

DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS P.O. BOX 60267 NEW ORLEANS, LOUISIANA 70160-0267

JUN 0 1 2011

REPLY TO

Operations Division Surveillance and Enforcement Section

Mr. Ben Summerlin C-K Associates, LLC 17170 Perkins Road Baton Rouge, Louisiana 70810

Dear Mr. Summerlin:

Reference is made to your request, on behalf of J. Ronald Landreneau & Associates, for a U.S. Army Corps of Engineers' (Corps) jurisdictional determination on property located in Sections45 and 46, Township 4 South, Range 2 West, Evangeline Parish, Louisiana (enclosed map). Specifically, this property is identified as a 95.3-acre tract on and west of Industrial Park Road.

Based on review of recent maps, aerial photography, soils data, and the information provided with your request, we have determined that part of the property is wetland and may be subject to Corps' jurisdiction. The approximate limits of the wetland are designated in red on the map. A Department of the Army permit under Section 404 of the Clean Water Act will be required prior to the deposition or redistribution of dredged or fill material into wetlands that are waters of the United States. Additionally, a DA permit will be required if you propose to deposit dredged or fill material into other waters subject to Corps' jurisdiction. Other waters that may be subject to Corps' jurisdiction are indicated in blue on the map.

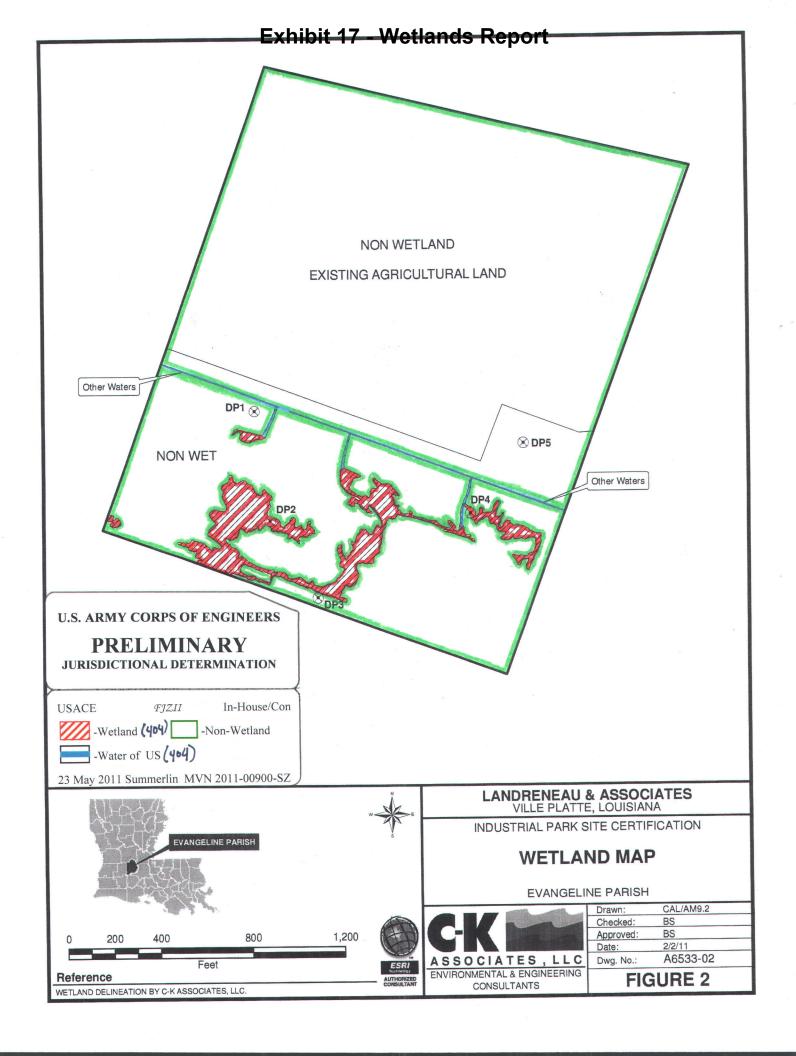
You and your client are advised that this preliminary jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision prior to the expiration date or the District Commander has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.

Should there be any questions concerning these matters, please contact Mr. Furcy Zeringue at (504) 862-2099 and reference our Account No. MVN 2011-00900-SZ. If you have specific questions regarding the permit process or permit applications, please contact our Western Evaluation Section at (504) 862-1950. The New Orleans District Regulatory Branch is committed to providing quality and timely service to our customers. The New Orleans District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please complete and return the enclosed Customer Service Survey.

- Rent a Hiffines

Pete J. Serio Chief, Regulatory Branch

Enclosures



J. RONALD LANDRENEAU & ASSOCIATES, INC

EVANGELINE PARISH WARD 3 INDUSTRIAL PARK SITE CERTIFICATION WETLAND DATA REPORT APPROXIMATE 100 ACRE TRACT EVANGELINE PARISH, LOUISIANA

FEBRUARY 2011

Prepared by:

C-K ASSOCIATES, LLC 17170 PERKINS RD. BATON ROUGE, LA 70810 (225) 755-1000

C-K Associates' Project No. 6533

EVANGELINE PARISH WARD 3 INDUSTRIAL PARK SITE CERTIFICATION WETLAND DATA REPORT APPROXIMATE 95 ACRE TRACT EVANGELINE PARISH, LOUISIANA

1.0 INTRODUCTION

C-K Associates, LLC (C-K) is pleased to report the findings of a preliminary wetland delineation conducted for J. Ronald Landreneau & Associates, Inc. The project is located on an approximate 95-acre site, herein defined as the project area. The project area is located between Louisiana Highway 3042 and Louisiana Highway 1171 on Maxie Ray Blvd, north of Ville Platte in Evangeline Parish, Louisiana. More specifically, the project area is centered at latitude 30°42'59.70"N and longitude 92°16'07.87"W (Figure 1). The purpose of the preliminary wetland delineation and this report is to identify areas that contain potential wetlands and other "Waters of the United States" as defined in 33 CFR 328.3.

Waters of the United States are aquatic areas that are either navigable or have a significant nexus to a navigable water. These areas are regulated by the United States Army Corps of Engineers (USACE). Navigable waters are "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 CFR 329.4). Any area below the ordinary high water mark [33 CFR 328.3(e)] may fall under Federal jurisdiction as a navigable water.

Waters of the United States, regardless of navigability, can generally be categorized as either: 1) deepwater aquatic habitats, 2) special aquatic sites, or 3) other waters of the United States. 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 United States 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 United States (USACE 1987).

Wetlands are classified as a special aquatic site and are defined as "areas that are inundated or saturated 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 and other waters of the United States are referred to as "other waters" in this report.

Exhibit 17 - Wetlands Report Ronald Landreneau & Associates, Inc.

onald Landreneau & Associates, Inc.
Industrial Park Wetland Delineation
February 2011

indicators and soil profiles were documented at each data point (Attachment A). Digital photographic documentation of each data point and general site photographs are included in Attachment B.

Dominant vegetative species accounting for greater than 20% of vegetation present in each data plot were recorded for each vertical stratum: tree canopy or individual trees, sapling layer, shrub layer, herbaceous layer, and woody vine layer. Percent cover for each dominant species was determined by ocular estimation. Plant communities met hydrophytic vegetation criteria if greater than 50% of the dominant species from all strata were classified as obligatory, facultative-wet, or facultative species (USACE 2008).

Wetland hydrology criteria were based on the observation of primary and secondary field indicators. Wetland hydrology criteria were met if one primary field indicator was observed or at least two secondary indicators were observed.

Soil samples 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 7 soil color chart. Hydric soil criteria were met when soil samples indicated a matrix chroma of two or less in mottled soils or a matrix chroma of one or less in unmottled soils.

Data points, other waters, and wetland areas were mapped utilizing a Trimble[®] GeoXH[®] differential global positioning system (DGPS) utilizing real-time corrections. Acreage was obtained by exporting the data from the DGPS unit into ESRI[®] ArcMap Version 9.3 drafting software.

4.0 RESULTS

Five data points were collected during the field investigation (Figure 2). DP2 and DP4 indicated the presence of wetlands by containing hydrophytic vegetation, wetland hydrology indicators, and field characteristics of hydric soils. DP1, DP3 and DP5 contained either hydric soil characteristics or hydrophytic vegetation, however, these points lacked wetland hydrology indicators. Based on the field observations there was one other "waters of the U.S." identified in the project area. Much of the acreage within the project, primarily the area north of the road, is currently in agriculture and had recently been plowed during the site visit. A summary of data collected by C-K is provided below.

4.1 Vegetation

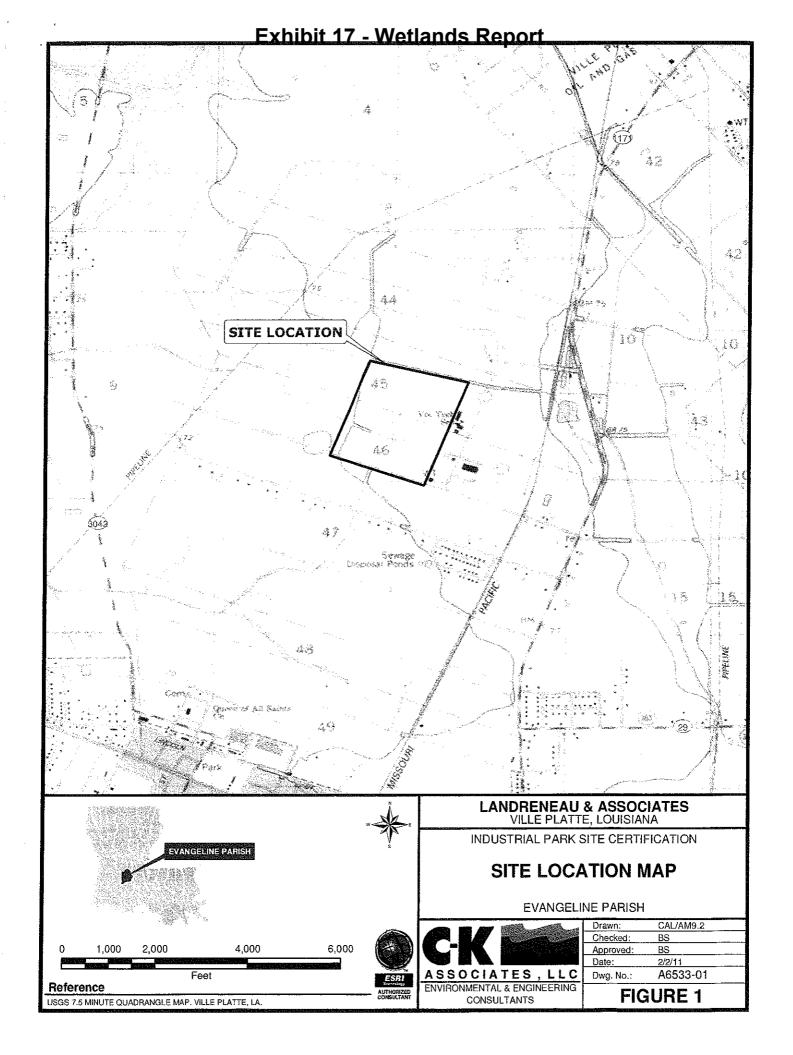
The project area is currently dominated by two habitats: 1) agricultural fields and 2) mowed/maintained fields. The agricultural fields are located north of the road and make up the largest portion of the project area. The mowed fields are located to the south of the road. The agricultural fields had been recently plowed prior to C-K's field investigation and were void of vegetation. Typical dominant vegetation in the mowed fields included: common carpetgrass (Axonopus

6.0 LITERATURE CITED

- Natural Resources Conservation Service [NRCS]. 2006. Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils, Version 5.0. G.W. Hurt and L.M. Vasilas (eds.). U.S. Department of Agriculture, Natural Resources Conservation Service, Ft.Worth, Texas, U.S.A.
- Natural Resources Conservation Service [NRCS]. 2010a. National Hydric Soils List by State. U.S. Department of Agriculture, Natural Resources Conservation Service, Soil Survey Staff. http://websoilsurvey.nrcs.usda.gov/app/. Accessed 3 February, 2011.
- Natural Resource Conservation Service [NRCS]. 2010b. Official Soil Series

 Descriptions. U.S. Department of Agriculture, Natural Resource Conservation
 Service. http://soils.usda.gov/technical/classification/osd/index.html.

 Accessed 3 February, 2011.
- Natural Resource Conservation Service [NRCS]. 2010c. PLANTS Database. U.S. Department of Agriculture, Natural Resource Conservation Service. http://plants.usda.gov/index.html. Accessed 3 February, 2011.
- Natural Resources Conservation Service [NRCS]. 2010d. Web Soil Survey. U.S. Department of Agriculture, Natural Resources Conservation Service, Soil Survey Staff. http://websoilsurvey.nrcs.usda.gov/app/. Accessed 3 February, 2011.
- Soil Conservation Service [SCS]. 1974. Soil Survey of Evangeline Parish. U.S. Department of Agriculture Soil Conservation Service. August 1974.
- U.S. Army Corps of Engineers. 1987. Corps of Engineers Wetland Delineation Manual. Wetland Research Program Technical Report Y-87-1, Waterways Experiment Station, Environmental Laboratory, Vicksburg, MS.
- U.S. Army Corps of Engineers [USACE]. 2008. Interim Regional Supplement to the Corp of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi, U.S.A.



ATTACHMENTS

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Industrial Park 100-acre Delineation City/	County: Evangeline	Sampling Date: 1/28/2011			
Applicant/Owner: J. Ronald Landreneau & Associates, Inc.					
Investigator(s): B. Summerlin Section, Township, Range:					
Landform (hillslope, terrace, etc.): terrace Loca					
Subregion (LRR or MLRA): LRR T Lat: 30°43'03					
		classification: N/A			
Are climatic / hydrologic conditions on the site typical for this time of year?					
		ances" present? Yes No			
Are Vegetation, Soil, or Hydrology significantly distu					
Are Vegetation, Soil, or Hydrology naturally problem SUMMARY OF FINDINGS — Attach site map showing sai		y answers in Remarks.)			
		ioodo, important roadaroo, oto.			
Hydrophytic Vegetation Present? Yes No✓	is the Sampled Area				
Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes No ✓	within a Wetland? Ye	es No <u> </u>			
Wetland Hydrology Present? Yes No ✓ Remarks:	<u>L.</u>				
Plot located in mowed area south of road.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondar	y Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surfa	ace Soil Cracks (B6)			
Surface Water (A1) Water-Stained Leave	es (B9) Spar	sely Vegetated Concave Surface (B8)			
High Water Table (A2) Aquatic Fauna (B13)	Drain	nage Patterns (B10)			
Saturation (A3) Marl Deposits (B15)	(LRR U) Moss	Trim Lines (B16)			
Water Marks (B1) Hydrogen Sulfide Oc	lor (C1) Dry-5	Season Water Table (C2)			
	res on Living Roots (C3) Crayf				
Drift Deposits (B3) Presence of Reduce	-	ration Visible on Aerial Imagery (C9)			
		norphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (Inundation Visible on Aerial Imagery (B7) Other (Explain in Re		ow Aquitard (D3) Neutral Test (D5)			
Field Observations:	FAC-	Neutral Test (D3)			
Surface Water Present? Yes No _✓ Depth (inches): N/	A	}			
Water Table Present? Yes No ✓ Depth (inches): N/					
Saturation Present? Yes No V Depth (inches): N	f	Present? Yes No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	·				
Aerial photographs do not indicate wetland signature at plot Remarks:	location.				
Plot was taken in a slightly higher portion of the site.					
		į			

Exhibit 17 - Wetlands Report SOIL Sampling Point: DP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features (inches) Color (moist) Color (moist) 0-10 10YR 4/3 100 silt loam 10-16 10YR 5/2 80 10YR 4/6 20 C silt loam Μ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: _ Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) ___ 1 cm Muck (A9) (LRR O) _ Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) ___ 2 cm Muck (A10) (LRR S) ___ Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) ___ Reduced Vertic (F18) (outside MLRA 150A,B) ___ Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) ___ Piedmont Floodplain Soils (F19) (LRR P, S, T) ___ Stratified Layers (A5) ___ Depleted Matrix (F3) ___ Anomalous Bright Loamy Soils (F20) ___ Organic Bodies (A6) (LRR P, T, U) __ Redox Dark Surface (F6) (MLRA 153B) ___ Depleted Dark Surface (F7) 5 cm Mucky Mineral (A7) (LRR P, T, U) Red Parent Material (TF2) __ Muck Presence (A8) (LRR U) ... Redox Depressions (F8) Very Shallow Dark Surface (TF12) (LRR T, U) _ 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) 3 Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) ___ Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present. ___ Delta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) _ Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: N/A Depth (inches): N/A **Hydric Soil Present?** Remarks: well drained area. No water in pit or on ground, despite recent heavy rains.

VEGETATION – Use scientific names of plants.

Sampling Point: DP2

	Absolute		nt Indicator	Dominance Test worksheet:		
Tree Stratum (Plot sizes:)	% Cover	Species	? Status	Number of Dominant Species	2	(4)
				That Are OBL, FACW, or FAC:		(A)
2.				Total Number of Dominant	2	
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	4000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of: //	Jultiply by:	
Sapling Stratum ()		= Total C	Cover	OBL species x 1 =		_
1				FACW species x 2 =		
2				FAC species x 3 =		
				FACU species x 4 =		
3				UPL species x 5 =		
4				Column Totals: (A)		
5.				Goldmir rotals (71)		_ (D)
6				Prevalence Index = B/A =		
7				Hydrophytic Vegetation Indicator	s:	
Shrub Stratum ()		= 10tar C	over	✓ Dominance Test is >50%		
1				Prevalence Index is ≤3.01		
2.				Problematic Hydrophytic Vegeta	ation ¹ (Explair	n)
3.						
4				¹ Indicators of hydric soil and wettand	d hydrology m	ust
5				be present.		
6.						
7				Definitions of Vegetation Str	ata:	
			over			
Herb Stratum (1/10 acre)				Tree ⊡Woody plants, excluding w	oody vines,	
1. Andropogon virginicus	_60	yes	FAC	approximately 20 ft (6 m) or more in	_	
2. Paspalum vrvillei		yes	<u>FAC</u>	3 in. (7.6 cm) or larger in diameter a	at breast	}
3. Juncus effusus	_ 5	no	FACW	height (DBH).		
4. Ranunculus muricatus		no		Sapling ⊑Woody plants, excludin	na woody vine	
5. Eleocharis palustris	5	no	OBL	approximately 20 ft (6 m) or more in		
6.				than 3 in. (7.6 cm) DBH.	, , , o . g . n a . n	
7.						
8.				Shrub :: Woody plants, excluding	-	
9				approximately 3 to 20 ft (1 to 6 m) in	n height.	
10.				Llowb = All books /	Andreas Small	
11.				Herb □All herbaceous (non-wood) herbaceous vines, regardless of siz	• • •	aaing
12.				woody plants, except woody vines,		
75'	95	= Total Ci	over	approximately 3 ft (1 m) in height.		
Woody Vine Stratum ()		Total o	0701			
1.				Woody vine □ All woody vines, re	egardless of h	eight.
2						İ
3.						
4.						
5				Hydrophytic		
·	· <u> </u>			Vegetation Yes N	in	
		~ 10tai 0t	JV61			
Remarks: (If observed, list morphological adaptations beli	ow).	,				

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Industrial Park 100-acre Delineation Cit	y/County: Evangeline Sampling Date: 1/28/2011
Applicant/Owner: J. Ronald Landreneau & Associates, Inc.	State: LA Sampling Point: DP3
D. O	ction, Township, Range:
	cal relief (concave, convex, none): none Slope (%): 0%
	5.39"N Long: 92°16'10.86"W Datum: WGS84
Soil Map Unit Name: Patoutville-Crowley Complex	
	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	to the Country Asses
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No✓
Wetland Hydrology Present? Yes No	within a wetland? TesNo
Remarks:	
Plot located on a well drained area alongside ditch.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Lea	
High Water Table (A2) Aquatic Fauna (B1	3) Drainage Patterns (B10)
Saturation (A3) Marl Deposits (B15	
Water Marks (B1) Hydrogen Sulfide (Odor (C1) Dry-Season Water Table (C2)
	eres on Living Roots (C3) Crayfish Burrows (C8)
Drift Deposits (B3) Presence of Reduc	
	tion in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in F	_ , , , ,
Field Observations:	enans) TAC-Neural rest (D3)
Surface Water Present? Yes No _ ✓ Depth (inches):	I/A
Water Table Present? Yes No _ ✓ Depth (inches): _^	
Saturation Present? Yes No V Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, parial photographs do not indicate wetland signature at plo	
Remarks:	X location.
·	

SOIL, Sampling Point: DP3

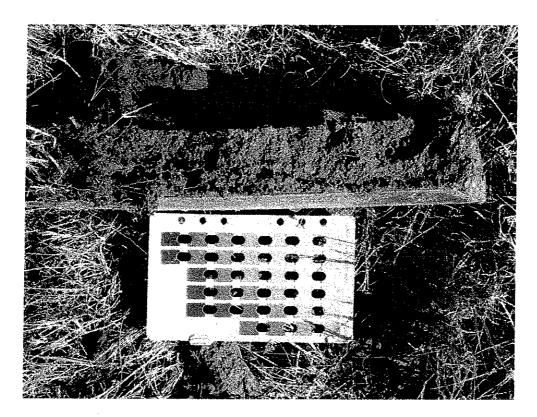
(inches)	Matrix			Features				
ΩA	Color (moist)		Color (moist)	% Type¹	Loc ²	Texture	Remarks	
0-4	10YR 4/4	_ 100 _		<u>C</u>	<u> </u>	silt loam		
4-16	10YR 5/2	100		<u>C</u>	_ <u>M</u>	silt loam		
							· · · · · · · · · · · · · · · · · · ·	
								
								
Evne: C=Co	ncentration, D=Dep	alotion PM-Po	duced Matrix CS-4	Toward or Costo		oina 2t cont	ion, DI - Daro Linias, M-	Mantaire
ydric Soil Ir		Jiedon, rdvi~rte	duced Wallix, CS-C	Sovered of Coale	a Sanu Gi	·	ion: PL=Pore Lining, M= r Problematic Hydric So	
_ Histosol ((A1)	_	Polyvalue Belov	v Surface (S8) (Li	RR S, T, L		k (A9) (LRR O)	
	pedon (A2)	_		ce (S9) (LRR S , 1		2 cm Muc	k (A10) (LRR S)	
Black His		_		lineral (F1) (LRR	O)		Vertic (F18) (outside ML	
	Sulfide (A4)	-	Loamy Gleyed I				Floodplain Soils (F19) (L	
	Layers (A5)	-	Depleted Matrix				is Bright Loamy Soils (F2	20)
-	Bodies (A6) (LRR P cky Mineral (A7) (LF		Redox Dark Sui Depleted Dark \$			(MLRA	153B) nt Material (TF2)	
	sence (A8) (LRR U		Redox Depress				incivialenai (1F2) Iow Dark Surface (TF12)	/I DD T 11
	k (A9) (LRR P, T)	_	Marl (F10) (LRF				plain in Remarks)	(LRR I, U
	Below Dark Surface	e (A11)		: (F11) (MLRA 15	1)	Other (EX	piain in Remarks)	
	k Surface (A12)			Masses (F12) (L		T) ³ Indicator	s of hydrophytic vegetati	on and
Coast Pra	irie Redox (A16) (M	/ILRA 150A) _	Umbric Surface	(F13) (LRR P, T,	U)		d hydrology must be pres	
_ •	ıcky Mineral (S1) (L	_RR O, S)	Delta Ochric (F1				,	
	eyed Matrix (S4)	-		(F18) (MLRA 150				
_ Sandy Re		_		płain Soils (F19) (-		
	/latrix (S6) ace (S7) (LRR P, S	- T III	Anomalous Brig	ht Loamy Soils (F	20) (MLR	A 149A, 153C, 15	3D)	
	ayer (if observed):					T		
Type: N/A						· ·		
Depth (inch	nes): N/A		· -			Hydric Soil Pre	esent? Yes	No <u> </u>
			····					
emarks:								
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/EGETATION – Use scientific names of plants	•			Sampling Po	oint: <u>DP4</u>
T. O (D			nt Indicator	Dominance Test worksheet:	
Tree Stratum (Plot sizes:) 1)				Number of Dominant Species That Are OBL, FACW, or FAC: 3	(A
2				Total Number of Dominant Species Across All Strata: 5	(B
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 60	0% (A
6			-	Prevalence Index worksheet:	
7				,	tiply by:
Sapling Stratum ()		= Total C	Cover	OBL species x 1 =	
1				FACW species x 2 =	
2				FAC species x3=	
3				FACU species x 4 =	
4				UPL species x 5 =	
5.				Column Totals:(A)	
3.					
7				Prevalence Index = 8/A =	
and the second s			over	Hydrophytic Vegetation Indicators:	
Shrub Stratum ()				Dominance Test is >50%	
·				Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetatio	n¹ (Explain)
3					
4			<u> </u>	Indicators of hydric soil and wetland hy be present.	/drology must
j,				be present.	
3.					
7 ·				Definitions of Vegetation Strata	1 :
Herb Stratum(_1/10 acre)		= Total C	over	Troo SWeeks leads analysis and a	d
Avananua figaifalius	40	yes	FACW	Tree \(\text{\tinx}\text{\tinx}\text{\tinx}\text{\tiliex{\text{\tex{\tex	
2. Cynodon dactylon	10	ves	FACU	3 in. (7.6 cm) or larger in diameter at b	_
Ranunculus muricatus	10	yes	17.00	height (DBH).	
1	40	yes	FACW		
. Juncus eπusus s. Eleocharis palustris		ves	OBL	 Sapling ⊕Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les than 3 in. (7.6 cm) DBH. 	
			<u> </u>		
				Shrub ⊡Woody plants, excluding woo	ody vines,
				approximately 3 to 20 ft (1 to 6 m) in he	eight,
0				Have CAN best constant of	
1.				Herb □ All herbaceous (non-woody) p herbaceous vines, regardless of size.	
2				woody plants, except woody vines, less	
	80	= Total Co	over	approximately 3 ft (1 m) in height.	
Voody Vine Stratum()					
				Woody vine ⊕All woody vines, regal	rdless of heig
·					
· ·				Hydrophytic	
·				Vegetation	
		= Total Co	over	Present? Yes No _	
temarks: (If observed, list morphological adaptations below	Ñ).				
(TTTTTT, IIII III III III III III III III	· P				

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Industrial Park 100-acre Delineation City/O	County: Evangeline	Sampling Date: 1/28/2011				
Applicant/Owner: J. Ronald Landreneau & Associates, Inc.		· · · · · · · · · · · · · · · · · · ·				
Investigator(s): B. Summerlin Section, Township, Range:						
Landform (hillslope, terrace, etc.): terrace Local						
Subregion (LRR or MLRA): LRR T Lat: 30°43'01.						
Soil Map Unit Name: Patoutville-Crowley Complex		NWI classification: N/A				
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (if no	o, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circ	cumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, expla	in any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations	transects, important features, etc.				
Hydrophytic Vegetation Present? Yes _ ✓ No						
Hydric Soil Present? Yes No✓	Is the Sampled Area					
Wetland Hydrology Present? Yes No	within a Wetland?	Yes No				
Remarks:						
Plot taken in the tract north of the road in the southeast corr	er. The southeast con	ner of the northern tract is the only				
section north of the road that is not actively in agriculture. T						
baseball. Bases and backstops are still present although th						
Y Y						
HYDROLOGY						
Wetland Hydrology Indicators:	Sec	ondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves	(B9)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Aquatic Fauna (B13)	_	Drainage Patterns (B10)				
Saturation (A3) Marl Deposits (B15) (_RR Ü)	Moss Trim Lines (B16)				
Water Marks (B1) Hydrogen Sulfide Odd	or (C1)	Dry-Season Water Table (C2)				
Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3)	Crayfish Burrows (C8)				
Drift Deposits (B3) Presence of Reduced	· · · · —	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Recent Iron Reduction		Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	arks)	FAC-Neutral Test (D5)				
Field Observations: Surface Water Present? Yes No _✔ Depth (inches): N/A						
NU.						
Water Table Present? Yes No _ ✓ Depth (inches): N/A Saturation Present? Yes No _ ✓ Depth (inches): N/A	·					
(includes capillary fringe)	vvetiand Hydro	ology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections), if available	:				
Aerial photographs do not indicate wetland signature at plot l	ocation.					
Remarks:						
		-				
		All and a second a				
		İ				

SOIL Sampling Point: DP5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) (inches) Type¹ Texture 0-8 10YR 4/4 100 C silt loam Μ 8-16 10YR 4/3 100 С silt loam Μ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) ___ 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) ___ Thin Dark Surface (S9) (LRR S, T, U) ___ 2 cm Muck (A10) (LRR S) Błack Histic (A3) ___ Loamy Mucky Mineral (F1) (LRR O) ___ Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) ___ Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) ___ Depleted Matrix (F3) Stratified Layers (A5) __ Anomalous Bright Loamy Soils (F20) ___ Redox Dark Surface (F6) Organic Bodies (A6) (LRR P, T, U) (MLRA 153B) ___ Depleted Dark Surface (F7) 5 cm Mucky Mineral (A7) (LRR P, T, U) Red Parent Material (TF2) ___ Redox Depressions (F8) Muck Presence (A8) (LRR U) _ Very Shallow Dark Surface (TF12) (LRR T, U) _ 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) ___ Depleted Ochric (F11) (MLRA 151) Depleted Below Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) ___ Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present. Sandy Mucky Mineral (S1) (LRR O, S) ___ Delta Ochric (F17) (MLRA 151) ___ Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) ___ Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) ___ Stripped Matrix (S6) ___ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: N/A Depth (inches): N/A **Hydric Soil Present?** Remarks:



DP1 Soil Profile



DP1 Habitat Photo



DP3 Soil Profile



DP3 Habitat Photo



DP5 Soil Profile



DP5 Habitat Photo