Exhibit FF. Port Barre Industrial Park - East Site Wetlands Delineation Report







Port Barre Industrial Park - East Site Wetlands Delineation Report

WETLAND DELINEATION
PORT BARRE INDUSTRIAL PARK
86.7-ACRE EAST SITE TRACT
PORT BARRE, ST. LANDRY PARISH, LOUISIANA

Prepared for:

One Acadiana 804 East St. Mary Blvd. Lafayette, Louisiana 70503

January 7, 2019

C. Blaine Johnson, P.E.

Managing Owner

Cleveland Hoffpauir

Environmental Scientist

Prepared by:

Southland Environmental, LLC

510 Clarence Street Lake Charles, Louisiana 70602 (337) 436-3248

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SUMMARY

Approximate 86.7 acres of property located south of Highway 190 in Port Barre, St. Landry Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The property is currently planted in soybeans and appears to have been in agriculture for many years. Soils present on the property, as mapped by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) includes Baldwin silty clay loam, and Dundee silt loam. The investigated property is undeveloped and herbaceous (non-woody), void of any trees, shrubs, or vines.

The wetland delineation was performed in accordance with the procedures and methods as described in the U.S. Department of the Army Corps of Engineers (COE) 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plain Regional Supplement 2010.

Based on the results of this delineation, approximately 0.7 acre of wetlands are present within the property boundary. In addition to wetlands, approximately 4,500 linear feet of drains are present on the investigated property. These drains will likely be considered Section 404 non-wetland waters by the COE.

1.0 INTRODUCTION

Southland Environmental, LLC (Southland Environmental) was retained by One Acadiana to conduct a wetland delineation of property located south of Highway 190 in Port Barre, St. Landry Parish. The property is located in Section 4, Township 06 South, Range 05 East. The center of the tract is Latitude 30° 32' 38.91" Longitude 91° 56' 45.76". The purpose of the delineation was to evaluate the property for the potential presence of wetlands. A site location map is included as **Figure 1** and a site diagram is included as **Figure 2**. LIDAR imagery was also reviewed and is included as **Figure 3**. LIDAR is a remote sensing method that uses a near-infrared laser to map changes in elevation of the surface of the Earth.

Cleve Hoffpauir of Southland Environmental performed the field evaluation on November 27, 2018. Mr. Hoffpauir has a Bachelors of Science Degree in Environmental Science and has had specialized training in environmental investigations. Mr Hoffpauir has been performing wetland delineations for approximately ten years. Blaine Johnson managed the project. Mr. Johnson has over twenty years experience in environmental investigation and permitting, with over fifteen years experience in wetland permitting. Copies of the applicable Certificates of Training are included as **Attachment A**.

2.0 METHODOLOGY

The wetland delineation performed by Southland Environmental was conducted in accordance with technical guidelines and methods for wetland delineations set forth by the COE in the 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plains Regional Supplement 2010. These technical guidelines and methods utilize a multi-

parameter approach to identify and delineate wetlands for the purposes of Section 404 of the Clean Water Act.

According to the COE 1987 Manual for Wetland Delineations, a site must have hydrophytic vegetation, hydric soils, and wetland hydrology in order for it to be classified as a wetland. The following definitions are from the COE 1987 Manual for Wetland Determinations:

Hydrophytic vegetation – 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. When hyrophytic vegetation comprises a community where indicators of hydric soils and wetland hydrology also occur, the area has wetland vegetation.

Wetland soils – a soil that is saturated, flooded, ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (US Department of Agriculture – Soil Conservation Service 1985). Hydric soils that occur in areas having positive indicators of hydrophytic vegetation and wetland hydrology are wetland soils.

Wetland hydrology – the sum total of wetness characteristics in areas that are inundated or have saturated soils for sufficient duration to support hydrophytic vegetation.

Prior to the site visit, the St. Landry Parish Soil Survey prepared by the USDA-NRCS was reviewed. The purpose of that review was to determine the soil types as mapped by USDA. As indicated by the Soil Survey for St. Landry Parish, soils on the delineated property includes two soil types: Baldwin silty clay loam (Bd) and Dundee silt loam (De). Bd soils are listed as hydric in St. Landry Parish. In addition to the soils map, infrared aerial photography was reviewed. The soil map and infrared photograph is included as **Attachment B**.

The delineation was begun by traversing the property and making a general evaluation of the topography and drainage features. Sample points were selected at appropriate locations to properly characterize the soil, vegetation, and hydrology on the investigated property. Seven representative sample points were selected and detailed evaluations were conducted at these locations. The data collected at these sample points were recorded on Wetland Data Forms and the location of each sample plot was marked with a Trimble Global Positioning Unit (GPS). The Wetland Data Forms are included as **Attachment C**.

After a general evaluation of the tract and conducting data points, a Trimble GPS was utilized to map the wetland areas. Once GPS mapping was completed, geospatial data was imported into ArcView GIS for graphical display and land cover analysis.

3.0 SITE DESCRIPTION

The delineated property is located adjacent to and south of Highway 190 in Port Barre, St. Landry Parish. The investigated property encompasses approximately 86.7 acres. Based on aerial photography review and the site investigation, the property has been in agriculture production for many years. As noted earlier in this report, the USDA-NRCS soil maps indicate that soils on the property consist of two soil types: Bd and De. Bd soils are listed as hydric in St. Landry Parish. The property is currently planted in soybeans. The dominant vegetation present in the non-wetland areas include soybean (*Glycine max*) and Annual Bluegrass (*Poa annua*). Eight small wetland areas were identified on the property. The dominant vegetation in these wetland areas consisted of barnyard grass (*Echinochloa crus-galli*) and sedges (*Cyperus sp.*). These species are Facultative Wetland (FACW) and commonly occur in wetlands. The majority of the property is well drained and did not demonstrate wetland characteristics. Drains were identified on the property and will likely be considered non-wetland waters by the COE.

Photographs of the sample locations were taken and are included as **Attachment D**.

4.0 FINDINGS

The property was inspected with respect to the potential presence of wetlands. Seven sample points were selected to characterize the site. At these sample points, the soils, hydrology, and vegetation were characterized and the information recorded on Wetland Data Forms. The findings of the delineation are described in the following sections.

4.1 VEGETATION

The typical dominant plant species that were encountered at the site included the following:

FACULTATIVE UPLAND

Poa annua (Annual Bluegrass)
Mazus pumilus (Japanese mazus)

FACULTATIVE WETLAND

Echinochloa crus-galli (Barnyard grass) Cyperus iria (Rice Field Sedge)

NO INDICATOR

Glycine max (Soybean)

Two of the seven sample points had a dominance of hydrophytic vegetation.

4.2 SOILS

The review of the Soil Survey indicated that the delineated tract is located on two soil types. Below is a brief description of the soils from the Soil Survey of St. Landry Parish.

- Baldwin silty clay loam (Bd): Bd soil is level and poorly drained, located in intermediate and low positions on natural levees of old distributary channels of the Mississippi River. Slopes are less than 1 percent. Bd soil is listed as hydric in St. Landry Parish.
- Dundee silt loam (De): De soil is level and somewhat poorly drained. It is located on the highest parts of natural levees of old distributary channels of the Mississippi River. Slopes are less than 1 percent. De soil is not listed as hydric in St. Landry Parish.

4.3 HYDROLOGY

General observations and inspections of soil samples were performed to evaluate for wetland hydrology. Potential primary indicators include inundated areas, saturated soil in the upper 12 inches, free water in the soil, water marks, drainage patterns of wetlands, and sediment deposits. Sample plots 8 and 10 exhibited primary wetland hydrology indicators saturation and surface water. The secondary wetland hydrology indicator FAC neutral test was also present in sample plots 8 and 10. One primary indicator or two secondary indicators must be present for an area to have wetland hydrology.

5.0 CONCLUSIONS

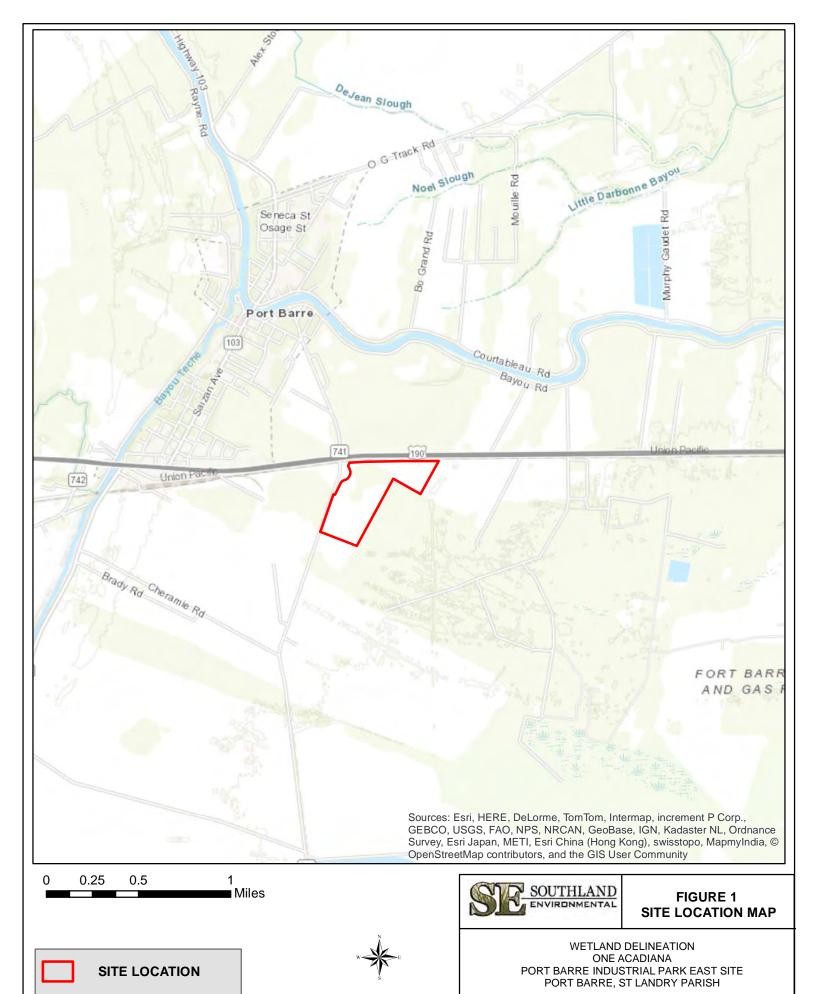
Approximately 86.7 acres of property located along Highway 190 in Port Barre was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the COE 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plain Regional Supplement 2010.

The investigated property consist of agriculture fields currently planted in soybeans. The majority of the property did not demonstrate characteristics typical of a wetland. A few depressional areas located on the tract were determined to contain wetlands. These depressional areas demonstrated hydrophytic vegetation, wetland hydrology, and hydric soils and were determined to be wetlands. In addition to wetlands, several drains are located on the property and will likely be considered Sec. 404 non-wetland waters by the COE.

Based on the results of this delineation, approximately 86 acres of non-wetlands, 0.7 acre of wetlands and 4,500 linear feet of non-wetland waters are present on the eastern tract of the investigated property.

FIGURE 1

Site Location Map



 Drawn By:
 CRH
 Date:
 10/25/18
 Project #11724

 Checked By:
 CBJ
 Date:
 10/25/18
 Revised:
 01/07/19

FIGURE 2

Site Diagram

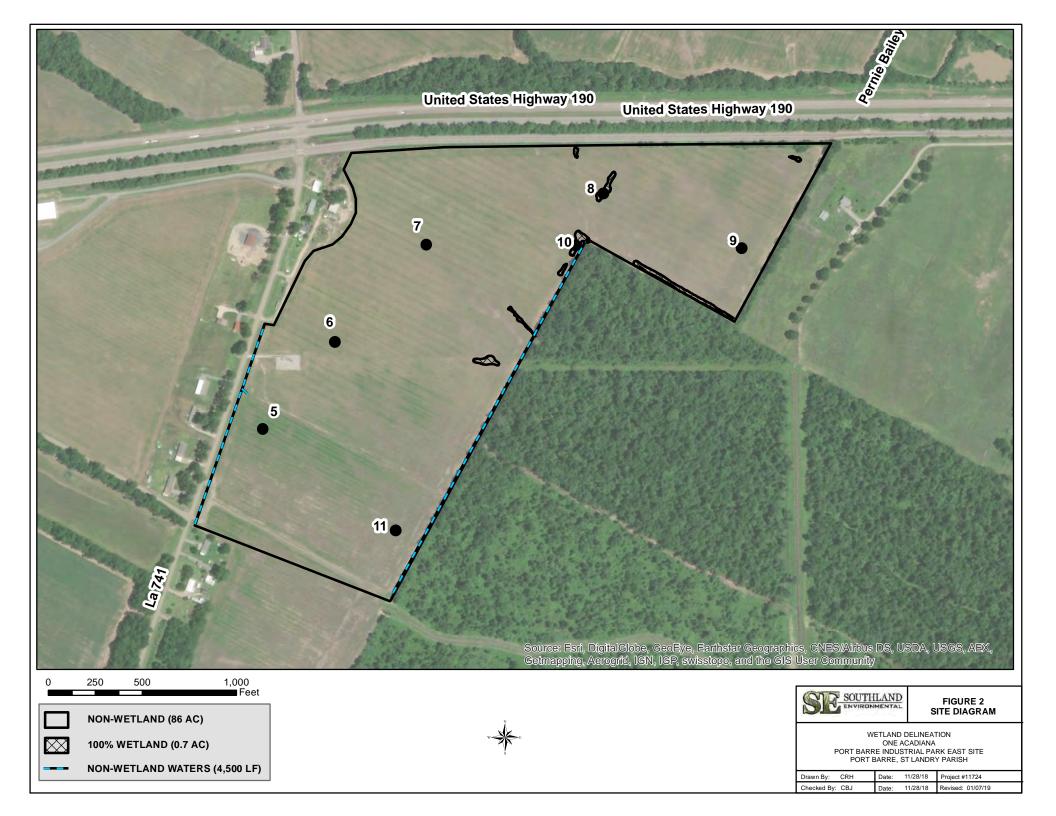
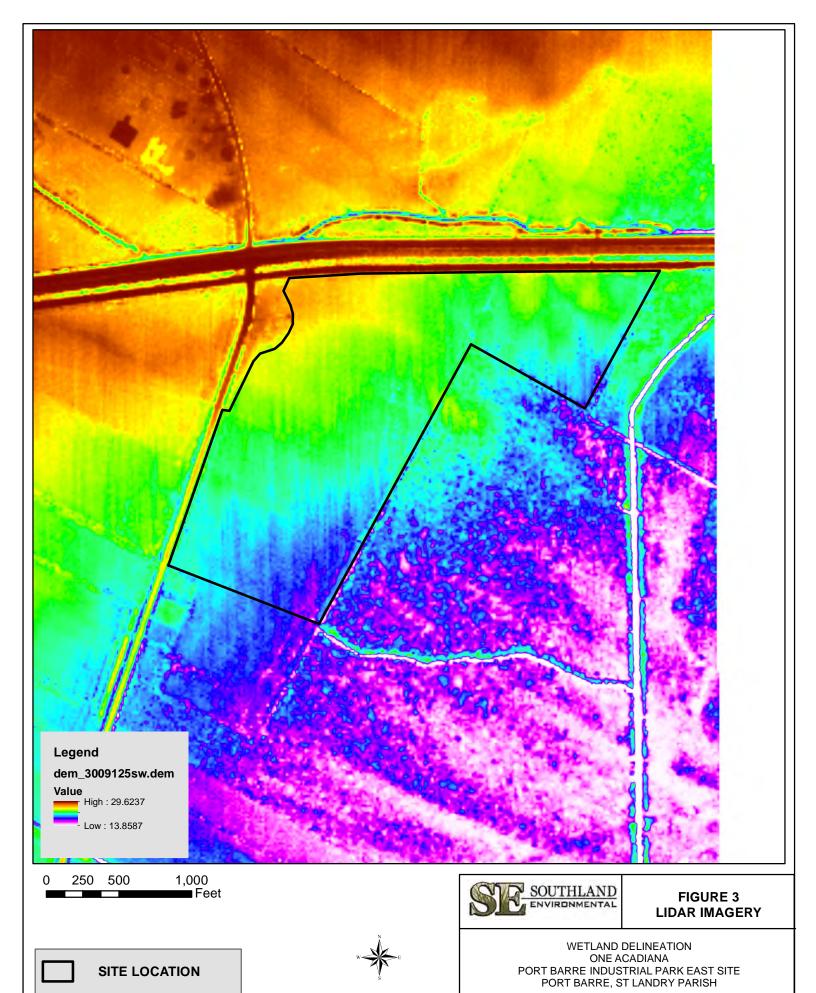


FIGURE 3

LIDAR Imagery



 Drawn By:
 CRH
 Date:
 10/25/18
 Project #
 11724

 Checked By:
 CBJ
 Date:
 10/25/18
 Revised:
 01/07/19

ATTACHMENT A

Certificates of Training

Richard Chinn Environmental Training, Inc.

certifies that

Cleve Hoffpauir

has successfully completed a

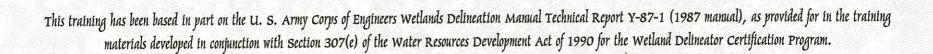
4 day 38 hour Army Corps of Engineers Wetland Delineation Training Program

issued Certificate No. 4666 and 3.8 CEUs on this first day of June, 2007, in Austin, Texas

Richard Chinn, PWS, CET,

Richard Chinn Environmental Training, Inc. 804 Cottage Hill Way, Brandon, FL 33511-8098

1.800.427.0307 • FAX: 1.888.457.6331 • info@richardchinn.com • http://www.richardchinn.com





Certificate of Training Hydric Soil Updates

This certifies that

Cleveland Hoffpauir

has participated in 2 hours of instruction.

Date: March 22, 2018



RALEIGH, NC 27603 1-877-479-2673

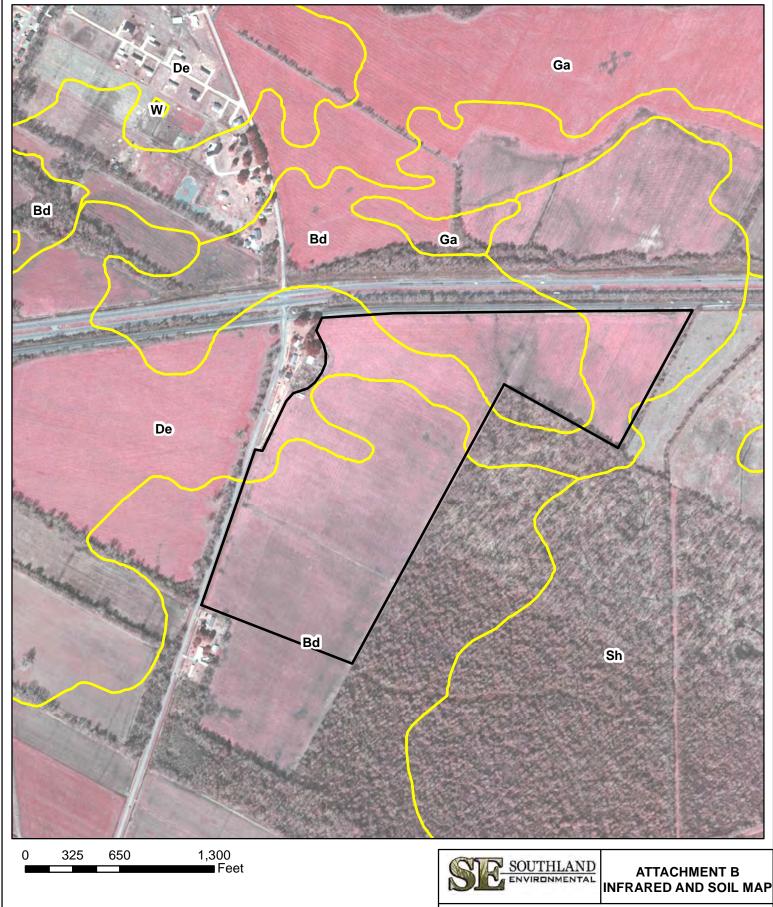


Marc Delinger

SIGNATURE OF AUTHORIZATION

ATTACHMENT B

Infrared and Soil Maps



SITE LOCATION
SOIL CLASSIFICATION BOUNDAY



WETLAND DELINEATION ONE ACADIANA PORT BARRE INDUSTRIAL PARK EAST SITE PORT BARRE, ST LANDRY PARISH

Drawn By: CRH	Date:	10/25/18	Project #	11724
Checked By: CBJ	Date:	10/25/18	Revised: 01/07	7/19

ATTACHMENT C

Wetland Data Forms

Project/Site: Port Barre Industrial	Park	City/C	ounty: Port Barre/ S	t. Landry	Sampling Date: 11-27-18
Applicant/Owner: One Acadiana				State: LA	Sampling Date: 11-27-18 Sampling Point: 5
Investigator(s): C. Hoffpauir			on, Township, Range: _		· · · · · —
, , <u> </u>	olativoly Flat			nono	Slope (%): 0-1
Subregion (LRR or MLRA): LRR-O		Lat. 600874.05	Long:	3379393.80	Datum: UTM NAD 83
Landform (hillslope, terrace, etc.): Note that the Subregion (LRR or MLRA): LRR-O Soil Map Unit Name: Baldwin silty	clay loam (Bd)	_ Lat	Long.	NWI classifi	cation: None
Are climatic / hydrologic conditions or	n the site typical for	this time of year? Y	es X No	(If no explain in F	Remarks)
Are Vegetation No , Soil No ,					
Are Vegetation No , Soil No ,					
SUMMARY OF FINDINGS –					
			ipinig point locat	iono, transcott	s, important reatures, etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No X
Wetland Hydrology Present? Remarks:	Yes	NO <u>^</u>			
Area planted in Soy Bea	uis.				
HYDROLOGY					
Wetland Hydrology Indicators:				_	ators (minimum of two required)
Primary Indicators (minimum of one					l Cracks (B6)
Surface Water (A1)	☐ Aqua		☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10)		
High Water Table (A2)		Deposits (B15) (LRF			
Saturation (A3) Water Marks (B1)	— ·	ogen Sulfide Odor (0 zed Rhizospheres a	long Living Roots (C3)	Moss Trim L	Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bu	
Drift Deposits (B3)		nt Iron Reduction in	, ,		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	U Othe	r (Explain in Remark	rs)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Ima	agery (B7)			FAC-Neutra	, ,
Water-Stained Leaves (B9)				<u> </u>	moss (D8) (LRR T, U)
Field Observations:	No X	Danth (inches)			
		Depth (inches): Depth (inches):			
		Depth (inches): Depth (inches):		l Hydrology Prese	nt? Yes No_X
(includes capillary fringe)					iit! Tes NO
Describe Recorded Data (stream ga	auge, monitoring we	ell, aerial photos, pre	vious inspections), if a	vailable:	
Remarks:					
None Observed					

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

Tree Stratum (Plot size: ±30)

Sapling/Shrub Stratum (Plot size: ±30

Herb Stratum (Plot size: ±30)

1. Glycine max 2. Poa annua 3. Lamium amplexicaule 4. Echinochloa crus-galli

1. None

1. None

– Use scientific na			Indicate:	Sampling Point: 5
)		Dominant Species?		Dominance Test worksheet:
,				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant Species Across All Strata: 3 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/I
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
			-	OBL species x 1 =
		= Total Cov		FACW species x 2 =
% of total cover:	20% of	total cover		FAC species x 3 =
±30)				FACU species x 4 =
	-			UPL species x 5 =
				Column Totals: (A) (B
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
			-	2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	ver .	Problematic Hydrophytic Vegetation¹ (Explain)
% of total cover:	20% of	total cover	:	
)	40	Yes	NI	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	30	Yes	FACU	Definitions of Four Vegetation Strata:
	20	Yes	NI	Definitions of Four Vegetation Strata.
	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
				more in diameter at breast height (DBH), regardless of height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
				Woody vine – All woody vines greater than 3.28 ft in height.
	95	= Total Cov	ver .	
0% of total cover: 47.5	20% of	total cover	19	
30)				
				Livelnombystic
	-	= Total Cov	/or	Hydrophytic Vegetation
10/ of total cover				Present? Yes No X
% of total cover:	20% 01	ioiai cover	·	_

Remarks: (If observed, list morphological adaptations below

Woody Vine Stratum (Plot size: ±30)

2.

SOIL Sampling Point: 5

		e to the dep	th needed to docu			or confir	m the absence o	f indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type ¹	Loc ²	Texture	Rema	arks
0-10	10YR 3/2	100	Color (moist)		Турс		Silt Loam	Nome	anto
10-16	10YR 3/1	95	7.5YR 4/6	5		M	Silty Clay		_
10-10	10111 3/1	_ =====================================	7.5111 4/0		- —	- 171	Only Clay		
	_			_					
				_					
				_		_			
1Type: C-C	oncentration D-De	nletion PM	=Reduced Matrix, M	S-Maska	d Sand G	raine	² l ocation: P	L=Pore Lining, M=	Matrix
			LRRs, unless othe			ianis.		or Problematic Hy	
Histosol			Polyvalue Be		•	LRR S. T.		ck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su		. , .		. —	ck (A10) (LRR S)	
	istic (A3)		Loamy Muck			R 0)			side MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)				(F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR	D T II)	Depleted Ma		E6)			ous Bright Loamy S	ioils (F20)
	ucky Mineral (A7) (L							A 153B) ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface	(TF12)
	uck (A9) (LRR P, T)		Marl (F10) (I		•		Other (E	xplain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc				2		
	ark Surface (A12)	(MI DA 450	Iron-Mangar					ors of hydrophytic	
	rairie Redox (A16) Mucky Mineral (S1)		A) Umbric Surfa					nd hydrology must s disturbed or prob	•
_	Gleyed Matrix (S4)	(LIXIX 0, 3)	Reduced Ve					s distarbed or proc	nemanc.
_	Redox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous I	Bright Loa	my Soils	(F20) (MLI	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P,								
	Layer (if observed):							
Type:									X
	ches):						Hydric Soil P	resent? Yes	No X
Remarks: F	ew Redox >	10"							
	ow Hodox >	10							

Project/Site: Port Barre Industr	rial Park	City/C	ounty: Port Barre/ S	St. Landry	Sampling Date: 11-27-18	
Applicant/Owner: One Acadian	a		,	State: LA	Sampling Date: 11-27-18 Sampling Point: 6	
Investigator(s): C. Hoffpauir			on, Township, Range:			
Landform (hillslope, terrace, etc.):					Slope (%): 0-1	
Subregion (LRR or MLRA). LRR	i-O	Lat: 600990.75	Long	. 3379533.72	Datum: UTM NAD 83	
Soil Map Unit Name: Baldwin si	ilty clay loam (Bd)	_ Lat	Long.	NWI classifi	cation. None	
Are climatic / hydrologic condition		this time of year? V	os X No	(If no explain in F	Pomarka)	
Are Vegetation No , Soil No						
Are Vegetation No , Soil No	, or Hydrology	_ significantly disturi	ded? Are Norm	nai Circumstances	present: res No	
_						
SUMMARY OF FINDINGS	– Attach site ma	p snowing sam	ipling point loca	tions, transects	s, important features, etc.	
Hydrophytic Vegetation Present		No <u>X</u>	Is the Sampled Are	а		
Hydric Soil Present?	Yes	No X	within a Wetland?		No X	
Wetland Hydrology Present?	Yes	No <u>X</u>				
Remarks:						
Area planted in Soy B	eans.					
HYDROLOGY						
Wetland Hydrology Indicators	;:			Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of	one is required; check a	all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Aqua	tic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Marl	Deposits (B15) (LRF	R U)	Drainage Pa	atterns (B10)	
Saturation (A3)	<u></u> Hydro	ogen Sulfide Odor (0	C1)	Moss Trim L	ines (B16)	
Water Marks (B1)	U Oxidi	zed Rhizospheres a	long Living Roots (C3)) 🔲 Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Prese	ence of Reduced Iro	n (C4)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	Rece	nt Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	$\overline{}$	Muck Surface (C7)		=	Position (D2)	
Iron Deposits (B5)		r (Explain in Remark	as)	Shallow Aqu	, ,	
Inundation Visible on Aerial	• • • •			FAC-Neutra	, ,	
Water-Stained Leaves (B9)				<u> </u>	moss (D8) (LRR T, U)	
Field Observations:	Vaa Na X	Death (Seekee)				
	Yes No X [
	Yes No X [nt? Yes No_X	
Saturation Present? (includes capillary fringe)	Yes No X [Depth (inches):	Wetland	d Hydrology Prese	nt? Yes No	
Describe Recorded Data (stream	n gauge, monitoring we	II, aerial photos, pre	vious inspections), if a	vailable:		
Remarks:						
None Observed						

EGETATION (Four Strata) – Use scientific		•		Sampling Point: 6		
Free Stratum (Plot size: ±30)			int Indicator s? Status	Dominance Test worksheet:		
None				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A		
2 3				Total Number of Dominant Species Across All Strata: 3 (B		
·				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A		
). ,				Prevalence Index worksheet:		
•		_		Total % Cover of: Multiply by:		
-		= Total C		OBL species x 1 =		
50% of total cover:	·			FACW species x 2 =		
apling/Shrub Stratum (Plot size: ±30		or total cov	/GI	FAC species x 3 =		
None				FACU species x 4 =		
·				UPL species x 5 =		
				Column Totals: (A) (I		
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic Vegetation		
				2 - Dominance Test is >50%		
				3 - Prevalence Index is ≤3.0 ¹		
		_ = Total C	Cover	Problematic Hydrophytic Vegetation ¹ (Explain)		
50% of total cover: _	20%	of total cov	/er:			
Herb Stratum (Plot size: ±30)				¹ Indicators of hydric soil and wetland hydrology must		
Glycine max	40	Yes	<u>NI</u>	be present, unless disturbed or problematic.		
Poa annua	40	Yes	FACU	Definitions of Four Vegetation Strata:		
Lamium amplexicaule	10	No No	_ <u>NI</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)		
	5	No	FACW	more in diameter at breast height (DBH), regardless		
Ranunculus muricatus Mazus pumilus		No No	FACU	height.		

3				Species Across All Strata: 3 (B)
4		_		Descrit of Descionat Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				, ,
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total C		OBL species x 1 =
50% of total cover:	•	 '		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: ±30)				FAC species x 3 =
1. None				FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		_ = Total C	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cove	er:	
Herb Stratum (Plot size: ±30				¹ Indicators of hydric soil and wetland hydrology must
1. Glycine max	40	Yes	NI	be present, unless disturbed or problematic.
2. Poa annua	40	Yes	FACU	Definitions of Four Vegetation Strata:
3. Lamium amplexicaule	10	No	NI	
4. Ranunculus muricatus	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Mazus pumilus	5	No	FACU	height.
6.	-			Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of olze, and wedgy plante look than olze it tail.
10				Woody vine – All woody vines greater than 3.28 ft in
11			-	height.
12	100	- 		
50		_ = Total C		
50% of total cover: <u>50</u>	20%	of total cove	er: <u>20</u>	
Woody Vine Stratum (Plot size: ±30)				
1. None				
2				
3				
4				
5				Hydrophytic
		_ = Total C	over	Vegetation Present? Yes No X
50% of total cover:	20% of total cover:		er:	Present? Yes No X
Remarks: (If observed, list morphological adaptations below	ow).			1

SOIL Sampling Point: 6

		e to the de	oth needed to docu			or confir	m the absence of i	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type ¹	Loc ²	Texture	Remark	S
0-10	10YR 4/3	100					Silt Loam		
10-16	10YR 4/3	95	7.5YR 5/6	5	С	M	Silty Clay		
				_		-			
						-			
	-			_		-			
-		_		_	_	-			
					_				
			-	_	_				
			=Reduced Matrix, M LRRs, unless other			rains.		=Pore Lining, M=Ma Problematic Hydri	
Hydric Soil Histoso		icable to al	Polyvalue B		•	IDDCT		k (A9) (LRR O)	ic Solls :
_	pipedon (A2)		Thin Dark S		. , .		. —	k (A9) (LRR O) k (A10) (LRR S)	
	istic (A3)		Loamy Mucl					Vertic (F18) (outsid	e MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		==\			s Bright Loamy Soil	s (F20)
	Bodies (A6) (LRR ucky Mineral (A7) (I		Redox Dark Depleted Da				(MLRA	153B) nt Material (TF2)	
	resence (A8) (LRR		Redox Depr					low Dark Surface (T	F12)
	uck (A9) (LRR P, T		Marl (F10) (•	-,			olain in Remarks)	,
_	d Below Dark Surfa	ice (A11)	Depleted Oc				•		
=	ark Surface (A12)	(BAL D.A. 450	Iron-Mangar					rs of hydrophytic ve	-
	rairie Redox (A16) Mucky Mineral (S1)	•	· =					d hydrology must be disturbed or probler	•
	Gleyed Matrix (S4)	(LIXIX O, 3)	Reduced Ve					disturbed of problet	natic.
	Redox (S5)		Piedmont FI						
	d Matrix (S6)		Anomalous	Bright Loa	amy Soils	(F20) (ML I	RA 149A, 153C, 15	3D)	
	ırface (S7) (LRR P,								
	Layer (if observed	1):							
Type:	ches):						Hydric Soil Pre	esent? Yes	No X
Remarks:	C1103)						Tryunc don't re	,3cm: 103	
F	ew Redox >	11"							

Project/Site: Port Barre Industr	rial Park	City/C	ounty: Port Barre/ S	t. Landry	Sampling Date: 11-27-18
Applicant/Owner: One Acadian	a			State: LA	Sampling Date: 11-27-18 Sampling Point: 7
Investigator(s): C. Hoffpauir			on, Township, Range: _		
<u> </u>	Polativoly Flat			nono	Slope (%): 0-1
Subregion (LRR or MLRA). LRR	i-O	Lat: 601140.39	Long:	3379690.48	Datum: UTM NAD 83
Soil Man Unit Name. Baldwin si	ilty clay loam (Bd)	_ Lat	Long.	NWI classific	Slope (%): UTM NAD 83 Datum: UTM NAD 83 Cation: None
Are climatic / hydrologic condition	es on the site typical for	this time of year? V	os X No	(If no explain in E	Pomarke)
Are Vegetation No , Soil No					
Are Vegetation No , Soil No					
SUMMARY OF FINDINGS	- Attach site ma	p showing sam	pling point locat	ions, transects	i, important features, etc.
Hydrophytic Vegetation Present		No <u>X</u>	Is the Sampled Area	•	
Hydric Soil Present?	Yes	No X	within a Wetland?		No X
Wetland Hydrology Present?	Yes	No X	William a Wollana		
Remarks:					
Area planted in Soy B	Beans.				
,					
HYDROLOGY					
Wetland Hydrology Indicators):			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of	one is required; check a	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aqua	tic Fauna (B13)		Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Marl	Deposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)	Hydro	ogen Sulfide Odor (0	21)	Moss Trim L	ines (B16)
Water Marks (B1)	Oxidi	zed Rhizospheres a	long Living Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Prese	ence of Reduced Iro	n (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Rece	nt Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	L Thin	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	U Other	r (Explain in Remark	s)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial	Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				Sphagnum r	moss (D8) (LRR T, U)
Field Observations:	V				
	Yes No X [
	Yes No X [
Saturation Present? (includes capillary fringe)	Yes No X [Depth (inches):	Wetland	Hydrology Preser	nt? Yes No X
Describe Recorded Data (stream	n gauge, monitoring we	II, aerial photos, pre	vious inspections), if a	vailable:	
Remarks:					
None Observed					

VEGETATION (Four Strata) – Use scientific nar	Sampling Point: 7				
T 0 (7) +20		Dominant Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: ±30 1. None	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)	

<u>Tree Stratum</u> (Plot size: ±30)	% Cover	Species'	Status	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20% 01	total cove	·	FAC species x 3 =
4 None				FACU species x 4 =
· · · · · · · · · · · · · · · · · · ·				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: ±30)	40	Yes	NI	¹ Indicators of hydric soil and wetland hydrology must
1. Glycine max	40		FACU	be present, unless disturbed or problematic.
2. Poa annua		Yes		Definitions of Four Vegetation Strata:
3. Mazus pumilus	10	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Oenothera laciniata	5	No	FACU	more in diameter at breast height (DBH), regardless of
5. Panicum dichotomiflorum	2	No	FACW	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10			· ——	Woody vine – All woody vines greater than 3.28 ft in
11			· ——	height.
12				
40.5		= Total Co		
50% of total cover: <u>48.5</u>	20% of	total cove	r: 19.4	
Woody Vine Stratum (Plot size: ±30				
1. None				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes No X
50% of total cover:	20% of	total cove	r:	100 100
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
| Depth | Matrix | Redox Features |

Depth	Matrix	·		x Featur	es			laroator 5.,	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-11	10YR 4/2	100	7.5\(\D\.5\(\O\)				Silt Loam		
11-16	10YR 4/2	95	7.5YR 5/6	5	<u>C</u>	<u>M</u>	Silt Loam		
					_				
¹Type: C=Co	ncentration, D=De	pletion, RM	=Reduced Matrix, MS	=Maske	d Sand G	rains.	² Location: PL=	Pore Lining, M=Matrix	x.
Hydric Soil I	ndicators: (Appli	cable to all	LRRs, unless other				Indicators for F	Problematic Hydric S	
Histosol	` '		Polyvalue Be					(A9) (LRR O)	
	ipedon (A2)		Thin Dark Su					(A10) (LRR S)	#LDA 450A B\
Black His	n Sulfide (A4)		Loamy Mucky Loamy Gleye			(0)		ertic (F18) (outside N Floodplain Soils (F19)	
	Layers (A5)		Depleted Mat		(1 2)			Bright Loamy Soils (I	
	Bodies (A6) (LRR I		Redox Dark S	Surface ((F6)		(MLRA 1	,	·
	cky Mineral (A7) (L				, ,		$\overline{}$	Material (TF2)	•
	esence (A8) (LRR) ck (A9) (LRR P, T)		Redox Depre	•	-8)			ow Dark Surface (TF1: lain in Remarks)	2)
	l Below Dark Surfa		Depleted Och	,) (MLRA 1	51)	U Other (Expi	alli ili Remarks)	
_	rk Surface (A12)	,	Iron-Mangane	,		-	T) ³ Indicators	s of hydrophytic veget	tation and
	airie Redox (A16)		· —					hydrology must be pr	
	ucky Mineral (S1) ((LRR O, S)	Delta Ochric					listurbed or problemat	tic.
_	leyed Matrix (S4) edox (S5)		Reduced Ver Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153	BD)	
	face (S7) (LRR P,								
	ayer (if observed):							
Type:									Y
	:hes):						Hydric Soil Pres	sent? Yes	No X
Remarks:	ew Redox >	11"							

Project/Site: Port Barre Industrial Par	k	City/C	ounty: Port Barı	re/ St. Lan	dry	Sampling Date	_: 11-27-18
Applicant/Owner: One Acadiana				State	E LA	Sampling Poin	t: 8
Investigator(s): C. Hoffpauir		Section					
Landform (hillslope, terrace, etc.). Small	Depression	l ocal	relief (concave, c	convex none	_{e)} . none	Slo	one (%): 0
Subregion (LRR or MLRA): LRR-O		Lat: 601427.63	1	1 ong: 3379	771.58		natum: UTM NAD 83
Landform (hillslope, terrace, etc.): Small Subregion (LRR or MLRA): LRR-O Soil Map Unit Name: Baldwin silty clay	loam (Bd)	Lat	-	_ong	NIMI classific	ation: None	atum
Are climatic / hydrologic conditions on the	oito tunical for	this time of year? V	oo X No	(If no	ovoloin in D	omorko)	
							ζ No
Are Vegetation No , Soil No , or H Are Vegetation No , Soil No , or H	yarology No	significantly distur	bed? Are				- NO
						rs in Remarks.)	factures etc
SUMMARY OF FINDINGS – Att		·	ipiing point it	——————————————————————————————————————	transects	, important	leatures, etc.
Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled	l Area			
Hydric Soil Present? Wetland Hydrology Present?	Yes X	No	within a Wetlan	nd?	Yes X	No	
Wetland Hydrology Present? Remarks:	Yes _^	No					
Area planted in Soy Beans	•						
HYDROLOGY							
Wetland Hydrology Indicators:				Sec	ondary Indica	tors (minimum o	of two required)
Primary Indicators (minimum of one is re	equired; check	all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)	Aqua	atic Fauna (B13)			Sparsely Veg	etated Concave	e Surface (B8)
High Water Table (A2)	∐ Marl	Deposits (B15) (LRF	R U)		Drainage Pat		
Saturation (A3)	Hydr	rogen Sulfide Odor (C	C1)		Moss Trim Li		-
Water Marks (B1)		lized Rhizospheres a				Water Table (C2	2)
Sediment Deposits (B2) Drift Deposits (B3)		ence of Reduced Ironent Iron Reduction in			Crayfish Burr	ows (C8) sible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	7 med 66m3 (66)		Geomorphic		magery (Co)
Iron Deposits (B5)	$\overline{}$	er (Explain in Remark	s)		Shallow Aqui		
Inundation Visible on Aerial Imager	y (B7)			✓	FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)				<u> </u>	Sphagnum m	oss (D8) (LRR	T, U)
Field Observations:		0.2					
		Depth (inches): 0-2					
		Depth (inches):	<u></u>			X	
Saturation Present? Yes X (includes capillary fringe)	No	Depth (inches): 0-16	, We	tland Hydro	ology Presen	t? Yes <u>^ _</u>	No
Describe Recorded Data (stream gauge	, monitoring we	ell, aerial photos, pre	vious inspections	;), if available	e:		
Remarks:							

VEGETATION (Four Strata) – Use	scientific	names o	of plants.
1 - O - 1 / 1 1 O 1 1 1	i oui otiutu	,	0010111110	mannoo c	n piaito.

/EGETATION (Four Strata) – Use s	cientific names of pl	ants.		Sampling Point: 8
•		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: ±30) 1. None	% Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
o		= Total Cov	/er	OBL species x 1 =
50% of total	cover: 20% of			FACW species x 2 =
)			FAC species x 3 =
1. None				FACU species x 4 =
2.				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
	cover: 20% of	total cover	:	
Herb Stratum (Plot size: ±30)				¹ Indicators of hydric soil and wetland hydrology must
1. Echinochloa crus-galli	40	Yes	FACW	be present, unless disturbed or problematic.
2. Cyperus iria	40	Yes	FACW	Definitions of Four Vegetation Strata:
3. Cyperus esculentus	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Glycine max	5	No	NI	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12				Holght.
		= Total Cov	/er	
50% of total	cover: 47.5 20% of			
Woody Vine Stratum (Plot size: ±30)			
2				
3		-		
4		-		
5		= Total Cov		Hydrophytic Vegetation
50% of total				Present? Yes X No
		total cover	·	
50% of total Remarks: (If observed, list morphological ad	cover: 20% of aptations below).	total cover	:	Present? Yes _^ No

SOIL Sampling Point: 8

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the	indicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			x Feature	S 1					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-9	10YR 4/1		7.5YR 4/6	5	С	M	Silt Loam	Saturate		
9-16	10YR 4/1	80	7.5YR 4/6	20	С	M, PL	Silty Clay	Saturate	d	
				-	•	•				_
				-	· -	-				
						·				
¹Type: C=C	oncentration D=De	oletion RM=	Reduced Matrix, MS	S=Masked	d Sand G	rains	² l ocation:	PI =Pore I	ining, M=Matri	
			RRs, unless other						matic Hydric	
Histosol			Polyvalue Bel			LRR S. T. U		Muck (A9) (L	-	
	pipedon (A2)		Thin Dark Su					Muck (A10)		
_	stic (A3)		Loamy Mucky							MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		<u></u> ☐ Piedm	ont Floodpla	ain Soils (F19)	(LRR P, S, T)
	d Layers (A5)		✓ Depleted Mat					-	Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark S				`	RA 153B)		
	ucky Mineral (A7) (L		Depleted Dar					arent Mater		
	resence (A8) (LRR I	J)	Redox Depre	•	8)				Surface (TF1	2)
	uck (A9) (LRR P, T) d Below Dark Surfa	20 (411)	Marl (F10) (L		(MI DA 1	E4\	U Other	(Explain in I	Remarks)	
	ark Surface (A12)	CE (ATT)	Depleted Och				T) ³ India	rators of hyd	drophytic vege	tation and
- 	rairie Redox (A16) (MLRA 150A	=			•			ogy must be pi	
	flucky Mineral (S1)		Delta Ochric						ed or problema	
	Gleyed Matrix (S4)	, ,	Reduced Veri						·	
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19	(MLRA 14	9A)			
	Matrix (S6)		Anomalous B	right Loa	my Soils	(F20) (MLR	A 149A, 153C	i, 153D)		
	rface (S7) (LRR P,						_			
Restrictive	Layer (if observed)):								
Type:									V	
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:										

Project/Site: Port Barre Industri	ial Park	City/C	ounty: Port Barre/ St	t. Landry	Sampling Date: 11-27-18
Applicant/Owner: One Acadiana	 a		,	State: LA	Sampling Date: 11-27-18 Sampling Point: 9
Investigator(s): C. Hoffpauir			on, Township, Range: <u>'</u>		· ' '
Landform (hillslope, terrace, etc.):					Slope (%): 0-1
Subregion (LRR or MLRA). LRR-	-O	Lat. 601650.10	Long:	3379684.51	Datum: UTM NAD 83
Soil Map Unit Name: Dundee sil	it loam (De)	_ Lat	Long.	NWI classific	cation: None
Are climatic / hydrologic conditions		this time of vear? Y	es X No	(If no. explain in F	Remarks.)
Are Vegetation No , Soil No					
Are Vegetation No , Soil No					
SUMMARY OF FINDINGS					
			g p	,	,,,
Hydrophytic Vegetation Present?		No X	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No X	within a Wetland?	Yes	No X
Remarks:	165	110			
Area planted in Soy Bo					
HYDROLOGY					
Wetland Hydrology Indicators:				_	ators (minimum of two required)
Primary Indicators (minimum of o					Cracks (B6)
Surface Water (A1) High Water Table (A2)		tic Fauna (B13) Deposits (B15) (LRF	D 11\		getated Concave Surface (B8)
Saturation (A3)		ogen Sulfide Odor (0		Drainage Pa	
Water Marks (B1)		•	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iron		Crayfish Bur	
Drift Deposits (B3)	Rece	nt Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		r (Explain in Remark	s)	Shallow Aqu	, ,
Inundation Visible on Aerial	Imagery (B7)			FAC-Neutral	, ,
Water-Stained Leaves (B9)					moss (D8) (LRR T, U)
Field Observations:	res No X [Donth (inches)			
	res No X [
	res No X [Hydrology Presei	nt? Yes No_X
(includes capillary fringe)					it: res No
Describe Recorded Data (stream	n gauge, monitoring we	ll, aerial photos, pre	vious inspections), if av	/ailable:	
Remarks:					
None Observed					
					,

		ames of pl				Sampling Point:	
ree Stratum (Plot size: ±30	١		Dominant Species?		Dominance Test worksh		
None					Number of Dominant Spec		(4)
					That Are OBL, FACW, or I	-AC: <u>-</u>	(A)
					Total Number of Dominant	t _	
					Species Across All Strata:	2	(B)
					Percent of Dominant Spec	ies	
					That Are OBL, FACW, or F		(A/E
					Prevalence Index worksl		
					Total % Cover of:		
			= Total Cov		OBL species	x 1 =	
	50% of total cover:				FACW species	x 2 =	
apling/Shrub Stratum (Plot siz		2070 01	10101 00101		FAC species	x 3 =	
None					FACU species		
					UPL species		
•					Column Totals:		
·					Column rotals.	(^)	(D
					Prevalence Index =	B/A =	
·					Hydrophytic Vegetation		
					1 - Rapid Test for Hyd		ation
					2 - Dominance Test is		ation i
					I —		
			= Total Cov	or.	3 - Prevalence Index i		<i>(</i> -)
	50% of total cover:				Problematic Hydrophy	tic Vegetation	(Explain)
+30	50% of total cover:	20% 01	total cover	·			
lerb Stratum (Plot size: ±30 Glycine max)	30	Yes	NII	¹ Indicators of hydric soil ar		
Glycine max		.50					
				NI	be present, unless disturbe	·	ic.
Poa annua		50	Yes	FACU	be present, unless disturbed Definitions of Four Vege	·	ic.
Poa annua Mazus pumilus					Definitions of Four Vege	tation Strata:	
Poa annua Mazus pumilus Rottboellia cochinchinensis		50	Yes	FACU	•	tation Strata:	n. (7.6 cm) (
Poa annua Mazus pumilus Rottboellia cochinchinensis		50	Yes No	FACU FACU	Definitions of Four Vege Tree – Woody plants, excl	tation Strata:	n. (7.6 cm) (
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height.	tation Strata: uding vines, 3 ir height (DBH), r	n. (7.6 cm) (regardless o
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p	tation Strata: uding vines, 3 ir height (DBH), r	n. (7.6 cm) oregardless o
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p than 3 in. DBH and greate	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1	n. (7.6 cm) oregardless of the control of the contr
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants and greate thereb – All herbaceous (not be seen to be seen the same plants).	tation Strata: uding vines, 3 ir height (DBH), r blants, excluding r than 3.28 ft (1	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p than 3 in. DBH and greate	tation Strata: uding vines, 3 ir height (DBH), r blants, excluding r than 3.28 ft (1	n. (7.6 cm) oregardless or growines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants and greate thereb – All herbaceous (not be seen to be seen the same plants).	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants)	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0.		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0.		50 10 5 5	Yes No No No	FACU FACU NI	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0.		50 10 5 5	Yes No No No The second of th	FACU FACU NI Ver	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2.	50% of total cover: 50	50 10 5 5	Yes No No No The second of th	FACU FACU NI Ver	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. Voody Vine Stratum (Plot size:	50% of total cover: 50 ±30)	50 10 5 5 5	No No No Total Cover total cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. None (Plot size: None	50% of total cover: 50 ±30	50 10 5 5 5	No No No Total Cover total cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. Voody Vine Stratum (Plot size: None	50% of total cover: 50 ±30	50 10 5 5 5 100 20% of	No No No Total Cover	FACU FACU NI Order 20	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. Noody Vine Stratum (Plot size:	50% of total cover: 50 ±30	50 10 5 5 5	Yes No No No Total Cover total cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or g vines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. None Voody Vine Stratum (Plot size:	50% of total cover: 50 ±30	50 10 5 5 5	Yes No No No Total Cover Total cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excluding more in diameter at breast height. Sapling/Shrub – Woody plants in DBH and greate Herb – All herbaceous (not of size, and woody plants) Woody vine – All woody vine	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0	50% of total cover: 50 ±30	50 10 5 5 5	Yes No No No Total Cover Total cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p than 3 in. DBH and greate Herb – All herbaceous (no of size, and woody plants Woody vine – All woody v height. Hydrophytic	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) oregardless or givines, less m) tall.
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0. 1. 2. Voody Vine Stratum (Plot size:	50% of total cover: 50 ±30	50 10 5 5 5	Yes No No No Total Cover Total Cover Total Cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p than 3 in. DBH and greate Herb – All herbaceous (no of size, and woody plants) Woody vine – All woody v height. Hydrophytic Vegetation	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 pn-woody) plants less than 3.28 ft rines greater tha	n. (7.6 cm) of regardless of g vines, less m) tall. s, regardles: t tall. an 3.28 ft in
Poa annua Mazus pumilus Rottboellia cochinchinensis Lamium amplexicaule 0	50% of total cover: 50 ±30	50 10 5 5 5	Yes No No No Total Cover Total Cover Total Cover	FACU FACU NI Ver 20	Definitions of Four Vege Tree – Woody plants, excl more in diameter at breast height. Sapling/Shrub – Woody p than 3 in. DBH and greate Herb – All herbaceous (no of size, and woody plants) Woody vine – All woody v height. Hydrophytic Vegetation	tation Strata: uding vines, 3 ir height (DBH), r plants, excluding r than 3.28 ft (1 n-woody) plants less than 3.28 ft	n. (7.6 cm) of regardless of g vines, less m) tall. s, regardles t tall.

SOIL Sampling Point: 9

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirn	n the absence of indi	cators.)	
Depth (in a land)	Matrix	0/		x Feature		1 - 2	Taratana	D	
(inches) 0-10	Color (moist) 10YR 3/2	100	Color (moist)	<u>%</u>	Type'	Loc ²	Texture Silt Loam	Remarks	<u> </u>
			5) (D. 5 (o.						
10-16	10YR 4/1	95	5YR 5/6	5	C	M	Silty Clay		
						· ——			_
	_								_
1						·	2		
			=Reduced Matrix, Mi			ains.	² Location: PL=Po		
		able to all			•	DDCTI		-	c soils .
Histosol	ipedon (A2)		Polyvalue Be				J)		
Black His			Loamy Muck						e MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			,			9) (LRR P, S, T)
	Layers (A5)		Depleted Ma				L Anomalous B	ight Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark	`	,		(MLRA 153		
	cky Mineral (A7) (L esence (A8) (LRR (Depleted Da Redox Depre				Red Parent M	aterial (TF2) Dark Surface (TI	=12)
	ck (A9) (LRR P, T)	,,	Marl (F10) (L	•	(0)		Other (Explain	,	12)
_	Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)	<u> </u>	iii rtoinano,	
Thick Da	rk Surface (A12)		Iron-Mangan				T) ³ Indicators o	f hydrophytic veg	getation and
	airie Redox (A16) (· —				•	drology must be	
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					urbed or problen	natic.
	leyed Matrix (S4) edox (S5)		Reduced Ve Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153D)		
	face (S7) (LRR P,	S, T, U)		3	, , , , , , ,	-/(, , , , , , , ,		
Restrictive L	ayer (if observed)	:							
Type:									.,
Depth (inc	ches):						Hydric Soil Prese	it? Yes	No X
Remarks:	ew Redox > 1	0"							
Г	ew Redox >	U							

Project/Site: Port Barre Industrial Park		City/C	ountv: Port B	arre/ St. Lar	ndry	Sampling Dat	_{e:} 11-27-18
Applicant/Owner: One Acadiana				Stat	e: LA	Sampling Poir	nt: 10
Investigator(s): C. Hoffpauir		Section Section				pg	
Landform (hillslope, terrace, etc.): Small De Subregion (LRR or MLRA): LRR-O Soil Map Unit Name: Baldwin silty clay loa	pression	l ocal	relief (concave	convex non	_{le):} none	S	lone (%): 0
Subregion (LRR or MLRA). LRR-O		601384.11	Tollot (ootloavo	Long. 3379	9688.11		Datum: UTM NAD 83
Soil Man Unit Name: Baldwin silty clay loa	 am (Bd)	at		_ Long	NIML classifier	otion: None	Jatum.
Are climatic / hydrologic conditions on the site	typical for this	time of year? V	os X No	(If n	o ovalaja ja D	omarke \	
							X No
Are Vegetation No , Soil No , or Hydro	. No	gnincantiy disturt	bear An				
					ain any answer		
SUMMARY OF FINDINGS – Attack			ipiing point	locations	, transects	, important	reatures, etc.
Hydrophytic Vegetation Present? Ye	es X No	·	Is the Sample	ed Area			
Hydric Soil Present? Your Wetland Hydrology Present? You	es X No	'	within a Wetl	land?	Yes X	No	
Wetland Hydrology Present? You Remarks:	es ^ No	<u> </u>					
Area planted in Soy Beans.							
HYDROLOGY							
Wetland Hydrology Indicators:				Se	condary Indica	tors (minimum	of two required)
Primary Indicators (minimum of one is requi	red; check all th	nat apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)	Aquatic F	auna (B13)			Sparsely Veg	etated Concav	ve Surface (B8)
High Water Table (A2)	Marl Dep	osits (B15) (LRF	R U)	片	Drainage Pat		
Saturation (A3)	Hydroger	Sulfide Odor (C	C1)		Moss Trim Li		
Water Marks (B1)		Rhizospheres al		ots (C3)		Nater Table (C	;2)
Sediment Deposits (B2) Drift Deposits (B3)		e of Reduced Iron on Reduction in		s) \Box	Crayfish Burr	sible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)		k Surface (C7)	Tilled Collo (CC) 	Geomorphic		imagery (66)
Iron Deposits (B5)	$\overline{}$	kplain in Remark	s)		Shallow Aqui		
Inundation Visible on Aerial Imagery (B	7)			✓	FAC-Neutral	Test (D5)	
Water-Stained Leaves (B9)					Sphagnum m	oss (D8) (LRR	t T, U)
Field Observations:		0.2					
		th (inches): 0-2					
	No X Dept					X	
Saturation Present? Yes X (includes capillary fringe)	No Dept	th (inches): 0-16	<u>'</u> V	Wetland Hydi	rology Presen	t? Yes <u>^\</u>	No
Describe Recorded Data (stream gauge, mo	onitoring well, a	erial photos, pre	vious inspectio	ns), if availab	le:		
Remarks:							

VEGETATION	(Four Strata) – Use	scientific	names o	of plants.

/EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: 10
		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: ±30) 1. None		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 2 (B)
4.				、 /
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				That Are OBE, I ACW, OF I AC (A/B)
7.				Prevalence Index worksheet:
8.		-		Total % Cover of: Multiply by:
o		= Total Cov	/er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: ±30)	2070 01	10101 00101	·	FAC species x 3 =
, None				FACU species x 4 =
1. Note 2				UPL species x 5 =
				Column Totals: (A) (B)
3				Prevalence Index = B/A =
5		-		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: ±30) 1. Echinochloa crus-galli	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Cyperus iria	40	Yes	FACW	Definitions of Four Vegetation Strata:
3. Glycine max	10	No	FAC	Definitions of Four Vegetation Strata.
· -				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than o m. bbr and greater than 6.25 K (1 m) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11			-	height.
12	0=			
77.5		= Total Cov		
50% of total cover: $\frac{47.5}{100}$	20% of	total cover	:	
Woody Vine Stratum (Plot size: ±30) 1. None				
2				
3				
4				
5				Hydrophytic
50% of total cover:		= Total Cover		Vegetation Yes X No
Remarks: (If observed, list morphological adaptations bel		total covel		
Remarks. (II observed, list morphological adaptations bel	iow).			

SOIL Sampling Point: 10

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the	indicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 4/1	95	7.5YR 4/6	5	<u>C</u>	М	Silt Loam	Saturate	d	
10-16	10YR 4/1	85	7.5YR 4/6	15	С	M, PL	Silty Clay	Saturate	d	
-										
¹Type: C=C	oncentration, D=De	nletion RM=l	Reduced Matrix MS	S=Masker	d Sand G	rains	² l ocation:	PI =Pore I	ining, M=Matri	x
	Indicators: (Applie					idiiio.			matic Hydric	
☐ Histosol			Polyvalue Be		•	I RR S. T. U		Muck (A9) (L	-	
	oipedon (A2)		Thin Dark Su					Muck (A10) (
	stic (A3)		Loamy Mucky							/ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,				(LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)			L Anoma	alous Bright	Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark					RA 153B)		
	ıcky Mineral (A7) (L		Depleted Dar					arent Mater		
	resence (A8) (LRR I		Redox Depre	•	⁷ 8)				Surface (TF1	2)
	uck (A9) (LRR P, T)		☐ Marl (F10) (L		(MI DA 4	E4\	L Other	(Explain in I	Remarks)	
	d Below Dark Surfac ark Surface (A12)	ce (ATT)	Depleted Och				T) ³ India	catore of by	drophytic veget	ration and
_	rairie Redox (A16) (ΜΙ R Δ 150Δ'							ogy must be pr	
	/lucky Mineral (S1)		Delta Ochric					-	ed or problema	
	Gleyed Matrix (S4)	,	Reduced Ver					000 0.010.00	p	
	Redox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C	, 153D)		
Dark Su	rface (S7) (LRR P,	S, T, U)								
Restrictive	Layer (if observed)):								
Type:			<u></u>							
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Port Barre Industrial Park	Citv/Co	ounty: Port Barre/ St.	Landry	Sampling Date: 11-27-18
Applicant/Owner: One Acadiana		State: LA	Sampling Point: 11	
Investigator(s): C. Hoffpauir	n. Township, Range: 4	-6S-5E		
Landform (hillslope, terrace, etc.): Relatively Flat	Sectio	relief (concave, convex.	none): none	Slope (%): 0-1
Subregion (LRR or MLRA). LRR-O	Lat. 601087.69	Long: 3	3379230.26	Datum: UTM NAD 83
Landform (hillslope, terrace, etc.): Relatively Flat Subregion (LRR or MLRA): LRR-O Soil Map Unit Name: Baldwin silty clay loam (B	d)	20119	NIWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical	al for this time of year? Vo	as X No	(If no explain in F	Remarks)
Are Vegetation No , Soil No , or Hydrology				
Are Vegetation No , Soil No , or Hydrology _			explain any answe	
SUMMARY OF FINDINGS – Attach site				
		7 37		
Hydrophytic Vegetation Present? Yes	No X	Is the Sampled Area		v
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X	within a Wetland?	Yes	No X
Remarks:				
Area planted in Soy Beans.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; ch				Cracks (B6)
	Aquatic Fauna (B13)			egetated Concave Surface (B8)
	Marl Deposits (B15) (LRR Hydrogen Sulfide Odor (C		Drainage Pa	
	Oxidized Rhizospheres al			Water Table (C2)
	Presence of Reduced Iron		Crayfish Bur	i i
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation V	/isible on Aerial Imagery (C9)
	Thin Muck Surface (C7)			Position (D2)
	Other (Explain in Remarks	S)	Shallow Aqu	` '
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)				moss (D8) (LRR T, U)
Field Observations:			<u> </u>	1000 (20) (2.111 1, 0)
	Depth (inches):			
Water Table Present? Yes No X	Depth (inches):			
Saturation Present? Yes No X	Depth (inches):	Wetland H	Hydrology Prese	nt? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring)	ng well, aerial photos, prev	/ious inspections), if ava	ailable:	
		, ,,		
Remarks:				
None Observed				

VEGETATION	(Four Strata) -	عوا ا	scientific	names	of plants
VEGETATION	iroui Siiaiai-	- บอะ	SCIETILITIC	Hallies	UI PIAITIS

Percent of Dominant Species That Are OBL, FACW, or FAC: O		Absolute	Domina	ant Indicator	Dominance Test worksheet:
Total Number of Dominant Species Across All Strata: 2		% Cover	Specie	s? Status	Number of Dominant Species
Percent of Dominant Species That Are OBL, FACW, or FAC; 0 Prevalence Index worksheet: That Are OBL, FACW, or FAC; 0 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species	. None				That Are OBL, FACW, or FAC: 0 (A)
Species Across Al Strata: 2 Percent of Dominant Species That Are OBL, FACW, or FAC: 0 Prevalence Index workshee: Total % Cover of: Multiply by: OBL species x 1 =					Total Number of Dominant
That Are OBL_FACKU, or FACL: 0 Stepeies x1 =					Species Across All Strata: 2 (B)
That Are OBL, FACW, or FAC: 0					Persont of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species					
Treatment Trea					. ,
Total Cover S0% of total cover: 20% of total cover: FACW species x 1 = FACW species x 3 = FACU species x 3 = FACU species x 4 = FACW spe					
Solid Cover					
FAC species					
FAC species	50% of total cover:	20% of	total cov	ver:	
FACU species					FAC species x 3 =
UPL species	None				FACU species x 4 =
Column Totals:					UPL species x 5 =
Prevalence Index = B/A =					Column Totals: (A) (B
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0¹ Problematic Hydrophytic Vegetation¹ (Explain Silvine max 50 Yes NI Silvine max 50 Yes FACU Poa annua 10 No FACU Tree - Woody plants, excluding vines, 3 in. (7.6 of more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 height. Woody vine - All woody vines greater than 3.28 height. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation (Explain Sex Solving) 3 - Prevalence Index is \$5.0% 3 - Prevalence Index is \$5.0% 1 - Problematic Hydrophytic Vegetation¹ (Explain the problematic Hydrophytic Vegetation Sex Index Sex I					
= Total Cover					Prevalence Index = B/A =
2 - Dominance Test is >50% 2 - Total Cover 50% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 3 - Prevalence Index is ≤3.0° Problematic Hydrophytic Vegetation¹ (Explain Problematic Hydrophytic Vegetation² (Explain Hydrophytic Vegetation² (Explain Hydrophytic Vegetation² (Explain Hydrophytic Vegetati					Hydrophytic Vegetation Indicators:
Solventer Sol					1 - Rapid Test for Hydrophytic Vegetation
= Total Cover 20% of total cover: 20% of total cover: 20% of total cover: 30% of total cover: 20% of total cover: 30% of total					2 - Dominance Test is >50%
Solid total cover: 20% of total cover: 20% of total cover: 20% of total cover: 30% of total cover: 20% of total cover: 30% of total cover:	·				3 - Prevalence Index is ≤3.0 ¹
Serb Stratum (Plot size: ±30 Significance Stratum (Plot size: ±30 Significance Signifi					Problematic Hydrophytic Vegetation ¹ (Explain)
Glycine max Mazus pumilus 20 Yes FACU Definitions of Four Vegetation Strata: Poa annua 10 No FACU Tree - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub - Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Woody vine - All woody vines greater than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 height. Woody vine - All woody vines greater than 3.28 height. Woody vines Stratum (Plot size: ±30		20% of	total cov	/er:	
Mazus pumilius Poa annua 10 No FACU Tree – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Woody Vine Stratum (Plot size: ±30) None Bo = Total Cover 20% of total cover: 16 Hydrophytic Vegetation Hydrophytic Vegetation Tree – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 or more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody vines grader than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft (1 m) tall. Woody vine – All woody vines grader than 3.28 ft (1 m) tall. Herb – All woody vines grader than 3.28 ft (1 m) tall. Herb – All voody vines grader than 3.28 ft (1 m) tall. Herb – All voody vine – All woody vines grader than 3.28 ft (1 m) tall.					¹ Indicators of hydric soil and wetland hydrology must
Tree – Woody plants, excluding vines, 3 in. (7.6 of more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 of more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Woody Vine Stratum (Plot size: ±30) None		50	Yes	<u>NI</u>	be present, unless disturbed or problematic.
Tree – Woody plants, excluding vines, 3 in. (7.6 cm ore in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Woody Vine Stratum (Plot size: ±30		20	Yes	<u>FACU</u>	Definitions of Four Vegetation Strata:
more in diameter at breast height (DBH), regardle height. Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Woody Vine Stratum (Plot size: ±30) None Solution – Total Cover 16 Hydrophytic Vegetation Fresent? Yes No X No X Hydrophytic Vegetation Yes No X No X	B. Poa annua	10	No	FACU	Tree – Woody plants excluding vines 3 in (7.6 cm) (
Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Solvent Solvent (Plot size: ±30	l				more in diameter at breast height (DBH), regardless of
Sapling/Shrub — Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody vine — All woody vines greater than 3.28 height. Solve of total cover: 40 20% of total cover: 16 Voody Vine Stratum (Plot size: ±30) None	i				height.
than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. Solve of total cover: 40 20% of total cover: 16 20% of total cover:	i				Sapling/Shrub – Woody plants, excluding vines, less
Herb – All herbaceous (non-woody) plants, regar of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 height. 80 = Total Cover 50% of total cover: 40 20% of total cover: 16 Voody Vine Stratum (Plot size: ±30) None = Total Cover 50% of total cover: 20% of total cover: 40 Vegetation Present? Yes No X					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1.					Harb – All herbaceous (non-woody) plants regardles
1					of size, and woody plants less than 3.28 ft tall.
1	0.				
2					, ,
80					noight.
50% of total cover: 40 20% of total cover: 16 Voody Vine Stratum (Plot size: ±30)	<u> </u>	00	- Total C	Cover	
Voody Vine Stratum (Plot size: ±30	50% of total cover: 40				
None	· · · · · · · · · · · · · · · · · · ·	20 /6 01	total cov	/ei. <u></u>	
2.	None				
Hydrophytic Vegetation Present? Yes No X					
Hydrophytic Hydrophytic Yes No X					
Hydrophytic Vegetation Present? Yes No X					
= Total Cover					
50% of total cover: 20% of total cover: Present? Yes No X	i				
50% of total cover 20% of total cover			= Total C	Cover	Vegetation Present? Ves No X
Remarks: (If observed, list morphological adaptations below).	50% of total cover:	20% of	total cov	/er:	resent: resno
	Remarks: (If observed, list morphological adaptations bel	ow).			1

SOIL Sampling Point: 11

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirm	m the absence of ind	icators.)	
Depth	Matrix			x Feature	es	. 2			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	8
0-9	10YR 4/2	100					Silt Loam		
9-16	10YR 4/1	95	5YR 4/6	5	С	М	Silty Clay		
									_
				-					
l 					-				
				_			·		
¹Type: C=C	oncentration, D=De	nletion RM-	Reduced Matrix MS	S-Masko	d Sand G	raine	2l ocation: Pl –P	ore Lining, M=Ma	triv
	Indicators: (Appli					iaiiis.	Indicators for Pr		
☐ Histosol			Polyvalue Be		•	I RR S. T. I		-	
	oipedon (A2)		Thin Dark Su					A10) (LRR S)	
_	stic (A3)		Loamy Muck					tic (F18) (outside	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye			·		odplain Soils (F1	
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anomalous E	Bright Loamy Soils	s (F20)
I = '	Bodies (A6) (LRR I		Redox Dark				(MLRA 153	•	
	ucky Mineral (A7) (L		Depleted Dai					Material (TF2)	
	esence (A8) (LRR		Redox Depre	,	- 8)		— '	Dark Surface (TF	F12)
	uck (A9) (LRR P, T)		Marl (F10) (L		(MI DA 4	(54)	U Other (Expla	in in Remarks)	
_	d Below Dark Surfa ark Surface (A12)	ce (ATT)	Depleted Ocl	` '	-	-	T) ³ Indicators	of hydrophytic veg	rotation and
1 =	rairie Redox (A16) (ΜΙ ΒΔ 150Δ						ydrology must be	
	/lucky Mineral (S1)		Delta Ochric					turbed or problem	
	Gleyed Matrix (S4)	(=:::: 0, 0,	Reduced Ver						
	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P,	S, T, U)							
Restrictive	Layer (if observed)):							
Type:									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No X
Remarks: _									
F	ew Redox > 9	9"							

ATTACHMENT D

Site Photographs



Photograph1 Sample Plot 5



Photograph 2 General View of Plot 5



Photograph 3 Sample Plot 6



Photograph 4
General View of Plot 6



Photograph 5 Sample Plot 7



Photograph 6 General View of Plot 7



Photograph 7 Sample Plot 8



Photograph 8 General View of Plot 8



Photograph 9 Sample Plot 9



Photograph 10 General View of Plot 9



Photograph 11 Sample Plot 10



Photograph 12 General View of Plot 10



Photograph 13 Sample Plot 11



Photograph 14 General View of Plot 11