks: (If observed, list morphological	adaptation	is below).			

SOIL							•	Sampling Point:	DP1		
Profile Desc	cription: (Describe	to the c	lepth neede	d to d	ocume	ent the indic	ator or confirm t	he absence o	f indicators.)		
Depth	Matrix				Redo	x Features					
(Inches)	Color (moist)	%	Color (mo	ist)	%	Type*	Loc**	Texture	Remarks		
0-8	10YR 4/1	95	10YR 5/	8	5	С	М	silty clay			
8-16	7.5YR 4/1	70	7.5YR 4/	/4	30	С	М	silty clay			
+T 0 0								*** (* 5	<u> </u>		
	Concentration, D = D	epletion	, RM = Redu	ced M	atrix, IV	IS = Masked	Sand Grains.		L = Pore Lining, M = Matrix		
-	il Indicators:		,	7-l	lus Dali	Cf /6	20) (I DD C T II)		r Problematic Hydric Soils:		
	sol (A1)			-		·	88) (LRR S, T, U)		ck (A9) (LRR O)		
	c Epipedon (A2) k Histic (A3)					face (S9) (LR	•		Ck (A10) (LRR S)		
	rogen Sulfide (A4)			_	_	y Mineral (F1 d Matrix (F2		Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	tified Layers (A5)			_	-	rix (F3)	,	Anomolous Bright Loamy Soils (F20) (MLRA			
	anic Bodies (A6) (LR	R P. T.		-		Surface (F6)		153B)			
	n Mucky Mineral (A7			Depleted Dark Surface (F7)				Red Pare	ent Material (TF2)		
	k Presence (A8) (LF			-		ssions (F8)	,		llow Dark Surface (TF12)		
	Muck (A9) (LRR P	-			F10) (L				plain in remarks)		
Depl	leted Below Dark Su	ırface (A	11) —	Deplet	ed Ochi	ric (F11) (ML	RA 151)				
Thic	k Dark Surface (A12	2)		ron-N	langane	ese Masses	(F12) (LRR O, P,	and weltand hydrology must be pi			
Coas	st Prairie Redox (A1	6) (MLR	Α 150Α)	Jmbri	c Surfa	ce (F13) (LR	R P, T, U)				
San	dy Mucky Mineral (S	1) (LRR	O, S)	Delta	Ochric	(F17) (MLR	\ 151)		unless disturbed or problematic		
Sand	dy Gleyed Matrix (S	4)		Reduc	ed Ver	tic (F18) (ML	.RA 150A, 150B)				
Sand	dy Redox (S5)			Piedmont Floodplain Soils (F19) (MLRA 149A)							
	ped Matrix (S6)			Anom	olous B	right Loamy	Soils (F20) (MLR	A 149A, 153C	, 153D)		
Dark	Surface (S7) (LRR	P, S, T,	U)								
Restrictive	Layer (if observed)):									
Туре:	Depth (inches)					•	Hydric Soil Present?	Yes			
	Deptil (iliches)										
Remarks:											



Vegetation at DP1 facing north taken 1/27/16





Vegetation at DP1 facing south taken 1/27/16



Vegetation at DP1 facing west taken 1/27/16



Soil profile at DP1 taken 1/27/16

Project/Site	Woodley Plantation	City	y/County: Val	/erda/Pointe (Coupee	Sampling Date:	1/27/2	016		
Applicant/Owner:	BRAC - Baton Rou	ıge Area Chamber	r State:	Louisiar	na	Sampling Point:	DP2	2		
Investigator(s):	Christina Perez, Ka	ale Wetekamm	Section	, Township, F	Range:	Section 121, Tow	nship 6 S, Ra	ange 9 E		
Landform (hillslope, to	errace, etc.):		Local relief (c	oncave, conv	vex, none	e):	Slope (%):	0		
Subregion (LRR or M	LRA): LRR O	Lat: 30°3	32'17.43"N	Long:	91	1°33'45.15"W	Datum:	NAD83		
Soil Map Unit Name_	Se: Sl	harkey silty clay lo	am	NW	/I Classifi	cation:	none			
Are climatic/hydrologi	c conditions of the site	typical for this time	of the year?	Yes (If no, exp	olain in remarks)				
Are vegetation	, soil, oi	r hydrology	significantly d	isturbed?	Are "nor	mal circumstance	s" present?	Yes		
Are vegetation		, ,,	naturally prob		•	ed, explain any an		•		
	NDINGS Attach	site map showir	ng sampling	point locati	ions, tra	ansects, importa	nt features,	, etc.		
Hydrophytic vege	·	Yes								
Hydric soil preser		Yes	Is the	Sampled A	rea with	nin a Wetland?	Yes			
Indicators of wetla	and hydrology present?	Yes		-						
Remarks:										
:"/DDOLOGY										
HYDROLOGY	llingtons									
Wetland Hydrology		ad: abook all that s	-n	Cov	lom.l	la dia ataun (maimima)		الم مدار		
	inimum of one is require	•	_	<u>5ec</u>	-	Indicators (minimu	•	<u>uirea)</u>		
X Surface Water (A1	,	Aquatic Faun	, ,	n.		face Soil Cracks (Bi		(D0)		
High Water Table	(A2)		s (B15) (LRR U			rsely Vegetated Co		e (B8)		
X Saturation (A3)		Hydrogen Su	Ifide Odor (C1)			inage Patterns (B10				
Water Marks (B1)			zospheres on L	.iving		-Season Water Tab				
Sediment Deposits		Roots (C3)				ss Trim Lines (B16)				
Drift Deposits (B3)		Presence of F	Reduced Iron (34)		yfish Burrows (C8)		(00)		
Algal Mat or Crust			Reduction in Til	led	X Saturation Visible on Aerial Imagery (C9)					
Iron Deposits (B5)		Soils (C6)	urfa (O7)			omorphic Position ([J2)			
	on Aerial Imagery (B7)	Thin Muck Su	, ,			llow Aquitard (D3)				
Water-Stained Lea	ves (B9)	Other (Explain	n in Remarks)		X FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)					
					Spin	agnum moss (D6) ((LKK 1, U)			
Field Observations:										
Surface water presen	t? Yes X	No Depth	(inches):	0-4						
Water table present?	Yes		(inches):			Wetland	Yes			
Saturation present?	Yes X		(inches):	0		Hydrology Present?	103			
(includes capillary frin			(11101103).	-		i icaciic:				
	ta (stream gauge, moni	itoring well serial	nhotos previo	us inspection	ne) if av:	ailahla:				
Describe recorded da	ta (stream gauge, moni	toring well, aeriai į	priotos, previo	us mapection	13), 11 ave	aliable.				
Remarks:										
FAC-Neutral Test	·· 1·0									
TAC Neutral Test	. 1.0									

/EGETATION Use scientific names of pla	nts.			Sampling Point: DP	2'
	Absolute	Dominant	Indicator	Dominance Test Worksheet	
<u>Tree Stratum</u> (Plot size: 30 feet)	% Cover	Species	Staus	Number of Dominant	
1				Species that are OBL, FACW. or FAC: 3	(A)
2				·	(八)
3	<u> </u>			Total Number of Dominant Species Across all Strata: 3	(B)
4			-	· · · ———	(D)
· 5				Percent of Dominant Species	
6				that are OBL, FACW, or FAC: 100.00%	(A/B)
7					(=)
 8				·	
~- <u>-</u>	0	= Total Cove	r	·	
FOO/ of total cover: 0		otal cover:	0	Prevalence Index Worksheet	
50% of total cover: 0		Jiai Covei.	U	•	
				Total % Cover of:	
sapling/Shrub Stratum (Plot size: 30 feet	_)			OBL species x 1 =0	
1 Symphyotrichum dumosum	20	Υ	FAC	FACW species x 2 = 0	•
2				FAC species x 3 =0	
3				FACU species x 4 = 0	
4	_			UPL speciesx 5 =0	
5				Column totals (A) 0	(B)
S					
7				Prevalence Index = B/A =	
8				.	
	20	= Total Cove	er		
50% of total cover: 10	20% of to	otal cover:	4	Hydrophytic Vegetation Indicators:	
	_	_		Rapid test for hydrophytic vegetation	
Herb stratum (Plot size: 30 feet)			X Dominance test is >50%	
1 Cyperus difformis		Υ	OBL	Prevalence index is ≤3.0*	
2 Rumex crispus	10	Υ	FAC	Problematic hydrophytic	
3 Trifolium repens	5	N	FACU	vegetation* (explain)	
4 Iris fulva	2	N	OBL	*Indicators of hydric soil and wetland hydrology m	nust
5				be present, unless disturbed or problematic	
6				Definitions of Four Vegetation Strata	
7				Tree- Woody plants, excluding woody vin	_ C
3				approximately 20 ft (6m) or more in height	
9				less than 3 in. (7.6 cm) DBH.	
0			-	` 	
1				Sapling/Shrub - Woody plants, excluding	ı vines
2				less than 3 in. DBH and greater than 3.26	
	27	= Total Cove	r	tall	, ,
50% of total cover: 13.5	20% of to	otal cover:	5.4	Herb - All herbaceous (non-woody) plants	3
	_	_		including herbaceous vines, regardless of	
Woody vine stratum (Plot size: 30 feet)			and woody plants, except woody vines, le	
1	_			approximately 3 ft (1 m) in height.	
2				Woody vine - All woody vines, regardless	s of
3				height.	
4					
5				Hydrophytic	
	0	= Total Cove	r	Vegetation Yes	
50% of total cover: 0	20% of to	otal cover:	0	Present?	
Remarks: (If observed, list morphological	adaptation	is below).			

SOIL						(Sampling Point:	DP2	
Profile Des	cription: (Describe	e to the o	lepth needed t	o docume	ent the indic	ator or confirm t	he absence o	f indicators.)	
Depth	<u>Matrix</u>			Redo	x Features				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-5	7.5YR 4/1	90	7.5YR 4/6	10	С	PL	silty clay		
5-16	7.5YR 4/1	70	7.5YR 4/6	10	С	М	clay		
	7.5YR 3/1	20							
*Type: C = 0	Concentration, D = D	Depletion	, RM = Reduce	d Matrix, N	/IS = Masked	d Sand Grains.	**Location: P	L = Pore Lining, M = Matrix	
Hydric Sc	oil Indicators:						Indicators fo	r Problematic Hydric Soils:	
Hist	isol (A1)		Pol	yvalue Bel	ow Surface (S8) (LRR S, T, U)	1 cm Mud	ck (A9) (LRR O)	
Hist	ic Epipedon (A2)		Thi	n Dark Sur	face (S9) (LF	RR S, T, U)	2 cm Mud	ck (A10) (LRR S)	
Blac	k Histic (A3)		Loa	amy Muck	y Mineral (F	1)	Reduced	Vertic(F18) (outside MLRA 150A,B)	
Hyd	rogen Sulfide (A4)		Loa	amy Gleye	ed Matrix (F2	()	Piedmont Floodplain Soils (F19) (LRR P, S, T		
Stra	tified Layers (A5)		X De	pleted Ma	trix (F3)		Anomolous Bright Loamy Soils (F20) (MLR		
Orga	anic Bodies (A6) (LF	RR P, T,	U) Re	dox Dark S	Surface (F6)		153B)		
5 cn	n Mucky Mineral (A7) (LRR	P, T, U) De	Depleted Dark Surface (F7)				ent Material (TF2)	
Muc	k Presence (A8) (LF	RR U)	Re	dox Depre	essions (F8)		Very Shallow Dark Surface (TF12)		
1 cn	n Muck (A9) (LRR P	, T)		rl (F10) (L	-		Other (ex	plain in remarks)	
Dep	leted Below Dark Su	urface (A	, <u>—</u>		ric (F11) (ML	-			
	k Dark Surface (A12	•		n-Mangan	ese Masses	(F12) (LRR O, P,	*Indicators of hydrophytic vegetation and weltand hydrology must be proposed unless disturbed or problematic		
	st Prairie Redox (A1			ibric Surfa	ice (F13) (LF	RR P, T, U)			
	dy Mucky Mineral (S		O , S) De	lta Ochric	(F17) (MLR	A 151)		unless disturbed of problematic	
	dy Gleyed Matrix (S	4)	Re	duced Ver	tic (F18) (MI	LRA 150A, 150B)			
	dy Redox (S5)				-	s (F19) (MLRA 14	-		
	oped Matrix (S6)			omolous E	Bright Loamy	Soils (F20) (MLR	A 149A, 153C	, 153D)	
Dark	k Surface (S7) (LRR	P, S, T,	U)						
Restrictive	Layer (if observed)):							
Туре:	Depth (inches)):			-	Hydric Soil Present?	Yes		
					-				
Remarks:									



Vegetation at DP2 facing north taken 1/27/16



Vegetation at DP2 facing east taken 1/27/16



Vegetation at DP2 facing south taken 1/27/16



Vegetation at DP2 facing west taken 1/27/16



Soil profile at DP2 taken 1/27/16

Project/Site	Woodley Plantation	City	y/County: Val	/erda/Pointe	Coupee	Sampling Date:	1/27/2	016		
Applicant/Owner:	BRAC - Baton Roi	uge Area Chamber	r State:	Louisia	ına	Sampling Point:	DPS	3		
Investigator(s):	Christina Perez, Ka	ale Wetekamm	Section	, Township,	Range:	Section 79, Tow	nship 6 S, Ra	inge 9 E		
Landform (hillslope, to	errace, etc.):	_	Local relief (c	oncave, cor	nvex, none	e): concave	Slope (%):	0		
Subregion (LRR or M	LRA): LRR O	Lat: 30°3	32'43.66"N	Long:	91	I°33'44.14"W	Datum:	NAD83		
Soil Map Unit Name_	Se: S	harkey silty clay lo	am	NV	VI Classific	cation:	PFO1A			
Are climatic/hydrologi	c conditions of the site	typical for this time	e of the year?	Yes	(If no, exp	lain in remarks)				
Are vegetation	, soil, o	r hydrology	significantly of	listurbed?	Are "nor	mal circumstance	es" present?	Yes		
Are vegetation			naturally prob		-	ed, explain any ar		•		
	NDINGS Attach	site map showing	ng sampling	point locat	tions, tra	nsects, importa	ant features,	etc.		
Hydrophytic vege	•	Yes								
Hydric soil preser		Yes	Is the	Sampled A	Area with	in a Wetland?	Yes			
Indicators of wetla	and hydrology present?	Yes_		-						
Remarks:										
Nemano.										
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (m	inimum of one is requir	ed; check all that a	<u>ap</u>	<u>Se</u>	condary I	ndicators (minimu	um of two requ	uired)		
X Surface Water (A1)	Aquatic Faun	a (B13)		Surf	ace Soil Cracks (B	36)			
High Water Table	(A2)	Marl Deposits	s (B15) (LRR U	l)	Spar	rsely Vegetated Co	oncave Surfac	e (B8)		
X Saturation (A3)		Hydrogen Su	lfide Odor (C1))	Drain	nage Patterns (B1	0)			
Water Marks (B1)		χ Oxidized Rhiz	zospheres on L	ivina	Dry-	Season Water Tab	ole (C2)			
Sediment Deposits	s (B2)	Roots (C3)			Mos	s Trim Lines (B16))			
Drift Deposits (B3)		Presence of F	Reduced Iron (C4)	Cray	fish Burrows (C8)				
Algal Mat or Crust	(B4)	Recent Iron F	Reduction in Til	led	Satu	ıration Visible on A	Aerial Imagery	(C9)		
Iron Deposits (B5)		Soils (C6)			Geomorphic Position (D2)					
Inundation Visible	on Aerial Imagery (B7)	Thin Muck Su	urface (C7)		Shal	llow Aquitard (D3)				
Water-Stained Lea	ives (B9)	Other (Explai	n in Remarks)		X FAC-Neutral Test (D5)					
 		_			Spha	agnum moss (D8)	(LRR T, U)			
Field Observations:										
Surface water presen	t? Yes X		` '—	1-2		Wetland				
Water table present?	Yes	No X Depth	(inches):			Hydrology	Yes			
Saturation present?	Yes X	No Depth	(inches):	0		Present?				
(includes capillary frin	ge)									
Describe recorded da	ta (stream gauge, mon	itoring well, aerial	photos, previo	us inspectio	ons), if ava	ailable:				
Remarks:										
FAC-Neutral Test	:: 3:0									
i										

'EGETATION Use scientific names of plar	nts.			Sampling Point: D	P3
	Absolute	Dominant	Indicator	Dominance Test Worksheet	
<u>Tree Stratum</u> (Plot size: 30 feet)	% Cover	Dominant Species	Staus	Number of Dominant	
(1 lot 5/26. 30 leet)	70 COVEI	opecies	Sidus	Species that are OBL,	
1				FACW, or FAC: 3	(A)
2				Total Number of Dominant	
3				Species Across all Strata: 3	(B)
4					_ ` ′
- <u></u> -				Percent of Dominant Species that are OBL, FACW, or	
s				FAC: 100.00%	(A/B)
<u> </u>				1 AG. 100.0070	_(^(D)
8					
	0	= Total Cove	r		
50% of total cover: 0	20% of to	otal cover:	0	Prevalence Index Worksheet	
		_		Total % Cover of:	
apling/Shrub Stratum (Plot size: 30 feet)			OBL species x 1 =0	_
Sesbania herbacea	10	Y	FACW	FACW species x 2 = 0	
2				FAC species $x 3 = 0$	
3				FACU species x 4 = 0	
1				UPL species x 5 = 0	_
5				Column totals (A) 0	(B)
					__'
~				Prevalence Index = B/A =	
				Prevalence muex - D/A -	
<u> </u>					
	10	= Total Cove	r		
50% of total cover: 5	20% of to	otal cover:	2	Hydrophytic Vegetation Indicators:	
	2.2 3. W	_		Rapid test for hydrophytic vegetation	า
, , , , , , , , , , , , , , , , , , ,	,				•
Herb stratum (Plot size: 30 feet)			X Dominance test is >50%	
1 Cyperus iria	70	<u> </u>	FACW	Prevalence index is ≤3.0*	
2 Cyperus virens	60	Υ	FACW	Problematic hydrophytic	
Symphyotrichum dumosum	30	N	FAC	vegetation* (explain)	
Lythrum alatum	5	N	OBL	*Indicators of hydric soil and wetland hydrology	must
5				be present, unless disturbed or problematic	
6				Definitions of Four Vegetation Strata	
- 7				_	
				Tree- Woody plants, excluding woody vi	
				approximately 20 ft (6m) or more in heig	ht and
				less than 3 in. (7.6 cm) DBH.	
)					
				Sapling/Shrub - Woody plants, excluding	na vine
				less than 3 in. DBH and greater than 3.2	
	165	= Total Cove	<u> </u>	tall	, . (11
50% of total cover: 82.5		otal cover:	33		
50 % of total cover	∠U /0 UI ((olai CUVEI.	33	Herb - All herbaceous (non-woody) plan	
A, , , , , , , , , , , , , , , , , , ,	,			including herbaceous vines, regardless	
Woody vine stratum (Plot size: 30 feet)			and woody plants, except woody vines,	less th
				approximately 3 ft (1 m) in height.	
2				Woody vine - All woody vines, regardles	ss of
3				height.	
1					
- 5					
<u> </u>		T-1 1 C		Hydrophytic	
	0	= Total Cove	r	Vegetation Yes	
50% of total cover: 0	20% of to	otal cover:	0	Present?	
Pamarke: (If observed, list morphological	adantation	e halow)			
Remarks: (If observed, list morphological	auapialion	is Delow).			

SOIL								Sampling Point:	DP3		
Profile Des	cription: (Describe	to the c	depth need	ed to c	locume	ent the indic	ator or confirm	the absence o	f indicators.)		
Depth	<u>Matrix</u>				Redo	x Features					
(Inches)	Color (moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	Remarks		
0-16	2.5Y 4/1	90	10YR 4	1/6	10	С	М	clay			
		<u> </u>									
	Concentration, D = D	epletion	, RM = Red	uced M	1atrix, M	1S = Masked	Sand Grains.		L = Pore Lining, M = Matrix		
-	oil Indicators:					0.5.46			r Problematic Hydric Soils:		
	isol (A1)			•			88) (LRR S, T, U)		ck (A9) (LRR O)		
	ic Epipedon (A2)			=)		face (S9) (LR	-		ck (A10) (LRR S)		
	k Histic (A3)			•	-	y Mineral (F1		Reduced Vertic(F18) (outside MLRA 150A,B)			
	rogen Sulfide (A4) tified Layers (A5)			•		d Matrix (F2 trix (F3)	1	Piedmont Floodplain Soils (F19) (LRR P, S, T Anomolous Bright Loamy Soils (F20) (MLRA			
	anic Bodies (A6) (LR	RPT		•		Surface (F6)		153B)			
						k Surface (F	7)	•	ent Material (TF2)		
	5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U)					ssions (F8)	, ,		llow Dark Surface (TF12)		
	n Muck (A9) (LRR P	-		-	F10) (L l				xplain in remarks)		
	leted Below Dark Su	-	11)	•		ric (F11) (ML	RA 151)		pram in remaine,		
	k Dark Surface (A12	-		•			(F12) (LRR O, P,	*Indicators of hydrophytic vegetation and weltand hydrology must be pro			
	st Prairie Redox (A1	•	A 150A)	Umbri	ic Surfa	ce (F13) (LR	R P, T, U)				
San	dy Mucky Mineral (S	1) (LRR	O, S)	Delta	Ochric ((F17) (MLR	\ 151)		unless disturbed or problematic		
San	dy Gleyed Matrix (S4	4)		Redu	ced Ver	tic (F18) (ML	.RA 150A, 150B)				
San	dy Redox (S5)			Piedmont Floodplain Soils (F19) (MLRA 149A)							
Strip	pped Matrix (S6)			Anom	olous B	right Loamy	Soils (F20) (MLR	A 149A, 153C	, 153D)		
Dark	Surface (S7) (LRR	P, S, T,	U)	-							
							T				
	Layer (if observed)):					Uhadala Oal				
Type:	Depth (inches)	:				• •	Hydric Soi Present?	Yes			
Remarks:											



Vegetation at DP3 facing north taken 1/27/16



Vegetation at DP3 facing east taken 1/27/16



Vegetation at DP3 facing south taken 1/27/16





Soil profile at DP3 taken 1/27/16

Project/Site	Woodley Plantation	Cit	y/County: Valv	erda/Pointe Coupee	Sampling Date:	1/27/2016	j	
Applicant/Owner:	BRAC - Baton Ro	ouge Area Chambe	r State:	Louisiana	Sampling Point:	DP4		
Investigator(s):	Christina Perez, K	Cale Wetekamm	Section	Section, Township, Range: Section 79, Township 6 S, Range				
Landform (hillslope, te	rrace, etc.):		Local relief (c	Local relief (concave, convex, none):			0	
Subregion (LRR or ML	_RA): LRR O	32'42.38"N	Long: 9	1°33'47.10"W	Datum: NA	AD83		
Soil Map Unit Name_	Se: S	Sharkey silty clay lo	am	NWI Classif	fication:	PFO1A		
Are climatic/hydrologic	conditions of the site	typical for this time	e of the year?	Yes (If no, ex	plain in remarks)			
Are vegetation	, soil, c	or hydrology	significantly d	isturbed? Are "no	rmal circumstances	s" present? Yes	s	
Are vegetation	, soil, c	or hydrology	naturally prob	lematic? (If need	ded, explain any an	swers in remarks	s.)	
SUMMARY OF FIN	IDINGS Attach	ı site map showi	ng sampling	point locations, tr	ansects, importa	nt features, etc	c.	
Hydrophytic veget	ation present?	No						
Hydric soil presen	t?	Yes	Is the Sampled Area within a Wetland? No					
Indicators of wetla	and hydrology present	? <u>No</u>						
Remarks:								
HYDROLOGY								
Wetland Hydrology I	ndicators:							
Primary Indicators (mi	nimum of one is requi	red; check all that a	ар	Secondary	Indicators (minimu	m of two require	<u>:d)</u>	
Surface Water (A1))	Aquatic Faun	na (B13)	Sur	rface Soil Cracks (Be	6)		
High Water Table (A2)	Marl Deposits	s (B15) (LRR U) Spa	Sparsely Vegetated Concave Surface (B8)			
Saturation (A3)		Hydrogen Su	ılfide Odor (C1)	Dra	ainage Patterns (B10))		
Water Marks (B1)		Oxidized Rhi:	zospheres on L	ivinaDry	-Season Water Tab	le (C2)		
Sediment Deposits	(B2)	Roots (C3)	2006	-	ss Trim Lines (B16)			
Drift Deposits (B3)		Presence of I	Reduced Iron (0	C4) Cra	ayfish Burrows (C8)			
Algal Mat or Crust ((B4)	Reduction in Tilled Saturation Visible on Aerial Imagery (
Iron Deposits (B5)		Geomorphic Position (D2)						
Inundation Visible of	on Aerial Imagery (B7)	Thin Muck Su	Surface (C7) Shallow Aquitard (D3)					
Water-Stained Leav	ves (B9)	in in Remarks) FAC-Neutral Test (D5)						
				Spl	phagnum moss (D8) (LRR T, U)			
Field Observations:								
Surface water present	:? Yes	No X Depth	(inches):		Wetland			
Water table present?	Yes	No X Depth	(inches):		Hydrology	No		
Saturation present?	Yes	No X Depth	(inches):		Present?			
(includes capillary fring	ge)	· —						
Describe recorded dat	a (stream gauge, mor	nitoring well, aerial	photos, previo	us inspections), if av	railable:			
Remarks:								
1								

VEGETATION Use scientific names of plan	ts.			Sampling Point: DP4
	Absolute	Dominant	Indicator	Dominance Test Worksheet
<u>Tree Stratum</u> (Plot size: 30 feet)	% Cover	Species	Staus	Number of Dominant
(1 lot 6)25	70 COVE	Opecies	Olaus	Species that are OBL,
1				FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across all Strata: 3 (B)
4				Percent of Dominant Species
5				that are OBL, FACW, or
6				FAC: 33.33% (A/B)
7				
8				
	0	= Total Cover		
500/ of total covers 0				Prevalence Index Worksheet
50% of total cover: 0	20% OI IC	otal cover:	0	
				Total % Cover of:
Sapling/Shrub Stratum (Plot size: 30 feet)			OBL species $0 \times 1 = 0$
1 Ambrosia trifida	15	Υ	FAC	FACW species 0 x 2 = 0
2				FAC species 45 x 3 = 135
3				FACU species 135 x 4 = 540
4				UPL species $0 \times 5 = 0$
5				Column totals 180 (A) 675 (B)
6				(X) <u>(X)</u>
7				Prevalence Index = B/A = 3.75
8				1 revalence index = B/A = 3.73
·				
	15	= Total Cover	•	
50% of total cover: 7.5	20% of to	otal cover:	3	Hydrophytic Vegetation Indicators:
				Rapid test for hydrophytic vegetation
Herb stratum (Plot size: 30 feet)			Dominance test is >50%
1 Rubus trivialis	, 70	Υ	FACU	Prevalence index is ≤3.0*
2 Solanum carolinense	60	<u> </u>	FACU	Problematic hydrophytic
3 Ambrosia trifida	30		FAC	vegetation* (explain)
4 Sorghum halepense	5		FACU	
5			TACO	*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
<u></u>				
				Definitions of Four Vegetation Strata
7				Tree- Woody plants, excluding woody vines,
8				approximately 20 ft (6m) or more in height and
9				less than 3 in. (7.6 cm) DBH.
10				
11				Sapling/Shrub - Woody plants, excluding vines,
12				less than 3 in. DBH and greater than 3.26 ft (1m)
	165	= Total Cover		tall
50% of total cover: 82.5	20% of to	otal cover:	33	Herb - All herbaceous (non-woody) plants,
		_		including herbaceous vines, regardless of size,
Woody vine stratum (Plot size: 30 feet)			and woody plants, except woody vines, less than
1	,			approximately 3 ft (1 m) in height.
2				Woody vine - All woody vines, regardless of
3				height.
5				Hydrophytic
	0	= Total Cover	•	Vegetation No
50% of total cover: 0	20% of to	otal cover:	0	Present?
Remarks: (If observed, list morphological a	adantation	s helow)		
Remarks. (ii observed, list morphological a	_λ υαριαιίΟΠ	o below).		

SOIL							,	Sampling Point:	: DP4			
Profile Des	cription: (Describe	to the c	depth need	ded to d	docume	ent the indic	ator or confirm t	the absence o	f indicators.)			
Depth	Depth <u>Matrix</u>				Redo	x Features						
(Inches)	Color (moist)	%	Color (moist) % Type				Loc**	Texture	Remarks			
0-16	10YR 4/2	98	10YR	10YR 4/6 2 C				clay				
	Concentration, D = D	epletion	, RM = Red	duced N	1atrix, N	1S = Masked	Sand Grains.	**Location: F	PL = Pore Lining, M = Matrix			
Hydric Sc	oil Indicators:							Indicators fo	or Problematic Hydric Soils:			
Hist	isol (A1)			Polyva	alue Belo	ow Surface (S	88) (LRR S, T, U)	1 cm Mu	ck (A9) (LRR O)			
Hist	ic Epipedon (A2)			Thin Dark Surface (S9) (LRR S, T, U)				2 cm Muck (A10) (LRR S)				
	k Histic (A3)			_Loam	y Mucky	y Mineral (F1)	Reduced Vertic(F18) (outside MLRA 150A,B)				
	rogen Sulfide (A4)		_	_		d Matrix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)				
	tified Layers (A5)		_	Deple	ted Mat	trix (F3)		Anomolous Bright Loamy Soils (F20) (MLRA				
	anic Bodies (A6) (LR			Redox Dark Surface (F6)				153B)				
5 cm Mucky Mineral (A7) (LRR P, T, U)				Depleted Dark Surface (F7)				Red Parent Material (TF2)				
Muck Presence (A8) (LRR U)				Redox Depressions (F8)				Very Shallow Dark Surface (TF12)				
1 cm Muck (A9) (LRR P, T)				Marl (F10) (LRR U)				Other (explain in remarks)				
	leted Below Dark Su	-	11)	Depleted Ochric (F11) (MLRA 151)								
Thick Dark Surface (A12)				_	-		(F12) (LRR O, P,	Т)	*Indicators of hydrophytic vegetation			
Coast Prairie Redox (A16) (MLRA 150A)				_		ce (F13) (LR	-		and weltand hydrology must be present unless disturbed or problematic			
Sandy Mucky Mineral (S1) (LRR O, S)				Delta Ochiic (F17) (MLRA 151)								
	dy Gleyed Matrix (S	4)		_	Reduced Vertic (F18) (MLRA 150A, 150B)							
							Soils (F19) (MLRA 149A)					
	oped Matrix (S6)	D 0 T	–	_Anom	iolous B	right Loamy	Soils (F20) (MLR	A 149A, 153C	, 153D)			
Dan	Surface (S7) (LRR	P, S, 1,	U)									
Restrictive	Layer (if observed)	:										
Type:						<u>-</u>	Hydric Soi	l Yes				
Depth (inches):				Present?			Present?	103				
Remarks:												



Vegetation at DP4 facing north taken 1/27/16



Vegetation at DP4 facing east taken 1/27/16



Vegetation at DP4 facing south taken 1/27/16



Vegetation at DP4 facing west taken 1/27/16

