

Exhibit EE. Breaux Bridge I-10 Site Wetlands Delineation Report







February 21, 2023

Mr. Emile Lege One Acadiana 804 East St. Mary Street Lafayette, LA 70503

Breaux Bridge I-10 Site Wetlands Delineation Report

RE: Breaux Bridge I-10 Site - Wetland Delineation Executive Summary CSRS Project No 214002

Dear Mr. Lege,

In part of the Louisiana Economic Development (LED) Certified Sites Program a wetlands delineation was completed for the Breaux Bridge I-10 Site in St. Martin Parish. On 7 June 2022, a wetland delineation was completed in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and Regional Supplements and identified approximately 3.04 acres of forested wetlands, 6.4 acres of emergent wetlands, and 0.94 acres of other waters within the site boundary. The findings of this report are considered preliminary and have not been reviewed or approved by the USACE. A Jurisdictional Determination (JD) through the USACE will be required to determine if the identified wetlands and waters are subject to Section 404 and/or 10 of the Clean Water Act.



Thank you for the opportunity to assist you in this project. Should you have any questions or require additional information, feel free to contact me.

Respectfully,

Elliott Boudreaux Project Manager

WETLAND DELINEATION REPORT: BREAUX BRIDGE I-10 SITE

LOCATED IN

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PREPARED FOR ONE ACADIANA

JULY 2022



Engineers • Surveyors Environmental Consultants

Table of Contents

1.0	Introduction	1
2.0	Methodology	1
2.1	Vegetation	1
2.2	Hydrology	2
2.3	Soils	2
3.0	Results and Discussion	3
3.1	Site Description	3
3.2	Vegetation	3
3.3	Hydrology	4
3.4	Soils	4
4.0	Findings & Conclusions	5
5.0	References	8
FIG	URE 1 – VICINITY MAP	T
FIG	URE 2 – SOIL SURVEY MAP	
FIG	URE 3 – LIDAR MAP.	. III
FIG	URE 4 – SHEET INDEX MAP	.IV
FIG	URE 5 - WETLAND DETAIL MAP	V
FIG	URE 6 – FLAGGING/INFRARED MAP	.VI
APF	PENDIX A – DATA FORMS & PHOTOGRAPHS	A

1.0 Introduction

C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) conducted a field wetland delineation on June 7th, 2022, within the Breaux Bridge I-10 Site located in St. Martin Parish, Louisiana. The delineation was limited to the proposed area of interest which consists of approximately 44 acres. For clarity throughout this report, the proposed Breaux Bridge I-10 Site will be referred to as the "Site". Enclosed are topographic and aerial maps illustrating the approximate layout of the Site (**Figures 1-6**). The proposed Site is located approximately 1.8 miles west and northward of Breaux Bridge, Louisiana, adjacent to US Interstate-10.

2.0 Methodology

Fenstermaker conducted the delineation in accordance with the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0, November 2010). The purpose of the wetland delineation was to determine the presence/absence of wetlands using the three technical criteria: vegetation, hydrology, and soils. It is necessary that all three criteria be present in order to be a jurisdictional wetland. The absence of any one of these criteria could exclude an area from being a wetland under the jurisdiction of the Corps of Engineers.

Fenstermaker established the wetland delineation baseline by utilizing the southwestern property boundary. This property boundary runs generally parallel with the major watercourse in the area, Bayou Teche, located to the west and south of the Site (**Figure 1**). The area is generally flat but drops off rapidly near Bayou Teche. Per the COE Manual, three transects were established based on the total acreage and length of the established baseline. Twenty-one data points (plots) were recorded along the three transects. Plot locations were based on changes in vegetation and/or hydrology.

2.1 Vegetation

In order for the vegetation to be considered hydrophytic (wet), the prevalent vegetation must consist of macrophytes that are typically adapted to areas having hydrologic and soil conditions unique to wetlands. By definition, hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions. Macrophytes are any plant material that can be seen without the aid of magnification.

As part of the vegetation criteria, species dominance was evaluated using the "50/20 rule" which ranks plant species that immediately exceed 50% of the total dominance measure for a vegetation stratum, plus any additional species comprising 20% or more of the total dominance measure for that stratum. If the recorded plant species did not exceed 50% of the total dominance, then the prevalence index was used. The prevalence index is a wetland indicator which takes into account all plant species and calculates a weighted average by assigning each indicator status category a numeric code (OBL = 1, FACW = 2, FAC = 3, FACU = 4, and UPL = 5). Plant species are also

weighted by their abundance. The prevalence index ranges from 1 to 5, and a prevalence index of 3.0 or less indicates that hydrophytic vegetation is present.

2.2 Hydrology

As defined by the 1987 COE Manual, the term "wetland hydrology" encompasses all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Areas with evident characteristics of wetland hydrology are those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions, respectively. While they may not provide an abundance of information about long-term wetness conditions on a given site, wetland hydrology indicators provide evidence that the Site currently has a wetland hydrologic regime. This information, coupled with the presence of hydrophytic vegetation and hydric soils, provides evidence of long-term as well as short-term wetland conditions.

In order to meet the hydrology criteria of a wetland, a sample location must meet one primary indicator or two secondary indicators.

Table 2.2.1							
Primary in	dicators	Secondary indicators					
Surface water (A1)	Water-stained leaves (B9)	Surface soil cracks (B6)					
High water table (A2)	Aquatic fauna (B13)	Sparsely vegetated concave surface (B8)					
Saturation (A3)	Marl deposits (B15)	Drainage patterns (B10)					
Water marks (B1)	Hydrogen sulfide odor (C1)	Moss trim lines (B16)					
Sediment deposits (B2)	Oxidized rhizospheres along living roots (C3)	Dry season water table (C2)					
Drift deposits (B3)	Presence of reduced iron (C4)	Crayfish burrows (C8)					
Algal mat or crust (B4)	Recent iron reduction in tilled soils (C6)	Saturation visible on aerial imagery (C9)					
Iron deposits (B5)	Thin muck surface (C7)	Geomorphic position (D2)					
Inundation visible on aerial imagery (B7)		Shallow aquitard (D3)					
		Fac-neutral test (D5)					

2.3 Soils

Hydric soils are defined as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, July 13, 1994). Almost all hydric soils exhibit characteristic morphologies that are a result of repeated periods of saturation and/or inundation for more than a few days at a time. When combined with anaerobic microbial activity in the soil, saturation and inundation causes a

depletion of oxygen in the soil. This anaerobiosis process results in characteristic morphologies such as the reduction, translocation, and/or the accumulation of iron, which persists in the soil whether it is wet or dry. This process forms features in the soil that are called redoximorphic features. These characteristic morphologies are particularly useful for identifying hydric soils.

The soil investigation criterion requires the use of a soil probe or a pit excavated to a 20-inch depth in order to investigate for hydric indicators. These indicators typically include, but are not limited to:

- gleyed or low-chroma colors (redox depletions)
- redox concentrations
- listed on the local hydric soils list
- listed on the national hydric soils list

3.0 Results and Discussion

3.1 Site Description

The Site is located in St. Martin Parish, Louisiana approximately 1.8 miles northwest of the city of Breaux Bridge. The Site's northeast corner is located approximately 0.15 miles off LA-328 on Degeyter Rd. The entirety of the proposed site is located south of US I-10 bounded on the north by Degeyter Rd and bounded on the west by Bayou Teche.

The Site is along the natural levee of Bayou Teche and is comprised of both forested areas and open fields. The site is relatively flat overall with 0 to 1 percent slopes except for the areas immediately adjacent to the bayou (**Figure 1**). The project area along Bayou Teche is slightly lower in elevation, dropping approximately 10 feet in elevation west of the natural levee.

Twenty-one sample plot locations were taken along pre-determined transect lines within the proposed Site. Plot locations were selected based on visual observations of changes in vegetation, hydrology, and topography. Recorded data forms and photographs are presented in **Appendix A**. The photographs illustrate typical conditions that were observed at each Plot.

3.2 Vegetation

The Site traverses approximately 0.65 miles and covers several different habitat types. The area immediately adjacent to Bayou Teche is lower in elevation and is comprised of bottomland hardwoods. The higher natural levee area and forested ridges are primarily deciduous forest. The remaining flat areas of the Site are grasslands with some shrubs near habitat transitions. (**Figures 2-5**).

The bottomland hardwoods adjacent to Bayou Teche consisted primarily of water hickory (*Carya aquatica*), green ash (*Fraxinus pennsylvanica*), and water oak (*Quercus nigra*) with common buttonbush (*Cephalanthus occidentalis*) and savannah-panicgrass (*Phanopyrum gymnocarpon*) in the understory. Other forested areas within the Site were comprised mainly of water oak, green ash, basketgrass (*Oplismenus hirtellus*), and Virginia creeper (*Parthenocissus quinquefolia*).

The upland grasslands were dominated by white clover (*Trifolium repens*), golden tickseed (*Coreopsis tinctoria*), curly dock (*Rumex crispus*), Johnsongrass (*Sorghum halepense*), and Canada goldenrod (*Solidago canadensis*).

The palustrine emergent wetland areas were dominated by southern cutgrass (*Leersia hexandra*), common rush (*Juncus effusus*), grassleaf rush (*Juncus marginatus*), Cherokee sedge (*Carex cherokeensis*), and common spikerush (*Eleocharis palustris*).

The recorded plots that were dominated by hydrophytes and met the hydrophytic vegetation criteria of a wetland are referenced in **Table 4.1 (Plot ID Summary**). A complete list of vegetation associated with each plot can be found in the corresponding data sheets located in **Appendix A**. The location of each plot, relative to the proposed site, is illustrated in **Figures 5 & 6**.

3.3 Hydrology

The topography within the Site can mostly be described being relatively flat and gently undulating with slopes of zero to one percent (**Figure 3**). The project is located along the natural levee of Bayou Teche, so the slope gradient increases moving west from the levee. Higher slopes occur on the natural levee areas where runoff is high and water drains toward Bayou Teche. Due to the nature of the soils in the project area, the permeability is very slow. The majority of the site is at a relatively lower flood risk due to an increase of elevations on the natural levee.

Wetland hydrology indicators were identified throughout the site. Hydrology indicators within the palustrine forested and palustrine emergent wetlands consisted of saturation (A3), water-stained leaves (B9), oxidized rhizospheres along living roots (C3), surface soil cracks (B6), sparsely vegetated concave surface (B8), Crawfish burrows (C8), geomorphic position (D2), and/or FAC-neutral test (D5). All wetlands appear to have indirect or direct connectivity to Bayou Teche.

Each sampling point containing wetland hydrology is noted on **Table 4.1**. Wetland hydrology indicators associated with each plot can be referenced in the corresponding data sheets of **Appendix A**.

3.4 Soils

According to the St. Martin Parish Soil Survey, the Site has three mapped soil units. The soil units located within the delineated area are Gp – Gallion-Perry complex, gently undulating, Dd – Dundee silt loam, and Te – Tensas silty clay loam, 0 to 1 percent slopes. The mapped soil units listed above can be referenced on **Figure 2**.

All the sample plots found within wetlands met the hydric soils criteria of a wetland by meeting the depleted matrix (F3) or the redox dark surface (F6) indicators. Please see **Table 4.1** for plots that met the hydric soil indicators of a wetland. Soil characteristics associated with each plot can be found in the corresponding data sheets located in **Appendix A**.

4.0 Findings & Conclusions

It is Fenstermaker's opinion that the Site contains approximately 3.04 acres of palustrine forested (PFO) wetlands and approximately 6.4 acres of palustrine emergent (PEM) wetlands within the project boundary (**Table 4.2**). Other Waters (non-Wetland waters) were also mapped within the Site and are listed in **Table 4.3**. Areas identified as wetlands met all three technical criteria which consists of hydrophytic vegetation, wetland hydrology and hydric soils. All wetlands appear to have indirect or direct connectivity to Bayou Teche.

A jurisdictional determination should be obtained from the U.S. Army Corp of Engineers prior to impacting any wetlands (PFO Wetlands and PEM Wetlands) or Other Waters identified within the Site. Based on recorded plots, it is Fenstermaker's opinion that wetland polygons/lines displayed in **Figure 5** best illustrate wetland locations and boundaries in the Site. Additionally, **Figure 5** illustrates Other Water locations and boundaries within the Site. All boundaries were physically mapped during the field investigation. A Department of the Army Permit should be acquired prior to any mechanized land clearing activities or the deposition of fill material in jurisdictional waters and/or wetlands. **Table 4.1**, on the ensuing page, depicts the presence/absence of each of the three wetland technical criteria at each plot, while **Table 4.2** provides a list of Waters and **Table 4.3** provides a list of Other Waters identified throughout the Site.

A jurisdictional wetland determination can only be made by the U. S. Army Corps of Engineers (COE). Consultants such as Fenstermaker can perform field investigations (delineations), collect data in a prescribed manner, and submit it to the COE along with recommendations; however, it is the COE that makes the final determination. The New Orleans District U.S. Army Corps of Engineers has jurisdiction in the area of this project.

			Table 4	l.1 - Plot	ID Summary		
Plot #	SAMPLE DATE	STATUS	HYDROPHYTIC VEGETATION	HYDRIC SOILS	WETLAND HYDROLOGY	LATITUDE	LONGITUDE
SP-1	06/07/22	Non-Wet		Х		30.292982	-91.921479
SP-2	06/07/22	Non-Wet				30.291998	-91.924371
SP-3	06/07/22	Non-Wet	Х			30.290949	-91.926123
SP-4	06/07/22	Non-Wet				30.29038	-91.92701
SP-5	06/07/22	Wet	Х	Х	Х	30.290217	-91.927222
SP-6	06/07/22	Wet	Х	Х	х	30.289763	-91.926827
SP-7	06/07/22	Non-Wet				30.289936	-91.926524
SP-8	06/07/22	Non-Wet	Х			30.289844	-91.925707
SP-9	06/07/22	Non-Wet		Х		30.290655	-91.925107
SP-10	06/07/22	Non-Wet				30.292166	-91.922601
SP-11	06/07/22	Wet	Х	Х	Х	30.292147	-91.92262
SP-12	06/07/22	Non-Wet	Х			30.291118	-91.923954
SP-13	06/07/22	Wet	Х	Х	Х	30.293714	-91.917727
SP-14	06/07/22	Non-Wet				30.293555	-91.918397
SP-15	06/07/22	Non-Wet				30.293131	-91.919903
SP-16	06/07/22	Wet	Х	Х	х	30.292725	-91.920553
SP-17	06/07/22	Wet	Х	Х	Х	30.292903	-91.92063
SP-18	06/07/22	Non-Wet				30.292238	-91.921334
SP-19	06/07/22	Wet	X	Х	X	30.290632	-91.92374
SP-20	06/07/22	Non-Wet	X			30.290105	-91.924972
SP-21	06/07/22	Wet	X	Х	X	30.289451	-91.926066

Table 4.1 below lists the sample plots collected throughout the Site in addition to the Date, Status, Wetland Criteria, and Latitude & Longitude.

	Table 4.2 - Wetland ID Summary									
Wetland ID	Cowardin Classification	Acres	LATITUDE	LONGITUDE						
1	PEM	0.37	30.2934588	-91.9188419						
2	PEM	0.24	30.2931461	-91.9187425						
3	PEM	1.84	30.2925120	-91.9205477						
4	PFO	0.45	30.2926757	-91.9209208						
5	PEM	1.32	30.2917361	-91.9217634						
6	PFO	0.15	30.2919722	-91.9219573						
7	PEM	0.06	30.2920517	-91.9227610						
8	PEM	0.05	30.2908833	-91.9225147						
9	PEM	2.52	30.2905440	-91.9237713						
10	PFO	2.44	30.2898668	-91.9268137						

Table 4.2 below lists the wetlands identified throughout the Site in addition to the Wetland ID, Cowardin Classification, Acreage, and Latitude & Longitude.

Table 4.3 below lists the Other Waters identified throughout the Site in addition to the Water ID, Cowardin Classification, Description, Acreage, and Latitude & Longitude.

	Table 4.3 – Other Waters ID Summary								
Water ID	Cowardin Classification	Description	Acres	LATITUDE	LONGITUDE				
OW-1	PUB3	Ditch	0.06	30.2905905	-91.9267905				
OW-2	PUB3	Drainage	0.06	30.2899569	-91.9266690				
OW-3	R2UBH	Bayou	0.47	30.2896423	-91.9268308				
OW-4	PUB3	Ditch	0.23	30.2913035	-91.9217801				
OW-5	PUB3	Ditch	0.12	30.2938682	-91.9184733				

5.0 References

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.
- Lewis M. Cowardin, Virginia Carter, Francis C. Golet, Edward T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service Report No. FWS/OBS/-79/31. Washington, D.C.
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- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at the following link: <u>https://websoilsurvey.sc.egov.usda.gov/</u>. Accessed Sept/11/2019.
- U.S. Army Corps of Engineers. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. November 2010. Version 2.0
- U.S. Department of Agriculture, Natural Resources Conservation Service. 2018. *Field Indicators of Hydric Soils in the United States*, version 8.2. L.M. Vasilas, G.W. Hurt, and J. F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

FIGURE 1 – VICINITY MAP

Wetland Delineation Report – 2224952.00C One Acadiana Breaux Bridge I-10 Site



FIGURE 2 – SOIL SURVEY MAP

Wetland Delineation Report – 2224952.00C One Acadiana Breaux Bridge I-10 Site



FIGURE 3 – LiDAR MAP



FIGURE 4 – SHEET INDEX MAP



FIGURE 5 - WETLAND DETAIL MAP

Wetland Delineation Report – 2224952.00C One Acadiana Breaux Bridge I-10 Site









FIGURE 6 – FLAGGING/INFRARED MAP

Wetland Delineation Report – 2224952.00C One Acadiana Breaux Bridge I-10 Site









APPENDIX A – DATA FORMS & PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling I	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASamp	ling Point: <u>1</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	_
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.292	982° Long: <u>-91.921479°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🗹 No 🗌 (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturt	bed? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Rer	narks.)

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

Hydrophytic Vegetation Present? Yes No Image: Comparison of the sector of the se	Is the Sampled Area within a Wetland? YesNo
Remarks:	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Darinage Patterns (B10) Dodor (C1) Moss Trim Lines (B16) Dreres on Living Roots (C3) Dry-Season Water Table (C2) ced Iron (C4) C70 Geomorphic Position (D2) Remarks) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes <u>□</u> No <u>☑</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, Remarks:	revious inspections), if available:

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

	nes or plants.				Jan	pling Folli		
	Abaaluta	Deminant	la dia atau	Dominance Test	worksheet	t:		
Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Status	Number of Domi	nont Snooi	~~		
1	<u></u>	no	Olalus	That Are OBL F	ACW or F	es AC:	0	(A)
2		<u></u>					<u> </u>	(7.9
3		<u></u>		Total Number of	Dominant			
4		<u></u>		Species Across /	All Strata:		1	(B)
5		<u></u>						. ,
6		<u> </u>		Percent of Domir	nant Specie	es		
····				That Are OBL, F	ACW, or F/	AC:	0	(A/B)
EQ 9/ of total aquary				Drevelence Index	werkehe			
	20%0	bi total cover:	0	Total % Cove	er of:	ec. Multi	nly hy:	
Sanling Stratum (Plot size: 30ft)					0	<u>v 1 –</u>	0	_
1.		no				× 1 –		-
2		<u></u>		FACW species	0	X 2 =	0	_
2		<u> </u>		FAC species	25	X 3 =	75	
A		<u> </u>		FACU species	100	X 4 =	400	
				UPL species	0	X 5 =	0	
6				Column Totals:	125	(A)	475	- (B)
U		Total Carr	or		·	× 7		
			er				~ ~	
	20%0	or total cover:		. Preva	lence Inde	x = B/A =	3.8	
Shruh Stratum (Plat size: 20ft)				Hydrophytic Vegetation Indicators:				
1		no		1 – Rapid Test	for Hydrop	hytic Vege	etation	
2				2 – Dominance	Test is > {	50%		
2				3 – Prevalence	Test is ≤ 3	3.0 ¹		
4		<u> </u>		Problematic Hy	drophytic	Vegetation	¹ (Explai	in)
۶		<u></u>				U	· ·	,
5		<u></u>		¹ Indicators of hyd	dric soil and	d wetland h	nydrolog	jy musi
0				- be present, unless disturbed or problematic.				
				Definitions of Ve	getation S	trata:		
	20%0	bi total cover:	0	Tree – Woody pla	nts exclud	ing woody	vines	
Herb Stratum (Plot size: 30ft)				approximately 20	it (6 m) or 1	more in he	ight and	3 in.
1 Cynodon dactylon (Bermuda Grass)	80	VAS	EACU	(7.6 cm) or larger	in diameter	r at breast	height (I	DBH).
2 Trifolium repens (White Clover)		<u>yes</u>						_
3 Paspalum urvillei (Vasev's Grass)			EAC	approximately 201	frams, exc	more in he	ight and	s, less
4 Lepidium latifolium (Broad-Leaf Penperwort)		<u></u>		than 3 in. (7.6 cm)	DBH.		.g.n a.r.a	
5 Ambrosia trifida (Great Ragweed)	5	<u> </u>		•				
6		<u> </u>	FAC	Shrub – Woody p	ants, exclu	Iding wood	ly vines,	
7				approximately 3 to	20 π (1 το	6 m) in ne	ignt.	
۰ ۹				Herb – All herbace	eous (non-'	woody) pla	ints, incl	uding
8		<u></u>		herbaceous vines.	, regardles:	s of size. I	ncludes	woody
9		<u></u>		plants, except woo	ody vines, l	ess than a	pproxim	ately
10		no						
· · · · · · · · · · · · · · · · · · ·		no		Woody vine – All	woodv vine	es. regardl	ess of h	eiaht.
	125	= I otal Cov	er		,	, - J		5
50 % of total cover: 63	<u> </u>	of total cover:	25					
voody vine Stratum (Piot size: <u>30ft</u>)				Hydrophytic	;			
۱		<u></u>		Present?	Ve	• 🗆	No	v
2		<u></u>			16	<u> </u>	<u> </u>	<u> </u>
J		no						
4		no						
ə		no						
	0	= Total Cov	er					
50 % of total cover: 0	20 % c	of total cover:	0					

Sampling Point

SOIL

	arintianı (Dasariha	to the depth	noodod to doou	mont the i	ndiantar	roonfirm	the cheeree of	Sampin			I
Depth	Matrix	to the depth	needed to docu	edox Featu	res	or confirm	the absence of	of indicators	5.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remark	KS	
0-6	10YR 3/1	90	3/6	10	С	Μ	Silty Clay				
6-20	10YR 4/2	95	10YR 3/6	5	С	M	Silty Clay				
-	·			·							
-	·			·		. <u> </u>					
-				·		. <u></u>					
-				·							
-				·		·					
ype: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	ed Sand Gr	ains. ² Lo	ocation: PL=	Pore Linin	ıg, M=M	latrix.
ydric Soil	Indicators:						Indicat	ors for Prob	lematic H	lydric S	oils ³ :
] Histosol	(A1)		Delyvalue B	elow Surfac	ce (S8) (L l	RR S , T, U) <u> </u>	1uck (A9) (L l	RR O)		
] Histic Ep	oipedon (A2)		□ Thin Dark S	uface (S9)	(LRR S, T	, U)	2 cm №	1uck (A10) (I	LRR S)		
] Black His	stic (A3)		Loamy Mucł	ky Mineral (F1) (LRR	0)	□ Reduc	ed Vertic (F1	8) (outsic	le MLR/	A 150A,
] Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (I	F2)		D Piedm	ont Floodpla	in Soils (F	19) (LR	R P, S, '
Stratified	Layers (A5)		Depleted Ma	atrix (F3)			Anoma	alous Bright I	Loamy Soi	ils (F20)	
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		(ML	RA 153B)			
	cky Mineral (A7) (LF	RR P, T, U)	Depleted Da	rk Surface	(F7)		□ Red Pa	arent Materia	al (TF2)		
 □ Muck Pr	esence (A8) (LRR U)	□ Redox Depr	essions (F8	3)		□ Verv S	hallow Dark	Surface (1	ΓF12)	
	ck (A9) (LRR P. T)	,	□ Marl (F10) (I		- /		□ Other	Explain in R	emarks)	,	
] Depleter	Below Dark Surfac	e (A11)	\Box Depleted Oc	-hric (F11) (31)			omanoj		
Thick Da	ark Surface (A12)	C (ATT)			(F12)	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	т)				
	ink Sullace (A12)					IN U, F,	³ Indica	tors of Hydro	ophytic veg	getation	and
	allie Redox (AT6) (I	NERA 150A)	Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless								
$_$ Sandy M	lucky Mineral (S1) (L	_RR 0, 5)	□ Delta Ochric (F17) (MLRA 151) disturbed or problematic.								
Sandy G	leyed Matrix (S4)		□ Reduced Vertic (F18) (MLRA 150A, 150B)								
<u> </u>	edox (S5)		Piedmont Fl	oodplain So	oils (F19)	(MLRA 149	9A)				
☐ Stripped	Matrix (S6)		Anomalous I	Bright Loan	ny Soils (F	20) (MLR	A 149A, 153C,	153D)			
<u> </u> _Dark Su	face (S7) (LRR P, S	5, T, U)									
estrictive	l aver (if observed)										
Tvpe:		•									_
Depth (ir	ches).		_		Hydric Soil Present? Yes <u>V</u> No						
Deptii (ii	<u> </u>										
emarks:											



Photo 1: Plot 1 - Soil sample





Photo 3: Plot 1– Vegetation facing east





Photo 5: Plot 1– Vegetation facing west
Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASamp	ling Point: <u>2</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.291	1998° Long: <u>-91.924371°</u>	Datum: WGS 84
Soil Map Unit Name: Dundee silt loam	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remarks.))
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Re	marks.)

	V V	•••	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Image: No Image: No Yes Image: No Image: No Yes Image: No Image: No	Is the Sampled Area within a Wetland?	Yes No
Remarks: -			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is require)	d: check all that apply) Aquatic Fauna (B13) Autic Fauna (B13) Autic Fauna (B13) Autic Fauna (B15) (L Autic Fauna (B15) (L Autic Fauna (B15) Autic Fauna (B13) Autic Fauna (B13)	RR U) (C1) on Living Roots (C3) ron (C4) in Tilled Soils (C6)) Irks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes No Yes (includes capillary fringe) Yes	☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches):	Wetland Hydro	ology Present? Yes 🗌 No 🗹
Describe Recorded Data (stream gauge, mon Remarks:	toring well, aerial photos, previo	bus inspections), if availa	ible:

		Samp

Absolute <u>% Cover</u>	Dominant <u>Species?</u> <u>no</u> no no	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)		
Absolute <u>% Cover</u>	Dominant Species? no no no	Indicator Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)		
<u>% Cover</u>	<u>Species?</u> <u>no</u> no no	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)		
	no no no		That Are OBL, FACW, or FAC: 0 (A)		
	<u>no</u> no				
	no				
			Total Number of Dominant		
	no		Species Across All Strata: 1 (B)		
	no				
	<u></u>		Percent of Dominant Species		
0	- Total Cov	/er	That Are OBL, FACW, or FAC: 0 (A/B)		
20 % (of total cover:	· 0	Prevalence Index worksheet:		
20 /0 0			Total % Cover of: Multiply by:		
			OBI species 0 x 1 - 0		
	no				
	<u></u>		FACW species $0 X = 0$		
			FAC species 15 X 3 = 45		
	no		FACU species 90 X 4 = 360		
	no	·	UPL species $5 \times 5 = 25$		
	no		$\begin{array}{c} \hline \\ \hline $		
	no		(A) 450 (B)		
0	= Total Cov	/er			
20 % c	of total cover:	0	Prevalence Index = $B/A = 3.91$		
			Hydrophytic Vegetation Indicators:		
			1 – Rapid Test for Hydrophytic Vegetation		
	no		\square 2 = Dominance Test is > 50%		
	no				
	no		\Box 3 – Prevalence Test is $\leq 3.0^{\circ}$		
	no		Problematic Hydrophytic Vegetation ¹ (Explain)		
	no				
	no		Indicators of hydric soil and wetland hydrology must		
	- Total Cov		De present, unless disturbed of problematic.		
20 % (of total cover:	· 0	Demitions of vegetation Strata:		
20 % C			Tree – Woody plants, excluding woody vines.		
			approximately 20 ft (6 m) or more in height and 3 in.		
75	VOC	EACU	(7.6 cm) or larger in diameter at breast height (DBH).		
	<u>yes</u>	<u> </u>			
15			Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in beight and loss		
	no	FACU	than 3 in (7.6 cm) DBH		
5	no	UPL			
	no		Shrub – Woody plants, excluding woody vines,		
	no		approximately 3 to 20 ft (1 to 6 m) in height.		
	no				
	no		Herb – All herbaceous (non-woody) plants, including		
	no		plants, except woody vines, less than approximately		
	no		3 ft (1 m) in height.		
	no				
110	= Total Cov	/er	Woody vine – All woody vines, regardless of height.		
20 % (of total cover:	22			
			Hydrophytic		
	no		Vegetation		
	<u></u>		Present? Yes D No V		
	<u></u>				
	<u> </u>		·		
	10				
0	= Total Cov	/er			
20 % c	of total cover:	0	.		
o choot)					
c sheet.)					
6 311001.)					
C 311661.)					
G SHEEL.)					
5 511661. <i>)</i>					
5 511 66 1.)					
	$ \begin{array}{c} 0 \\ 20 \% c \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	$\begin{array}{c} 0 & = Total Cov \\ 20 \% of total cover: \\ 20 \% of total cover: \\ no \\ n$	0 = Total Cover 0 20 % of total cover: 0 no no 0 = Total Cover 20 % of total cover: 0 no no 15 no 15 no no no no<		

SOIL								Sampling	Point:		2
Profile Des	cription: (Describe	to the depth	needed to docu	ment the inc	dicator or	confirm th	e absence of i	indicators.)		
Depth	Matrix	·	Re	edox Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remar	ks	
0-20	10YR 4/3	95	10YR 3/4	5	С	М	Clay				
_											
	·										
-				·							
-											
-											
-				· ·							
	·			·		<u> </u>					
-	· ·			·	<u> </u>						
	oncontration D-Dor	Notion PM-E	Poducod Matrix C	S-Covorod	or Contod	Sand Grain	21.000	ntion: DI -	Doro Linir	a M-N	lotriv
Type. C=C			ceduced Matrix, C	S=Covereu	or Coaleu	Sanu Grain	15. LUCA	alion. PL=r		ig, ivi=iv	Idli IX.
Hydric Soil	Indicators:						Indicator	s for Probl	ematic H	lydric S	oils ³ :
□ Histosol	(A1)		Polyvalue Be	elow Surface	(S8) (LRI	R S, T, U)	🗆 1 cm Mu	ck (A9) (LR	(R O)		
Histic Ep	pipedon (A2)		□ Thin Dark Su	uface (S9) (L	RR S. T.	U)	2 cm Mu	ck (A10) (L	RR S)		
Black Hi	stic (A3)			v Mineral (F	1) (LRR O))	Reduced	Vertic (F1)) B) (outsi o	de MLR	A 150A.B)
	n Sulfide (A4)		□ Loamy Glev	ed Matrix (E2	·) (,		t Floodolaii	n Soils (F	19) (I R	RPST)
Stratified	avers (A5)			atrix (F3)	-,			us Bright I		ils (F20)	, 2, .)
	Padiaa (AG) (I DD D	T 11)		Surface (EG)				452D)		13 (1 20)	
								4 133D) 			
	CKy Mineral (A7) (LR	(R P, I, U)		rk Surrace (r	-7)			ent Materia	(1F2)		
	esence (A8) (LRR U)		essions (F8)			U very Sna	allow Dark 3	Surface (IF12)	
	ck (A9) (LRR P, T)		<u> </u>	_RR U)			U Other (E:	xplain in Re	emarks)		
Depleted	Below Dark Surface	e (A11)	Depleted Oc	hric (F11) (№	ILRA 151))					
Thick Da	rk Surface (A12)		□ Iron Mangan	ese Masses	(F12) (LR	R O, P, T)	³ Indicato	rs of Hvdro	phytic ve	netation	and
Coast Pr	airie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ace (F13) (Ll	RR P, T, U	J)	wetland I	nydrology r	nust be p	resent,	unless
□ Sandy M	lucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (MLR	A 151)		disturbed	or problem	natic.		
□ Sandy G	leyed Matrix (S4)		Reduced Ve	rtic (F18) (M	LRA 150A	A, 150B)					
□ Sandy R	edox (S5)		Piedmont Fle	oodplain Soil	s (F19) (N	ILRA 149A))				
□ Stripped	Matrix (S6)		Anomalous I	Bright Loamy	Soils (F2	0) (MLRA 1	49A, 153C, 15	3D)			
Dark Su	face (S7) (LRR P, S	, T, U)									
		,									
					-						
Restrictive	Layer (if observed)	:									
Type:					Hydri	ic Soil Pres	ont?	Voc		No	
Depth (ir	nches):		_		nyun	ic our ries	ent:	163			
Pemarks:											
Remarks.											







Photo 8: Plot 2– Vegetation facing east





Photo 10: Plot 2– Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: St. Martin Parish Sampling	g Date: <u>06/07/2022</u>
Applicant/Owner: One Acadiana	State: LASam	npling Point: <u>3</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	_
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): <u>0</u>
Subregion (LRR or MLRA): LRR O Lat: 30.290	0949° Long: <u>-91.926123°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: PUBHx	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remarks	3.)
Are Vegetation, Soil, or Hydrologysignificantly distu	Irbed? Are "Normal Circumstances" present	? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in R	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ☑ No □ Yes □ No ☑ Yes □ No ☑	Is the Sampled Area within a Wetland?	Yes No V
Remarks: -			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>check all that apply)</u> Aquatic Fauna (B13) Marl Deposits (B15) (I Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reductior Thin Muck Surface (C Other (Explain in Rem	_RR U) or (C1) is on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7) narks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No No Water Table Present? Yes No No Saturation Present? Yes No Saturation (includes capillary fringe) Yes No Saturation	Image: Depth (inches):	Wetland Hydr	ology Present? Yes 🗌 No 🗹
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, prev	ious inspections), if avail	able:

scientific names of plar	nts.			Sampling Point	3
Abaal		Deminent	la dia atau	Dominance Test worksheet:	
Absol % Co	ute ver	Species?	Status	Number of Dominant Species	

Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species	
1		no		That Are OBL, FACW, or FAC: 2	(A)
2		no			
3.		no		Total Number of Dominant	
4.		no		Species Across All Strata: 3	(B)
5.		no			
6.		no		Percent of Dominant Species	
	0	= Total Cov	er	That Are OBL, FACW, or FAC: 00	_ (A/B)
50 % of total cover: 0	20 % (of total cover:	0	Prevalence Index worksheet:	
				Total % Cover of: Multiply by	:
Sapling Stratum (Plot size: 30ft)				OBI species 0 $x 1 = 0$	
1.		no		$\frac{1}{1} = \frac{1}{1} = \frac{1}{1}$	
2.		<u></u>		FACTOR Species $0 \times 2 = 0$	
3		<u></u>		FAC species 100 X 3 = 30	0
Δ		<u></u>		FACU species <u>60</u> X 4 = <u>240</u>)
5		<u> </u>		UPL species 0 X 5 = 0	
5		<u> </u>		Column Totals: 160 (A) 54	D (B)
б		<u>no</u>			(-)
		= I otal Cov	er		_
50 % of total cover: 0	20 % c	of total cover:	0	Prevalence Index = $B/A = 3.3$	8
				Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: <u>30ft</u>)				□ 1 – Rapid Test for Hydrophytic Vegetation	
1		no		$\boxed{2}$ – Dominance Test is > 50%	
2		no		$\square 3 - \text{Prevalence Test is } \leq 30^1$	
3		no		\Box 3 - Flevalence Test is \leq 5.0	(a.i.e.)
4		no			iain)
5.		no		¹ Indiactors of hydric soil and watland hydrol	o av must
6.		no		be present unless disturbed or problematic	ogy musi
	0	= Total Cov	er	Definitions of Vegetation Strata:	
50 % of total cover: 0	20 % (of total cover:	0	Deminions of Vegetation of ata.	
				Tree – Woody plants, excluding woody vines	,
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height a	nd 3 in.
1. Trifolium repens (White Clover)	60	VAS	FACU	(7.6 cm) or larger in diameter at breast heigh	t (DBH).
2 Rumex crispus (Curly Dock)	40	<u>yes</u>		Contine Maschenter eveludie europeter	
3 Coreopsis tinctoria (Golden Tickseed)	40	<u>yes</u>		approximately 20 ft (6 m) or more in height a	nd less
Ambrosia trifida (Great Ragweed)	20	<u>yes</u>		than 3 in. (7.6 cm) DBH.	
	20	<u> </u>	FAC	· ````	
5		no		Shrub – Woody plants, excluding woody vine	es,
6.		no		approximately 3 to 20 ft (1 to 6 m) in height.	
<i>1</i>		no		Herb – All berbaceous (non-woody) plants in	cluding
8		no		herbaceous vines, regardless of size. Include	es woodv
9		no		plants, except woody vines, less than approx	imately
10		no		3 ft (1 m) in height.	-
11		no			
	160	= Total Cov	er	Woody vine – All woody vines, regardless of	height.
50 % of total cover: 80	20 % 0	of total cover:	32		
Woody Vine Stratum (Plot size: 30ft)				Hydrophytic	
1.		no		Vegetation	
2.		 		Present? Yes V No	
3		<u></u>			
Δ		<u> </u>		·	
۳ ۶	·	110			
J.		<u>no</u>		.	
	0	= Total Cov	er		
50 % of total cover: 0	20 % c	of total cover:	0	.	
				· [
Remarks: (Include photo numbers here or on a separate	sheet.)				
1					

SOIL				Sampling Point:	3
Profile Description: (Describe to the depth	needed to document the indic	cator or confirm the	absence of in	dicators.)	
Depth Matrix	Redox Features			,	
(inches) Color (moist) %	Color (moist) % T	ype ¹ Loc ²		Remar	ks
0-20 10YR 5/3 95	10YR 4/6 5	С М	Clav		
		<u> </u>			
-					
			· · · · · · · · · · · · · · · · · · ·		
<u> </u>					
-					
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, CS=Covered or	Coated Sand Grain	s. ² Locati	on: PL=Pore Lini	ng, M=Matrix.
Hydric Soil Indicators:			Indicators	for Problematic I	-lydric Soils ³
					Tyune oons .
		(LKK 3, 1, 0)			
□ Histic Epipedon (A2)	□ Thin Dark Suface (S9) (LR	R S, T, U)	\Box 2 cm Muck	t (A10) (LRR S)	
□ Black Histic (A3)	Loamy Mucky Mineral (F1)	(LRR O)	<u>Reduced V</u>	/ertic (F18) (outsi	de MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Piedmont I	Floodplain Soils (F	¹ 19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)		Anomalous	s Bright Loamy So	oils (F20)
Organic Bodies (A6) (LRR P, T, U)	□ Redox Dark Surface (F6)		(MLRA	153B)	
5 cm Mucky Mineral (A7) (LRR P. T. U)	Depleted Dark Surface (F7)	Red Paren	, t Material (TF2)	
$\square \text{ Muck Presence (A8) (I RR II)}$	$\square \text{ Redax Depressions (F8)}$	/	□ Very Shall	ow Dark Surface (TF12)
				lain in Pomarka)	11 12)
				nam in Kemarks)	
		KA 131)			
□ Thick Dark Surface (A12)	Iron Manganese Masses (F	-12) (LRR O, P, T)	³ Indicators	of Hydrophytic ve	getation and
□ Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRF	R P, T, U)	wetland hy	drology must be p	present, unless
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA	151)	disturbed of	or problematic.	
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLF	RA 150A, 150B)			
Sandy Redox (S5)	Piedmont Floodplain Soils	(F19) (MLRA 149A)			
Stripped Matrix (S6)	Anomalous Bright Loamy S	Soils (F20) (MLRA 1	49A, 153C, 153	D)	
Dark Surface (S7) (LRR P, S, T, U)					
Restrictive Layer (if observed):					
Туре:				V	N. 7
Depth (inches):	_	Hydric Soli Prese	ent?	Yes 💷	NO
Remarks:					



Photo 11: Plot 3 - Soil sample



Photo 12: Plot 3 – Vegetation facing north Breaux Bridge 1-10



Photo 13: Plot 3– Vegetation facing east





Photo 15: Plot 3– Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LA Samp	ling Point: <u>4</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Ridge	Local relief (concave, convex, none): Convex	Slope (%): <u>1-3</u>
Subregion (LRR or MLRA): LRR O Lat: 30.290	038° Long: <u>-91.92701°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	_
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes 🗹 No 🗌 (If no, explain in Remarks.)	1
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Re	marks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes □ No ☑ Yes □ No ☑ Yes □ No ☑	Is the Sampled Area within a Wetland?	Yes No		
Remarks: -					
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>check all that apply)</u> Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Crubis in Power	RR U) (C1) on Living Roots (C3) ron (C4) n Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Acuterd (D2)		
Initial Deposits (B3) Initial Indiation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		185)	☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)		
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) No	2 Depth (inches): 2 Depth (inches): 2 Depth (inches):	Wetland Hydr	ology Present? Yes 🗌 No 🗹		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

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EGETATION (Five Strata) - Use scientific nam	es of plants.				Samp	ling Point		4
				Dominance Test	worksheet			
	Absolute	Dominant	Indicator					
Free Stratum (Plot size: 30ft)	% Cover	Species?	Status	Number of Domi	nant Specie	es		
. Quercus nigra (Water Oak)	65	ves	FAC	That Are OBL, F	ACW, or FA	NC:	3	(A)
Fraxinus pennsylvanica (Green Ash)	15	<u></u>	FACW	,				()
······································		<u></u>		Total Number of	Dominant			
·		<u></u>		Species Across /	All Strata:		7	(B)
·		<u> </u>						()
		no		Percent of Domir	nant Specie	s		
·		no		That Are OBL, F	ACW, or FA	C: 4	42	(A/B)
	80	= Total Cov	ver	,				、 ,
50 % of total cover: 40	20 % c	of total cover	: 16	Prevalence Index	workshee	t:		
				Total % Cove	er of:	Multi	ply by:	_
apling Stratum (Plot size: <u>30ft</u>)				OBL species	0	x 1 =	0	
Fraxinus pennsylvanica (Green Ash)	15	yes	FACW	FACW species	30	X 2 =	60	
		no			405	× 2	245	_
		<u></u>		FAC species	105	X 3 =	315	_
				FACU species	70	X 4 =	280	
		10		UPL species	0	X 5 =	0	
		no		Column Totals:	205	(Δ)	655	(B)
·		no		Column rotais.	205	(~)		_ (D)
	15	= Total Cov	ver					
50 % of total cover: 8	20 % c	of total cover	: 3	Preva	lence Index	(= B/A =	3.2	
				Hydrophytic Vege	tation Indic	ators.		
hrub Stratum (Plot size: <u>30ft</u>)					for Hydroph	butic Vogo	tation	
Prunus serotina (Black Cherry)	10	yes	FACU			iyiic vege	lation	
Callicarpa americana (American Beauty-Berry)	10	ves	FACU	2 – Dominance	Test is > 5	0%		
		<u></u>		3 – Prevalence	Test is ≤ 3	.0 ¹		
		<u></u>		Problematic Hy	drophytic V	egetation/	¹ (Explai	in)
·		110				-		
		no		¹ Indicators of hyd	ric soil and	wetland h	nydrolog	y must
·		no		be present, unles	ss disturbec	l or proble	matic.	•
	20	= Total Cov	ver	Definitions of Ve	getation St	rata:		
50 % of total cover: 10	20 % c	of total cover	: 4					
				Tree – Woody pla	nts, excludi	ng woody	vines,	0 · ·
erb Stratum (Plot size: <u>30ft</u>)				approximately 201	t (6 m) or n	nore in ne	ignt and	3 In.
. Oplismenus hirtellus (Long-Leaf Basket Grass)	40	yes	FAC	(7.6 cm) of larger	in ulameter	al Dieasi	neight (i	овп).
Parthenocissus quinquefolia (Virginia-Creeper)	40	ves	FACU	Sapling – Woody	plants, excl	ludina woo	odv vine	S.
		no		approximately 201	t (6 m) or n	nore in he	ight and	less
		<u></u>		than 3 in. (7.6 cm)	DBH.		•	
		<u></u>						
				Shrub – Woody p	ants, exclu	ding wood	ly vines,	
-		110		approximately 3 to	20 ft (1 to	o m) in he	ignt.	
·		no			our (non w	woody) pla	inte incl	udina
·		no		herbaceous vines	regardless	of size 1	ncludes	wood
·		no		plants, except woo	dy vines. le	ess than a	pproxim	atelv
0.		no		3 ft (1 m) in height				,
1.		no						
	80	= Total Cov	ver	Woody vine – All	woody vine	s, regardl	ess of h	eight.
50 % of total cover: 40	20 % c	of total cover	· 16					
	20 /8 0							
(and) / Jina Stratum (Plataiza: 2014)								
Derthere size and a minimum faile (Marchile Organic)	10		E A 011	Hydrophytic				
Partnenocissus quinquetolia (Virginia-Creeper)	10	yes	FACU	Vegetation	V		Ne	7
·		no		Present?	res	<u>ن</u> ه		
		no						
		no						
· · · · · · · · · · · · · · · · · · ·		no						
	10	- Total Ca						
	10	$= 101a1 \cup 0$	vei	1				

2

20 % of total cover:

Remarks: (Include photo numbers here or on a separate sheet.)

50 % of total cover: 5

Depth	Matrix	0/	Re	edox Featu		12			D		
(inches)		<u> % </u>	Color (moist)	<u>%</u>	Type	LOC			Remarks	S	
0-6	10YR 3/2	100		0	·		Silty Clay				
6-20	10YR 4/4	100		0			Silty Clay				
-	·			·	·						
-	<u></u>										
-	·										
-											
-											
-					·						
vpe: C=C	oncentration. D=De	pletion. RM=	Reduced Matrix. C	S=Covere	d or Coate	d Sand Gra	ains. ² Loca	ation: PL=F	Pore Lining	a. M=M	atrix.
vdric Soil	Indicators:	, · · · · ·	· · · · · · · · · · · · · · · · · · ·				Indicator	s for Prob	ematic Hy	/dric S	oils ³ :
] Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (LF	RR S, T, U)	□ 1 cm Mu	ck (A9) (LF	(R O)		
_] Histic Ep	pipedon (A2)		□ Thin Dark Su	uface (S9)	(LRR S, T	, U) , , ,	🗆 2 cm Mu	ck (A10) (L	.RR S)		
 ∃ Black Hi	stic (A3)		Loamy Muck	xy Mineral	(F1) (LRR	O)	□ Reduced	Vertic (F1	, 8) (outsid e	e MLR/	A 150A,
_] Hydroge	n Sulfide (A4)		□ Loamy Gleye	ed Matrix (F2)		Piedmon	t Floodplai	n Soils (F1	9) (LRI	R P, S, ⁻
	Layers (A5)		Depleted Ma	atrix (F3)				us Bright L	oamy Soils	s (F20)	
] Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	-6)		(MLR	A 153B)		. ,	
	icky Mineral (A7) (L l	RR P, T, U)	Depleted Da	rk Surface	e (F7)		□ Red Pare	ent Materia	l (TF2)		
] Muck Pro	esence (A8) (LRR L	J)	Redox Depre	essions (F	8)		Very Sha	allow Dark	Surface (TI	F12)	
1 cm Mu	ick (A9) (LRR P, T)		🔲 Marl (F10) (L	_RR U)			□ Other (E	xplain in Re	emarks)		
] Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 15	1)					
] Thick Da	ark Surface (A12)		□ Iron Mangan	ese Masse	es (F12) (L	RR O, P, T) ³ Indicato	re of Hydro	nhytic yea	otation	and
	rairia Raday (A16) (MLRA 150A)	Umbric Surfa	ace (F13) ((LRR P, T,	U)	wetland	hydrology r	nust he nre	esent, i	unless
Coast Pr	alle Redux (ATO) (,				-,				,	
<u>Coast</u> Pr Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)	-,	disturbed	d or probler	natic.		
<u>Coast</u> Pr Sandy M Sandy G	lucky Mineral (S1) (leyed Matrix (S4)	LRR O, S)	Delta Ochric	(F17) (ML rtic (F18) (RA 151) (MLRA 150	A, 150B)	disturbed	d or probler	natic.		
Coast Pr Sandy M Sandy G Sandy R	lucky Mineral (S1) (lucky Mineral (S1) (ileyed Matrix (S4) edox (S5)	LRR O, S)	Delta Ochric	(F17) (ML rtic (F18) (podplain S	RA 151) (MLRA 150) oils (F19) (A, 150B) MLRA 149	disturbed	d or probler	natic.		
Coast Pr Sandy M Sandy G Sandy R Sandy R	lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6)	LRR O, S)	Delta Ochric Delta Ochric Reduced Ve Piedmont Flo Anomalous E	(F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) (MLRA 150 oils (F19) (my Soils (F	0 A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15	d or probler	natic.		
Coast Pr Sandy M Sandy G Sandy R Sandy R Cripped	lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	0 A, 150B) MLRA 149 20) (MLRA	disturbed A) . 149A, 153C, 15	d or probler	natic.		
Coast Pr Sandy M Sandy G Sandy R Sandy R Carrisped	lucky Mineral (S1) (lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S	LRR O, S) S, T, U)	Delta Ochric Reduced Ve Piedmont Flo Anomalous B	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	9 A, 150B) MLRA 149 20) (MLRA	disturbed A) . 149A, 153C, 15	3 D)	natic.		
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur	lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S	LRR O, S) S, T, U)):	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (podplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15	33D)	natic.		
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Strictive	lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S	LRR O, S) S, T, U)):	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (podplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15	33D)	natic.	No	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Strictive Type: Depth (ir	lucky Mineral (S1) (lucky Mineral (S1) (edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S) S, T, U)):	Delta Ochric Reduced Ve Piedmont Flo Anomalous E	(F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) (MLRA 150 ooils (F19) (my Soils (F	0A, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15	(3D) Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Dark Sur Strictive Type: Depth (ir amarks:	Layer (if observed	LRR O, S) S, T, U)):	Delta Ochric Reduced Ve Piedmont Flo Anomalous B	(F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15 esent?	33D) Yes		No _	V
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur strictive Type: Depth (ir marks:	Layer (if observed	LRR O, S) S, T, U)):	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	33D) Yes		No _	v
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur strictive Type: Depth (ir emarks:	Ine Redox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	Yes		No _	V
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur sstrictive Type: Depth (ir emarks:	Ine Redox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15 esent?	Yes		No _	V
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Strictive Type: Depth (ir	lucky Mineral (S1) (lucky Mineral (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	M, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15 esent?	Yes		No _	V
Coast Pr Sandy M Sandy G Sandy R Candy R Dark Sur Dark Sur Stripped Dark Sur Depth (ir emarks:	lucky Mineral (S1) (lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	M, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Dark Sur Depth (ir emarks:	lucky Mineral (S1) (lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA ric Soil Pro	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Strictive Type: Depth (ir	lucky Mineral (S1) (lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous E	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	NA, 150B) MLRA 149 20) (MLRA	disturbed A) .149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur strictive Type: Depth (ir	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous E	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) .149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Dark Sur Strictive Type: Depth (ir emarks:	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous E	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Dark Sur Stripped Dark Sur	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Stripped Dark Sur Strictive Type: Depth (ir emarks:	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Dark Sur Estrictive Type: Depth (ir emarks:	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	disturbed A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (ir emarks:	Internet Redox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed inches):	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA	A) . 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur estrictive Type: Depth (ir emarks:	Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	Image: Ref light ref li	A, 150B) MLRA 149 20) (MLRA ric Soil Pro	A) . 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur estrictive Type: Depth (ir emarks:	Interkedox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed inches):	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	Image: Ref light ref li	A, 150B) MLRA 149 20) (MLRA ric Soil Pro	A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur estrictive Type: Depth (ir emarks:	Interkedox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA ric Soil Pro	A) 149A, 153C, 15 esent?	Yes		No _	
Coast Pr Sandy M Sandy G Sandy R Sandy R Dark Sur Strictive Type: Depth (ir emarks:	Interkedox (A16) (i lucky Mineral (S1) (ileyed Matrix (S4) edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed inches):	LRR O, S)	Delta Ochric Reduced Ve Piedmont Flo Anomalous F	(F17) (ML rtic (F18) (bodplain S Bright Loar	RA 151) (MLRA 150 oils (F19) (my Soils (F	A, 150B) MLRA 149 20) (MLRA ric Soil Pro	A) 149A, 153C, 15 esent?	Yes		No _	





Photo 17: Plot 4 – Vegetation facing north



Photo 18: Plot 4– Vegetation facing east





Photo 20: Plot 4– Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASam	pling Point: <u>5</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Undulating	Local relief (concave, convex, none): Convex	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.290	0217° Long: <u>-91.927222°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remarks	.)
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circumstances" present?	? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Re	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ☑ No □ Yes ☑ No □ Yes ☑ No □	Is the Sampled Area within a Wetland?	Yes <u>V</u> No
-			
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	check all that apply) □ Aquatic Fauna (B13) □ Marl Deposits (B15) (I □ Hydrogen Sulfide Odc ☑ Oxidized Rhizosphere □ Presence of Reduced □ Recent Iron Reduction □ Thin Muck Surface (C □ Other (Explain in Rem ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches):	LRR U) or (C1) es on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7) harks) Wetland Hydr	Secondary Indicators (minimum of two required) □ Surface Soil Cracks (B6) □ Sparsely Vegetated Concave Surface (B8) □ Drainage Patterns (B10) □ Moss Trim Lines (B16) □ Dry-Season Water Table (C2) ☑ Crayfish Burrows (C8) □ Saturation Visible on Aerial Imagery (C9) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ FAC-Neutral Test (D5) □ Sphagnum moss (D8) (LRR T, U)
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, prev	ious inspections), if avail	able:
Remarks:			

Sampling Point

5

				Deminance Test worksheet
	Absoluto	Dominant	Indicator	Dominance fest worksheet.
Tree Stratum (Plot size: 30ft)	% Cover	Species?	Status	Number of Dominant Species
1 Carva aquatica (Water Hickory)	35	<u>ves</u>		That Are OBL_EACW or EAC: 5 (A)
2 Triadica sebifera (Chinese Tallowtree)	15	<u></u>	EAC	
	10	<u>yes</u>	FAC	Total Number of Dominant
3		no		Species Across All Strata: 5 (B)
4.		no		
5		no		Percent of Dominant Species
6		no		That Are OBL, FACW, or FAC: 100 (A/B)
	50	= Total Cove	er	
50 % of total cover: 25	20 % c	of total cover:	10	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30ft)				OBL species $140 \times 1 = 140$
1. Triadica sebifera (Chinese Tallowtree)	10	ves	FAC	$EACW(approximation = 0) = X^2 = 0$
2.		<u></u>		$\frac{1}{1} = \frac{1}{1} = \frac{1}$
3		<u></u>		FAC species 25 X 3 = 75
3				FACU species 0 X 4 = 0
+		<u> </u>		UPL species 0 X 5 = 0
5.		no		$\frac{1}{165} \qquad (\Delta) \qquad 215 \qquad (B)$
б		no		(A) <u>215</u> (B)
	10	= Total Cove	er	
50 % of total cover: 5	20 % c	of total cover:	2	Prevalence Index = $B/A = 1.3$
				Hydronbytic Vegetation Indicators:
Shrub Stratum (Plot size: 30ft)				
1. Cephalanthus occidentalis (Common Buttonbush)	15	ves	OBL	
2.		<u></u>		2 – Dominance Test is > 50%
		<u></u>		$\boxed{\square}$ 3 – Prevalence Test is $\leq 3.0^1$
4				□ Problematic Hydrophytic Vegetation ¹ (Explain)
4.		no		
5		no		¹ Indicators of hydric soil and wetland hydrology must
6		no		be present, unless disturbed or problematic.
	15	= Total Cove	er	Definitions of Vegetation Strata:
50 % of total cover: 8	20 % c	of total cover:	3	
				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1. Phanopyrum gymnocarpon (Savannah-Panic Grass)	90	ves	OBI	(7.6 cm) or larger in diameter at breast height (DBH).
2.		<u></u>	001	Sanling Woody plants, excluding woody vines
3		<u></u>		approximately 20 ft (6 m) or more in height and less
3				than 3 in. (7.6 cm) DBH.
4		<u></u>		
5.		no		Shrub – Woody plants, excluding woody vines,
6		no		approximately 3 to 20 ft (1 to 6 m) in height.
7		no		
8		no		Herb – All herbaceous (non-woody) plants, including
9.		no		plants except woody vines less than approximately
10.		no		3 ft (1 m) in height.
11.				
	۵0	- Total Cov	٥r	Woody vine – All woody vines, regardless of height.
EO 0/ of total according AE	<u> </u>		10	
	20 % 0	n lotal cover:	10	.
Weady Vine Stratum (Distainer 2014)				
woody vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
I		no		Vegetation
2		no		
3		no	<u> </u>	.
4		no		.
5.		no		
	0	= Total Cov	er	
			 0	
	20 % 0	n Iolal Cover:	0	.
Remarks: (Include photo numbers here or on a separate	sheet.)			
	,			

SOIL								Sampling	Point:		5
Profile Desc	ription: (Describe	to the depth	needed to docu	ment the ind	licator or	confirm	the absence of	indicators.)		
Depth	Matrix		R	edox Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remarks		
0-20	10YR 3/2	95	10YR 3/6	5	С	PL	Silty Clay				
-											
-											
					·						
					<u> </u>						
					<u> </u>		<u> </u>				
							<u> </u>				
	opcontration D-Do	plation PM_E	Poducod Matrix (S-Covered (or Contod	Sand Gr	2 or	nation: DI -	Poro Lining	NA_NA	otriv
Type: C=C	oncentration, D=De		Reduced Mainx, C		or Coaled	Sanu Gra	ainsLoc		Pore Lining,		alfix.
Hydric Soil	Indicators:						Indicato	rs for Probl	ematic Hyd	dric S	oils³:
□ Histosol ((A1)		Delyvalue B	elow Surface	(S8) (LRF	R S, T, U)	<u> </u>	uck (A9) (LR	(R O)		
□ Histic Epi	ipedon (A2)		□ Thin Dark S	uface (S9) (L l	RR S , T, I	J)	🗌 2 cm Mi	uck (A10) (L	RR S)		
Black His	tic (A3)		Loamy Muc	ky Mineral (F1	1) (LRR O)	□ Reduce	d Vertic (F1	8) (outside	MLR	A 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matrix (F2	:)		□ Piedmo	nt Floodplaii	n Soils (F19) (L RI	R P, S, T)
□ Stratified	Layers (A5)		Depleted Ma	atrix (F3)			Anomal	ous Bright L	oamy Soils	(F20)	
🗆 Organic E	Bodies (A6) (LRR P	P, T, U)	Redox Dark	Surface (F6)			(MLR	A 153B)			
5 cm Muc	cky Mineral (A7) (Ll	RR P, T, U)	Depleted Da	ark Surface (F	7)		Red Par	rent Materia	l (TF2)		
Muck Pre	esence (A8) (LRR L	J)	Redox Depr	essions (F8)			□ Very Sh	allow Dark S	Surface (TF	12)	
🗆 1 cm Muo	ck (A9) (LRR P, T)		🗆 Marl (F10) (LRR U)			Other (E	Explain in Re	emarks)		
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	chric (F11) (M	LRA 151)						
□ Thick Da	rk Surface (A12)		□ Iron Mangar	nese Masses	(F12) (LR	R O, P, T) ³ Indiant	ara of Lludro	nhutio vono	totion	and
Coast Pra	airie Redox (A16) (I	MLRA 150A)	Umbric Surf	ace (F13) (LF	R P, T, U)	wetland	hvdrology n	nust be pres	sent i	anu Inless
□ Sandy M	ucky Mineral (S1) (LRR O, S)	Delta Ochrid	(F17) (MLR	A 151)		disturbe	d or probler	natic.	50m, t	
□ Sandy GI	eyed Matrix (S4)		Reduced Ve	ertic (F18) (MI	LRA 150A	, 150B)					
□ Sandy Re	edox (S5)		Piedmont Fl	oodplain Soils	s (F19) (M	ILRA 149	A)				
□ Stripped	Matrix (S6)		□ Anomalous	Bright Loamy	Soils (F2	0) (MLRA	149A, 153C, 1	53D)			
Dark Sur	face (S7) (LRR P, S	S, T, U)									
					T						
Restrictive I	_ayer (if observed):									
Type:			_		Hydri	c Soil Pr	esent?	Yes	\checkmark	No	
Depth (in	ches):		_		-			-		-	
Remarks:											
1											
1											
1											



Photo 21: Plot 5 - Soil sample



Photo 22: Plot 5 – Vegetation facing north Bread Bridge I-10



Photo 23: Plot 5 – Vegetation facing east





Photo 25: Plot 5 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	g Date: <u>06/07/2022</u>
Applicant/Owner: One Acadiana	State: LASam	pling Point: <u>6</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): <u>0</u>
Subregion (LRR or MLRA): LRR O Lat: 30.289	9763° Long: <u>-91.926827°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: R2UBH	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remarks	s.)
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circumstances" present	? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in R	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ☑ No □ Yes ☑ No □ Yes ☑ No □	Is the Sampled Area within a Wetland?	Yes	No
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators ((minimum of two required)
Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) 	ired: check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (I Hydrogen Sulfide Odc Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Other (Explain in Rem 37)	L RR U) or (C1) es on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7) marks)	 Surface Soil Crac Sparsely Vegetate Drainage Patterns Moss Trim Lines (Dry-Season Wate Crayfish Burrows Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Sphagnum moss 	ks (B6) ed Concave Surface (B8) s (B10) (B16) er Table (C2) (C8) on Aerial Imagery (C9) tion (D2) (D3) (D5) (LRR T, U)
Field Observations:				
Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Yes N	o ✓ Depth (inches):	Wetland Hydr	ology Present? Y	′es _ ☑ No _ □
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, prev	ious inspections), if avail	able:	
Remarks:				

Sampling Point

6

				Dominance rest worksheet.
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Carya aquatica (Water Hickory)	30	yes	OBL	That Are OBL, FACW, or FAC: 7 (A)
2. Triadica sebifera (Chinese Tallowtree)	20	ves	FAC	
3		<u></u>		Total Number of Dominant
A				Species Across All Strata: 7 (B)
+				-
5	<u> </u>	no		Porcent of Dominant Species
6		no		That Are OBLEACW or EAC: 100 (A/B)
	50	= Total Cov	/er	$\frac{1}{100}$
50 % of total cover: 25	20 % c	of total cover	· 10	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species <u>135</u> x 1 = <u>135</u>
1. Triadica sebifera (Chinese Tallowtree)	15	yes	FAC	FACW species 0 X 2 = 0
2.		no		FAC species 55 X 3 = 165
3.		no		
4		<u></u>		FACU species 0 X 4 = 0
				UPL species $0 \times 5 = 0$
D		no		$\frac{100}{(A)}$
6		no		$\begin{array}{c} \text{Column rotals.} \underline{150} (A) \underline{500} (B) \\ \hline \end{array}$
	15	= Total Cov	/er	
50 % of total cover: 8	20 % c	of total cover	3	Prevalence Index = P/A = -1.58
	20 /00		. <u> </u>	
				Hydrophytic Vegetation Indicators:
Snrup Stratum (Plot size: 30ft)				1 – Rapid Test for Hydrophytic Vegetation
1. Cephalanthus occidentalis (Common Buttonbush)	15	yes	OBL	$-\sqrt{2}$ - Dominance Test is $> 50\%$
2		no		
3.		no		$3 - Prevalence Test is \le 3.0^{\circ}$
4		<u></u>	-	Problematic Hydrophytic Vegetation ¹ (Explain)
				-
5		no		¹ Indicators of hydric soil and wetland hydrology must
6		no		be present, unless disturbed or problematic.
	15	= Total Cov	/er	Definitions of Vegetation Strata:
50 % of total cover: 8	20 % c	of total cover	· 3	Deminions of Vegetation of ata.
	20 /0 0			Tree – Woody plants, excluding woody vines
Llack Otrature (Distained 20th)				approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: <u>30ft</u>)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Phanopyrum gymnocarpon (Savannah-Panic Grass)	60	yes	OBL	-
2. Alternanthera philoxeroides (Alligator-Weed)	30	yes	OBL	Sapling – Woody plants, excluding woody vines,
3. Campsis radicans (Trumpet-Creeper)	10	no	FAC	approximately 20 ft (6 m) or more in height and less
4		<u></u>		than 3 in. (7.6 cm) DBH.
r				-
D		no		Shrub – Woody plants, excluding woody vines,
6		no		approximately 3 to 20 ft (1 to 6 m) in height.
7.		no		
8.		no		Herb – All herbaceous (non-woody) plants, including
Q		<u></u>		 herbaceous vines, regardless of size. Includes woody
		110		plants, except woody vines, less than approximately
10		no		_ 3 ft (1 m) in height.
11		no		
	100	= Total Cov	/er	woody vine – All woody vines, regardless of height.
50 % of total cover 50	20 % c	of total cover	· 20	
	20 %0			-
vvoody Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
1. Vitis rotundifolia (Muscadine)	10	yes	FAC	Vegetation
2.		no		Present? Yes <u></u> No
3	·	<u></u>		-l
				-
		10		-
4.		no		-
4 5				
4 5	10	= Total Cov	/er	
455.	10	= Total Cov	/er . 2	
4 5 50 % of total cover:5	10 20 % c	= Total Cov of total cover:	/er :2	-
4. 5	10 20 % c	= Total Cov	/er :2	-
4. 5	10 20 % c	= Total Cov	/er :2	-
4	10 20 % c sheet.)	= Total Cov	/er 2	-
4	10 20 % c	= Total Cov	/er 2	-
4	10 20 % c	= Total Cov	. <u>2</u>	-
4. 5	10 20 % c	= Total Cov	/er <u>2</u>	-
4. 5	20 % c	= Total Cov	/er :2	-
4. 5. 50 % of total cover: 5 Remarks: (Include photo numbers here or on a separate	20 % c	= Total Cov	/er :	_

SOIL								Sampling	Point:		6
Profile Description:	: (Describe t	o the depth	needed to doc	ument the ind	icator or cor	nfirm th	e absence of	indicators.)			
Depth	Matrix		F	Redox Features	S						
(inches) Colo	r (moist)	%	Color (moist)	%	Type ¹ Lo	\mathbf{c}^2			Remarks	5	
0-20 10)YR 4/2	95	10YR 4/6	5	С Р	L	Silty Clay				
-											
-											
-											
	<u> </u>										
¹ Type: C=Concentra	ation D=Dep'	letion RM=R	Reduced Matrix	CS=Covered o	or Coated Sar	nd Grair	ns ² Loc	ation: PI =P	ore Lining	M=M	atrix
	<u></u>			00 0010.000						, .	- 11 - 3
Hydric Soll Indicato	ors:			Delaw Curfage		T 10		rs for Proble	ematic Hy	aric S	olis":
				Below Surface	(58) (LRR 5,	1, 0)		ICK (A9) (LR	R U)		
	A2)				KK S, I, U)			ICK (А10) (Li	KK S)		
Black Histic (A3)				ску Mineral (F1) (LRR O)			a vertic (F18) (outside		4 150A,B)
Hydrogen Sulfide	(A4)			yea Matrix (F2))			ıτ ⊢loodplain	50IIS (F19	9) (LR	к Р, S, T)
Stratified Layers	(A5)		Depleted N	latrix (F3)				ous Bright Lo	bamy Soils	s (F20)	
Organic Bodies (A6) (LRR P,	T, U)	Redox Darl	k Surface (F6)	_`			A 153B)	(
	eral (A7) (LRI	R P, I, U)		ark Surface (F	7)		Red Par	ent Material	(1+2)	- 4 - 0)	
				ressions (F8)			very Sn	allow Dark S	Surface (1F	-12)	
		()						xpiain in Re	marks)		
Depleted Below I		(A11)		Chric (F11) (IM	LKA 151)	, , ,					
				inese Masses (), P, I)	³ Indicato	ors of Hydrop	ohytic vege	etation	and
	JOX (ATA) (11			iace (F13) (LR	$(\mathbf{R} \mathbf{P}, \mathbf{I}, \mathbf{U})$		wetland	hydrology m	ust be pre	esent, i	unless
	otrix (S4)	KK U, 3)		ortio (E19) (NILRA	DA 150A 16		disturbe		latic.		
	all IX (34)			Enic (FTO) (IVIL	. (E10) (MI D	A 140A	N N				
\Box Stripped Matrix (5) S6)			Bright Loamy			/ 494 153C 14	53D)			
Dark Surface (S7		тш		Digit Louiny	00110 (1 20) (1		-57, 1000, 1	<i>(()<i>()()()<i>()()()()()<i>()()()()<i>()()()<i>()()()<i>()()()<i>()()()<i>()()()<i>()()()<i>()()()<i>()()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()<i>()()<i>()()<i>()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()()<i>()<i>()()<i>()()<i>()<i>()()<i>()()<i>()<i>()()<i>()<i>()()<i>()<i>()()<i>()()<i>()<i>()()<i>()()<i>()()<i>()()<i>()<i>()<i>()()<i>()()<i>()<i>()()<i>()<i>()<i>()()<i>()()<i>()<i>()()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>()<i>(</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>			
	, (, 0,	., .,									
Destriction Lange ("	(. l				T						
Restrictive Layer (in	i observed):										
Danth (inch co)			_		Hydric Se	oil Pres	ent?	Yes	\checkmark	No	
Deptn (Inches):			_								
Remarks:											







Photo 28: Plot 6 – Vegetation facing east





Photo 30: Plot 6 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Samplir	ng Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASa	mpling Point: 7
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Ridge	Local relief (concave, convex, none): Convex	Slope (%): <u>1-3</u>
Subregion (LRR or MLRA): LRR O Lat: 30.289	9936° Long: <u>-91.926524°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remark	(S.)
Are Vegetation, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circumstances" preser	nt? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in F	Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes □ No ☑ Yes □ No ☑ Yes □ No ☑	Is the Sampled Area within a Wetland?	Yes	No
Remarks: -				
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (I) Hydrogen Sulfide Odc Oxidized Rhizosphere Presence of Reduced Recent Iron Reductior Thin Muck Surface (C) Other (Explain in Rem	_RR U) or (C1) is on Living Roots (C3) Iron (C4) in in Tilled Soils (C6) 7) parks)	Secondary Indicators Surface Soil Cra Sparsely Vegeta Drainage Pattern Moss Trim Lines Dry-Season Wai Crayfish Burrow Saturation Visibl Geomorphic Pos Shallow Aquitard FAC-Neutral Tes Sphagnum moss	(minimum of two required) acks (B6) ated Concave Surface (B8) ns (B10) s (B16) ter Table (C2) s (C8) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) s (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Image: Depth (inches):	Wetland Hydr	ology Present?	Yes 🗌 No 💆
Remarks:				

Г

its.			Sampling Point
			Dominance Test worksheet:
ute	Dominant	Indicator	

				Dominance Test worksheet:			
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species			
1. Prunus serotina (Black Cherry)	35	yes	FACU	That Are OBL, FACW, or FAC: (A)			
2. Quercus nigra (Water Oak)	20	yes	FAC				
3		no		Total Number of Dominant			
4		no		Species Across All Strata. 0 (B)			
5		no		Barcant of Dominant Spacios			
6		no		That Are OBL, FACW, or FAC: 50 (A/B)			
	55	= Total Cov	ver				
50 % of total cover: 28	20 % 0	of total cover:	11	Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapling Stratum (Plot size: 30ft)				OBL species 0 x 1 = 0			
1. Prunus serotina (Black Cherry)	15	yes	FACU	FACW species 10 X 2 = 20			
2.		no		FAC species 75 $X_3 = -225$			
3.		no					
4.		no		FACU species 95 X 4 = 380			
5.		no		UPL species 0 X 5 = 0			
6.		no		Column Totals: <u>180</u> (A) <u>625</u> (B)			
	15	= Total Cov	/er				
50 % of total cover: 8	20 % (of total cover	3	Prevalence Index = P/A = -3.47			
	20 /0 0			Prevalence index = B/A = 5.47			
Shrub Stratum (Plot size: 30ft)				Hydrophytic Vegetation Indicators:			
1. Callicarpa americana (American Beauty-Berry)	15	Ves	FACU	1 – Rapid Test for Hydrophytic Vegetation			
2 Sambucus nigra (Black Elder)	10	<u>yes</u>		2 – Dominance Test is > 50%			
	10	<u>yes</u>	FACW	\Box 3 – Prevalence Test is $\leq 3.0^1$			
۸		<u></u>		Problematic Hydrophytic Vegetation ¹ (Explain)			
4		no					
5		no		¹ Indicators of hydric soil and wetland hydrology must			
6		no		be present, unless disturbed or problematic.			
	25	= Total Cov	ver	Definitions of Vegetation Strata:			
50 % of total cover: 13	20 % c	of total cover:	5				
				I ree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in			
Herb Stratum (Plot size: <u>30ft</u>)				(7.6 cm) or larger in diameter at breast height (DBH)			
1. Oplismenus hirtellus (Long-Leaf Basket Grass)	35	yes	FAC				
2. Parthenocissus quinquefolia (Virginia-Creeper)	30	yes	FACU	Sapling – Woody plants, excluding woody vines,			
3		no		approximately 20 ft (6 m) or more in height and less			
4		no		than 3 ln. (7.6 cm) DBH.			
5		no		Shrub – Woody plants, excluding woody vines.			
6.		no		approximately 3 to 20 ft (1 to 6 m) in height.			
7.		no					
8.	·	no		Herb – All herbaceous (non-woody) plants, including			
9.		no		nerbaceous vines, regardless of size. Includes woody			
10.	·	 no		3 ft (1 m) in height.			
11.		 no					
	65	= Total Cov	/er	Woody vine – All woody vines, regardless of height.			
50 % of total cover: 33	20 %	of total cover	13				
	20 %0		10	·			
Woody Vine Stratum (Plot size: 30ft)							
1 Vitis rotundifolia (Muscadine)	20	VAC	FAC	Hydrophytic Vegetation			
2		<u>yes</u>		Present? Yes D No			
3	·						
۵	·	110		•			
т Б		110		•			
J		<u>no</u>					
	20	= Total Cov	/er				
50 % of total cover:10	20 % c	of total cover:	4				
Dementer (Include plate construct)	-		_				
Remarks: (Include photo numbers here or on a separate	sheet.)						

7

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SUI

Depth	Matrix		Re		- 1					_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				Remar	ks	
0-10	10YR 3/3	100		0			Silty Clay					
10-20	7.5YR 4/6	100		0			Silty Clay					
-												
-												
-												
						·						
-					<u> </u>	<u> </u>						
-						·						
ype: C=C	oncentration, D=De	oletion, RM=	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains.	² Locatior	n: PL=F	Pore Linii	ng, M=N	latrix.
ydric Soil	Indicators:						Indic	ators fo	r Probl	ematic H	lydric S	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surface	e (S8) (LF	RR S, T, U)	<u> </u>	n Muck (A9) (LR	R 0)		
☐ Histic Ep	ipedon (A2)		□ Thin Dark Su	ıface (S9) (L	.RR S, T,	U)	2 cn	n Muck (A10) (L	RR S)		
Black His	stic (A3)		□ Loamy Muck	y Mineral (F	1) (LRR (0)	□ Red	uced Ve	rtic (F18	3) (outsi	de MLR	A 150A
Hydrogei	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2	2)		□ Piec	mont Flo	oodplair	n Soils (F	19) (LR	R P, S,
Stratified	Layers (A5)		Depleted Ma	trix (F3)			□ Ano	malous E	Bright Lo	oamy So	ils (F20)
Organic I	Bodies (A6) (LRR P	, T, U)	<u> </u>	Surface (F6))		(MLRA 15	53B)			
<u>]</u> 5 cm Mu	cky Mineral (A7) (LF	R P, T, U)	Depleted Da	rk Surface (F	F7)		□ Red	Parent I	Material	(TF2)		
Muck Pre	esence (A8) (LRR U)	Redox Depresentation	essions (F8)			□_Very	/ Shallov	v Dark S	Surface (TF12)	
_1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			□ Othe	ər (Expla	in in Re	emarks)		
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11) (₩	ILRA 15	1)						
Thick Dark Surface (A12)			□ Iron Manganese Masses (F12) (LRR O, P, T) ³ Indicators of Hydrophytic vogetation and									
Thick Da	rk Surface (A12)		□ Iron Mangan	ese Masses	(F12) (L	RR 0, P, T) ³ Ind	icators o	f Hydroi	nhvtic ve	netation	and
☐ Thick Da ☐ Coast Pr	rk Surface (A12) airie Redox (A16) (N	/LRA 150A)	□ Iron Mangan □ Umbric Surfa	ese Masses ice (F13) (Lf	(F12) (L RR P, T,	RR O, P, T U)	³ Ind wetl	icators o and hydr	f Hydroj ology m	phytic ve nust be p	getatior resent,	unless
☐ Thick Da ☐ Coast Pr ☐ Sandy M	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I	ILRA 150A) .RR O, S)	□ Iron Mangan □ Umbric Surfa □ Delta Ochric	ese Masses ace (F13) (Lf (F17) (MLR	(F12) (L RR P, T, A 151)	RR O, P, T U)) ³ Ind wetl distu	icators o and hydr urbed or	f Hydroj ology n problen	phytic ve nust be p natic.	getatior present,	unless
☐ Thick Da ☐ Coast Pra] Sandy M] Sandy G	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4)	ILRA 150A) .RR O, S)	□ Iron Mangan □ Umbric Surfa □ Delta Ochric □ Reduced Ver	ese Masses ace (F13) (Lf (F17) (MLR rtic (F18) (M	(F12) (L RR P, T, A 151) LRA 150	RR O, P, T U) A, 150B)) ³ Ind wetl distu	icators o and hydr urbed or	f Hydroj ology n problen	phytic ve nust be p natic.	getatior present,	unless
Thick Da Coast Praid Sandy M Sandy G Sandy Red	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5)	ILRA 150A) .RR O, S)	Iron Mangan Umbric Surfa Delta Ochric Reduced Vei Piedmont Flc	ese Masses ace (F13) (Lf (F17) (MLR rtic (F18) (M podplain Soil	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (RR O, P, T U) A, 150B) MLRA 149) ³ Ind wetl distu	icators o and hydr urbed or	f Hydro ology n problen	phytic ve nust be p natic.	getatior present,	i and unless
Thick Da Coast Prince Sandy M Sandy G Sandy Rest Sandy Rest Stripped	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6)	ILRA 150A) .RR O, S)	Iron Mangan Umbric Surfa Delta Ochric Reduced Vei Piedmont Flc Anomalous E	ese Masses ace (F13) (LF (F17) (MLR rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (/ Soils (F	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA) ³ Ind weti distu A) 149A, 1536	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	i and unless
Thick Da Coast Pr Sandy M Sandy G Sandy G Sandy R Cathered Cathered	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	ILRA 150A) .RR O, S) 5, T, U)	Iron Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flc Anomalous E	ese Masses ace (F13) (LF (F17) (MLR (F18) (M podplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (/ Soils (F)	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA	 ³Ind wetl distu A) 149A, 1536 	icators o and hydr urbed or C, 153D)	f Hydro _l ology n problen	phytic ve nust be p natic.	getatior resent,	i and unless
Thick Da Coast Pr. Sandy M Sandy G Sandy R Sandy R Carbon Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	ILRA 150A) .RR O, S) ., T, U)	Iron Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flc Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M podplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (/ Soils (F)	RR O, P, T U) A, 150B) MLRA 149, 20) (MLRA	 ³Ind wetl dist. A) 149A, 1536 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	unless
Thick Da Coast Pr. Sandy M Sandy G Sandy Re Sandy Re Dark Sur Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	ILRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flc ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I / Soils (F:	RR O, P, T U) A, 150B) MLRA 149. 20) (MLRA	 ³Ind wetl distu A) 149A, 153(icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior	unless
Thick Da Coast Pr. Sandy M Sandy G Sandy G Sandy Rd Dark Sur Dark Sur stripped Dark Sur Depth (in	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F2 Hydi	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA 	 ³Ind wetl dist. A) 149A, 1530 esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen Yes	phytic ve nust be p natic.	getatior resent, _ No	
Thick Da Coast Pr. Sandy M Sandy G Sandy Ro Sandy Ro Dark Sur Dark Sur strictive I Type: Depth (in	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) 5, T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (7 Soils (F Hydr	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA ric Soil Pre	 ³Ind wetl dist. A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen Yes _	phytic ve hust be p hatic.	getatior resent,	n and unless
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Sandy Rd Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (7 Soils (F Hydi	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA 20) (MLRA	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydro _l ology n problen	phytic ve hust be p hatic.	getatior resent,	n and unless
Thick Da Coast Pr Sandy M Sandy G Sandy G Sandy R Sandy R Control Stripped Dark Sur	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) 5, T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F)	RR O, P, T U) A, 150B) MLRA 149. 20) (MLRA ric Soil Pre	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydro _l ology n problen	phytic ve hust be p hatic.	getatior resent,	n and unless
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Sandy R DStripped Dark Sur estrictive I Type: Depth (in emarks:	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flc ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA ric Soil Pre	/ ³ Ind wetl distu A) 149A, 153(esent?	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Stripped Dark Sur estrictive I Type: Depth (in emarks:	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	/ ³ Ind wetl distu A) 149A, 153(icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve nust be p natic.	getatior resent,	
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Control Stripped Dark Sur estrictive I Type: Depth (in emarks:	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ;, T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flc ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I / Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve nust be p natic.	getatior resent,	I and unless ☑
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Control Stripped Dark Sur Control Contro Control Control Control Control Co	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	/ILRA 150A) .RR O, S) ;, T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flc ☐ Anomalous E	ese Masses ace (F13) (L F (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	/ ³ Ind weti distu A) 149A, 1530	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	I and unless ✓
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Tandy G Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	/ILRA 150A) .RR O, S) ; ;	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (Lf (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F:	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	/ ³ Ind weti distu A) 149A, 1530	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	I and unless
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	/ILRA 150A) .RR O, S) 5, T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149. 20) (MLRA	 ³Ind wetl dist. A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve nust be p natic.	getatior resent,	I and unless
Thick Da Coast Pr. Sandy M Sandy G Sandy Ro Dark Sur estrictive I Type: Depth (in emarks:	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	/ILRA 150A) .RR O, S) 	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (i 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	 ³Ind wetl dist. A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve hust be p hatic.	_ No	I and unless
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Control Stripped Dark Sur	rk Surface (A12) airie Redox (A16) (N ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	/ILRA 150A) .RR O, S) 	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (i 7 Soils (F)	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA	/ ³ Ind weti distu A) .149A, 153(icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve hust be p hatic.	getatior resent,	I and unless
Thick Da Coast Pr Sandy M Sandy G Sandy G Control Sandy R Control Stripped Dark Sur	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	MLRA 150A) .RR O, S) 	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (i 7 Soils (F Hydi	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA	/ ³ Ind weti distu A) .149A, 153(icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve hust be p hatic.	_ No	I and unless
Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy G Total Sandy Re Control Stripped Dark Sur	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	ILRA 150A) .RR O, S) ., T, U)	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (7 Soils (F Hyd	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problen	phytic ve hust be p hatic.	_ No	
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Thick Da Thick Da Coast Pr Sandy M Sandy G Sandy R Total Stripped Dark Sur	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	MLRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F Hydi	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve hust be p hatic.	getatior resent,	
 Thick Da Coast Pr. Sandy M Sandy G Sandy Rd Stripped Dark Sur estrictive I Type: Depth (in emarks: 	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	MLRA 150A) .RR O, S) ., T, U) :	☐ Iron Mangan ☐ Umbric Surfa ☐ Delta Ochric ☐ Reduced Ver ☐ Piedmont Flo ☐ Anomalous E	ese Masses ace (F13) (L f (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F Hydi	RR O, P, T U) A, 150B) MLRA 149 20) (MLRA	 ³Ind wetl distu A) 149A, 153(esent? 	icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve hust be p hatic.	_ No	
 Thick Da Coast Pr. Sandy M Sandy G Sandy Re Stripped Dark Sur estrictive I Type: Depth (in emarks: 	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed) nches):	MLRA 150A) .RR O, S) ; ;	□ Iron Mangan □ Umbric Surfa □ Delta Ochric □ Reduced Ver □ Piedmont Flo □ Anomalous E	ese Masses lace (F13) (L F (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F Hydi	RR O, P, T, U) A, 150B) MLRA 149, 20) (MLRA ric Soil Pre	 ³Ind wetl distudistudistudistudistudistudistudistu	icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve hust be p hatic.	_ No	
 Thick Da Coast Pr. Sandy M Sandy G Sandy Rd Stripped Dark Sur estrictive I Type: Depth (in emarks: 	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) (I leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed) aches):	MLRA 150A) .RR O, S) ; ;	□ Iron Mangan □ Umbric Surfa □ Delta Ochric □ Reduced Ver □ Piedmont Flo □ Anomalous E	ese Masses ace (F13) (L F (F17) (MLR , rtic (F18) (M bodplain Soil Bright Loamy	(F12) (L RR P, T, A 151) LRA 150 Is (F19) (I 7 Soils (F: Hydi	RR O, P, T U) A, 150B) MLRA 149. 20) (MLRA ric Soil Pre	/ ³ Ind wetl distu A) 149A, 153(icators o and hydr urbed or C, 153D)	f Hydroj ology n problem	phytic ve nust be p natic.	_ No	I and unless ☑



Photo 31: Plot 7 - Soil sample



Photo 32: Plot 7 – Vegetation facing north



Photo 33: Plot 7 – Vegetation facing east





Photo 35: Plot 7 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASam	pling Point: <u>8</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): <u>None</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.28	9844° Long: <u>-91.925707°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remarks.	.)
Are Vegetation, Soil, or Hydrologysignificantly distu	Irbed? Are "Normal Circumstances" present?	? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Re	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Image: Marcology No Image: Marcology Yes Image: Marcology No Image: Marcology Yes Image: Marcology No Image: Marcology	Is the Sampled Area within a Wetland?	Yes No V
Remarks: -			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>check all that apply)</u> Aquatic Fauna (B13) Marl Deposits (B15) (I Hydrogen Sulfide Odc Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Other (Explain in Rem	LRR U) or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) :7) narks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Yes	Image: Depth (inches):	Wetland Hydr	ology Present? Yes 🗌 No 🗹
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, prev	vious inspections), if avail	able:
Remarks:			

Tree Stratum

2. 3.

4. 5.

1. Quercus nigra (Water Oak)

				Dominance Test worksheet:
ee Stratum (Plot size: <u>30ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
Quercus nigra (Water Oak)	65	yes	FAC	That Are OBL, FACW, or FAC:
Liquidambar styraciflua (Sweet-Gum)	15	no	FAC	
		no		Total Number of Dominant
		no		Species Across All Strata:
		no		

Percent of Dominant Species 6. no That Are OBL, FACW, or FAC: 75 (A/B) 80 = Total Cover 50 % of total cover: 40 20 % of total cover: 16 Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling Stratum (Plot size: 30ft) **OBL** species 0 0 x 1 = 1. Quercus nigra (Water Oak) 20 FAC yes FACW species 5 X 2 = 10 2. Fraxinus pennsylvanica (Green Ash) 5 FACW yes FAC species 210 X 3 = 630 3. no FACU species 35 X 4 = 140 4. no **UPL** species 0 X 5 =0 5. no Column Totals: 250 (A) 780 (B) 6 no 25 = Total Cover 50 % of total cover: 13 20 % of total cover: 5 3.12 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Shrub Stratum (Plot size: 30ft) □ 1 – Rapid Test for Hydrophytic Vegetation 1. Ilex vomitoria (Yaupon) 10 FAC ves ☑ 2 – Dominance Test is > 50% 2. no \Box 3 – Prevalence Test is $\leq 3.0^1$ 3. no □ Problematic Hydrophytic Vegetation¹ (Explain) 4. no 5. no ¹Indicators of hydric soil and wetland hydrology must 6. no be present, unless disturbed or problematic. 10 = Total Cover **Definitions of Vegetation Strata:** 50 % of total cover: 5 2 20 % of total cover: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. Herb Stratum (Plot size: 30ft) (7.6 cm) or larger in diameter at breast height (DBH). 1. Oplismenus hirtellus (Long-Leaf Basket Grass) 65 yes FAC Campsis radicans (Trumpet-Creeper) 2. 35 yes FAC Sapling - Woody plants, excluding woody vines, 3. Parthenocissus quinquefolia (Virginia-Creeper) 25 FACU approximately 20 ft (6 m) or more in height and less yes than 3 in. (7.6 cm) DBH. 4. no 5. no Shrub - Woody plants, excluding woody vines, 6. no approximately 3 to 20 ft (1 to 6 m) in height. 7. no Herb - All herbaceous (non-woody) plants, including 8. no herbaceous vines, regardless of size. Includes woody 9. no plants, except woody vines, less than approximately 10 3 ft (1 m) in height. no 11 no Woody vine - All woody vines, regardless of height. 125 = Total Cover 50 % of total cover: 63 20 % of total cover: 25 Woody Vine Stratum (Plot size: <u>30ft</u>) Hydrophytic 1. Parthenocissus quinquefolia (Virginia-Creeper) 10 Vegetation ves FACU \checkmark Present? Yes No 2. no 3. no 4. no 5. no

10

5

= Total Cover

20 % of total cover:

2

Remarks: (Include photo numbers here or on a separate sheet.)

50 % of total cover:

Sampling Point

6

8

(A)

(B)

SOIL					S	Sampling F	Point:		8
Profile Description	: (Describe	to the depth	needed to document the indi	cator or confirm the	absence of ind	icators.)			
Depth	Matrix		Redox Features			-			
(inches) Colo	or (moist)	%	Color (moist) %	Type ¹ Loc ²			Remarks		
0-20 10	DYR 4/4	100	0						
-									
-									
- <u>-</u>									
<u> </u>									
-									
-									
¹ Type: C=Concentra	ation, D=Dep	oletion, RM=F	Reduced Matrix, CS=Covered o	r Coated Sand Grains	s. ² Locatio	n: PL=Pa	ore Lining,	, M=M	atrix.
Hydric Soil Indicate	ors:				Indicators f	or Proble	matic Hy	dric S	oils³:
Histosol (A1)			Polyvalue Below Surface ((S8) (LRR S, T, U)	□ 1 cm Muck	(A9) (LRF	· ۲0)		
☐ Histic Epipedon ((A2)		□ Thin Dark Suface (S9) (LF	R S, T, U)	2 cm Muck	(A10) (LR	(R S)		
Black Histic (A3)	()		Loamy Mucky Mineral (F1) (LRR O)	Reduced Ventor	ertic (F18)	outside	MLR	A 150A.B)
U Hydrogen Sulfide	e (A4)		Loamy Gleved Matrix (F2)	/(/	Piedmont F	loodplain	Soils (F19)) (LRI	R P. S. T)
□ Stratified Lavers	(A5)		Depleted Matrix (F3)			Bright I o	amv Soils	(F20)	, -, . ,
Organic Bodies ((A6) (I RR P	τ. υ)	\square Redox Dark Surface (F6)		(MI RA 1	53B)		(0)	
\square 5 cm Mucky Mine	eral (A7) (I R	RPTIN	Depleted Dark Surface (F)	7)	□ Red Parent	Material ((TF2)		
	(A8) (I RR II)	, , , , , , , , , , , , , , , , , , , 	\square Redax Depressions (F8)		U Very Shallo	w Dark Si	urface (TE	12)	
\square 1 cm Muck (A9)		,			Other (Evol	ain in Ren	marke)	12)	
	Dark Surface	(A11)	Depleted Ochric (E11) (MI	PA 151)			nanxs)		
Depicted Below 1 Thick Dark Surfa		(411)							
	dov (A16) (N	II PA 150A)		P P T II	³ Indicators	of Hydrop	hytic vege	etation	and
	noral (S1) (I	PPOS		151)	disturbed or	rology mu	ust be pre	sent, l	inless
	atrix (S4)			RA 150A 150B)		probleme			
	5)		$\square \text{ Reduced Venic (FT0) (WLRA 130A, 130B)}$						
	5) Se)		Pledmont Floodplain Solis (F19) (MLRA 149A)						
	30) 7) (1000 6	T 10			49A, 133C, 133D)			
) (LKK F, 3	, 1, 0)							
Restrictive Layer (i	f observed)								
Туре:				Hydric Soil Prese	ent?	Yes		No	\checkmark
Depth (inches):			_						
Remarks:									







Photo 38: Plot 8 – Vegetation facing east





Photo 40: Plot 8 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: St. Martin Parish Sampling Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LA Sampling Point: 9
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>
Landform (hillslope, terrace, etc.) Flat Lo	cal relief (concave, convex, none): <u>None</u> Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.29065	5° Long: <u>-91.925107°</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes 🗹 No 🗌 (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes D No D Yes No D Yes No D	Is the Sampled Area within a Wetland?	Yes No V
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Gradient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (L Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Thin Muck Surface (C7 Other (Explain in Rema	RR U) r (C1) s on Living Roots (C3) Iron (C4) in Tilled Soils (C6) 7) arks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	 ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): 	Wetland Hydro	ology Present? Yes 🗌 No 🗹
Remarks:			
Sampling Point	9		
----------------	---		

				Dominance Test worksheet:
Trop Stratum (Plat aiza: 20ft)	Absolute	Dominant Species2	Indicator	
riee Stratum (Piot size. <u>3011</u>)	% Cover	Species?	Status	Number of Dominant Species
1		no		Inat Are OBL, FACW, or FAC: I (A)
2		no		
3		no		I otal Number of Dominant
4		no		Species Across All Strata: $\underline{2}$ (B)
5.		no		
6.		no		Percent of Dominant Species
	0	= Total Co	ver	- That Are OBL, FACW, or FAC: <u>50</u> (A/B)
50 % of total cover: 0	20 % (of total cover	. 0	Prevalence Index worksheet:
			·	Total % Cover of: Multiply by:
Sanling Stratum (Plot size: 30ft)				OBI species 0 x 1 = 0
1		no		
·				FACW species 0 X 2 = 0
2.		no		- FAC species 70 X 3 = 210
3		no		- FACU species 70 X 4 = 280
4.		no		
5		no		
6.		no		Column I otals: <u>140</u> (A) <u>490</u> (B)
	0	= Total Co	ver	-
50 % of total cover: 0	20 % (of total cover	: 0	Prevalence Index – $R/A = 3.5$
Shrub Stratum (Plot size: 30ft)				Hydrophytic Vegetation Indicators:
1.		no		1 – Rapid Test for Hydrophytic Vegetation
2				2 – Dominance Test is > 50%
2		10		□ 3 – Prevalence Test is $\leq 3.0^1$
3.		no		Problematic Hydrophytic Vegetation ¹ (Explain)
4		no		
5		no		¹ Indicators of hydric soil and wotland hydrology must
6.		no		he present unless disturbed or problematic
	0	= Total Co	ver	Definitions of Vegetation Strata:
50 % of total cover: 0	20 % (of total cover	0	Demitions of Vegetation Strata.
	20 /00		•	- Tree – Woody plants, excluding woody vines.
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1 Trifelium reports (White Clover)	70		FACU	(7.6 cm) or larger in diameter at breast height (DBH).
		yes	FACU	-
2. Ambrosia trifida (Great Ragweed)		yes	FAC	Sapling – Woody plants, excluding woody vines,
3. Coreopsis functoria (Golden Lickseed)	25	no	FAC	approximately 20 ft (6 m) or more in neight and less
4. Rumex crispus (Curly Dock)	15	no	FAC	- l lian 5 m. (7.6 cm) DBH.
5		no		Shrub – Woody plants, excluding woody vines.
6.		no		approximately 3 to 20 ft (1 to 6 m) in height.
7.		no		
8.				Herb – All herbaceous (non-woody) plants, including
0				herbaceous vines, regardless of size. Includes woody
5				_ plants, except woody vines, less than approximately
10		no		$\frac{1}{3}$ ft (1 m) in height.
11		no		Woody vine - All woody vines regardless of height
	140	= Total Co	ver	woody vine – All woody vines, regardless of height.
50 % of total cover: 70	20 % c	of total cover	: 28	
Woody Vine Stratum (Plot size: 30ft)				Hydrophytic
1.		no		Vegetation
2.		no		Present? Yes 🗆 No 🗹
3				-
٠				-
۳		110		-
D		no		-
	0	= Total Co	ver	
50 % of total cover: 0	20 % c	of total cover	. 0	
				-
Remarks: (Include photo numbers here or on a separat	e sheet.)			

SOIL								Samplir	ng Point:		9
Profile Des	cription: (Describe	to the depth	needed to docu	ment the ind	dicator o	r confirm	the absence of	of indicator	s.)		
Depth	Matrix		R	edox Feature	es				- /		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	·		Rema	arks	
0-20	10YR 3/2	95	5YR 5/8	5	С	М	Silty Clay				
-											
-											
-											
-											
-											
-											
_											
		<u>. </u>			<u> </u>						
¹ Type: C=C	oncentration, D=Dep	oletion, RM=R	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² Lo	cation: PL	=Pore Lin	ing, M=I	Matrix.
			· · · ·				la l'act				0 - 11 - 3
Hydric Soli	Indicators:				(00) (1 -		Indicat	ors for Pro		Hydric	Solis":
	(A1)		Polyvalue B	elow Surface	e (S8) (L F	R S, T, U)		luck (A9) (L	.RR O)		
□ Histic Ep	ipedon (A2)		□ Thin Dark S	uface (S9) (L	.RR S, T,	U)	<u> </u>	1uck (A10)	(LRR S)		
<u> </u>	stic (A3)		<u> Loamy Mucl</u>	ky Mineral (F	1) (LRR)	0)	Reduc	ed Vertic (F	18) (outs	ide MLF	RA 150A,B)
□ Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F2	2)		□ Piedm	ont Floodpla	ain Soils (F19) (LF	RR P, S, T)
□ Stratified	Layers (A5)		Depleted Ma	atrix (F3)			Anoma	alous Bright	Loamy S	oils (F20))
Organic	Bodies (A6) (LRR P	, T, U)	☑ Redox Dark	Surface (F6))		(ML	RA 153B)			
5 cm Mu	cky Mineral (A7) (LF	R P, T, U)	Depleted Da	ark Surface (I	F7)		□ Red Pa	arent Mater	al (TF2)		
Muck Pre	esence (A8) (LRR U)	Redox Depr	essions (F8)			□ Very S	hallow Dark	Surface	(TF12)	
🗆 1 cm Mu	ck (A9) (LRR P, T)	-	□ Marl (F10) (LRR U)			□ Other	Explain in I	Remarks)	. ,	
Depleted	Below Dark Surface	e (A11)		hric (F11) (N	ILRA 15 [.]	1)			,		
□ Thick Da	rk Surface (A12)	()	□ Iron Mangar	nese Masses	(F12) (L	, RR O. P. 1	[) 3				
Coast Pr	airie Redox (A16) (N	(LRA 150A)	Umbric Surf	ace (F13) (L		U)	' Indica	tors of Hyd	ophytic v	egetatio	n and
□ Sandv M	ucky Mineral (S1) (L	RR O. S)	Delta Ochric	: (F17) (MLR	A 151)	-,	disturb	ed or proble	ematic.	present,	uniess
□ Sandy G	leved Matrix (S4)			ertic (F18) (M	I RA 150	A 150B)					
□ Candy C	dox (S5)			oodolain Soi	ERA 100	MI PA 140	201				
	Matrix (S6)			Bright Loam			1/0A 153C	153D)			
	face (S7) /I PP P S	TIN		Bright Loaning			, 1454, 1550,	1550)			
		, 1, 0)									
Restrictive	Layer (if observed)	:									
Type:					Hvd	ric Soil Pr	acont?	Voc	J	No	
Depth (ir	iches):				iiyu		esent:	163			
Pomarka:	· · · · · · · · · · · · · · · · · · ·										
Remarks.											





Photo 42: Plot 9 – Vegetation facing north Breaux Bridge I-10 Site



Photo 43: Plot 9 – Vegetation facing east





Photo 45: Plot 9 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: St. Martin Parish Sampling Date: 06/0)7/2022
Applicant/Owner: One Acadiana	State: LA Sampling Point:	10
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None Slope (%)): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.2921	166° Long: <u>-91.922601°</u> Datum: <u>'</u>	WGS 84
Soil Map Unit Name: Dundee silt Ioam	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🔽 No 🗌 (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present? Yes	ZNo
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Remarks.)	

		3 1 1 1	
Hydrophytic Vegetation Present?	Yes 🗌 No 🗹	ls the Samnled Area	
Hydric Soil Present?	Yes 🗌 No 🗹	within a Wetland?	Yes No V
Wetland Hydrology Present?	Yes 🗌 No 🗹		
Remarks:			
-			
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)	Aquatic Fauna (B13)		□ Sparsely Vegetated Concave Surface (B8)
High Water Lable (A2)	☐ Mari Deposits (B15) (I	_RR U)	□ Drainage Patterns (B10)
□ Water Marks (B1)	Oxidized Rhizosphere	s on Living Roots (C3)	□ Dry-Season Water Table (C2)
□ Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction	n in Tilled Soils (C6)	□ Saturation Visible on Aerial Imagery (C9)
□ Algal Mat or Crust (B4)	□ Thin Muck Surface (C	7)	□ Geomorphic Position (D2)
Iron Deposits (B5)	☐ Other (Explain in Rem	arks)	□ Shallow Aquitard (D3)
□ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9)			\square Sphagnum moss (D8) (LRR T. U)
Field Observations:			
Surface Water Present? Yes 🔲 No 🔄	✓ Depth (inches):		
Water Table Present? Yes 🔲 No 🤄	✓ Depth (inches):		
Saturation Present? Yes 🔲 No 🤄	Depth (inches):	wetland Hydr	ology Present? Yes 🛄 No 💌
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, prev	ious inspections), if avail	able:
	ing ren, aena pretes, pret		
Remarks:			

г

Sampling Point

10

Tree Stratum (Plot size: <u>30ft</u>) 1 2 3 4 5 5 50 % of total cover: (Sapling Stratum (Plot size: <u>30ft</u>) 1)	Absolute <u>% Cover</u>	no no no no no no no no no no no no no n		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species
1.		no no no no no no no e Total Co	·	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species
2. 2. 3. 4. 5. 5. 50 % of total cover:(Sapling Stratum (Plot size:30ft) 1. 2.	0 0 20 % (no no no no no = Total Co		Total Number of Dominant Species Across All Strata: Percent of Dominant Species
3. 4. 5 5 5 50 % of total cover:(Sapling Stratum (Plot size:30ft) 1	0 0 20 % (<u>no</u> <u>no</u> <u>no</u> = Total Co		Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species
4	0 20 % (<u>no</u> <u>no</u> = Total Co		Percent of Dominant Species
5	0 20 % (no no = Total Co		Percent of Dominant Species
50 % of total cover:(Sapling Stratum (Plot size: <u>30ft</u>) 	0) 20 % (no = Total Co		Percent of Dominant Species
50 % of total cover:(Sapling Stratum (Plot size: <u>30ft</u>) I	0) 20 % (= Total Co		•
50 % of total cover: Sapling Stratum (Plot size: <u>30ft</u>) I) 20%			That Are OBL, FACW, or FAC: 0 (A/B)
Sapling Stratum (Plot size: <u>30ft</u>)	<u> </u>	af tatal assus	wer 0	Drevelance index workshoot.
Sapling Stratum (Plot size: <u>30ft</u>) I		of total cove	r: <u> </u>	Total % Cover of: Multiply by:
2				
·		no		$OBL species 0 \qquad x = 0$
···		<u> </u>	•	$\frac{1}{10000000000000000000000000000000000$
		<u> </u>	•	FAC species 30 X 3 = 90
		<u> </u>	•	FACU species 90 X 4 = 360
·		<u> </u>		UPL species 0 X 5 = 0
··		<u> </u>		Column Totals: 120 (A) 450 (B)
				-
				5
50 % of total cover:	20%	or total cove	r: <u> </u>	Prevalence Index = B/A = 3.75
Chrub Stratum (Diat aize: 20th)				Hydrophytic Vegetation Indicators:
oniuo onatumi (Piot size: <u>3011)</u>		20		1 – Rapid Test for Hydrophytic Vegetation
··			·	□ 2 – Dominance Test is > 50%
				□ 3 – Prevalence Test is $\leq 3.0^{1}$
)		<u>no</u>		Problematic Hydrophytic Vegetation ¹ (Explain)
		no		-
		no		Indicators of hydric soil and wetland hydrology must
)		<u>no</u>		- be present, unless disturbed or problematic.
	0	= Total Co	ver	Definitions of Vegetation Strata:
50 % of total cover:	<u>)</u> 20 % (of total cove	r: 0	
Lash Otractions (Platistics - 0000 -)				approximately 20 ft (6 m) or more in height and 3 in.
Terb Stratum (Plot size: <u>30ft</u>)	00		FACU	(7.6 cm) or larger in diameter at breast height (DBH).
Initiality repeats (Write Clover)		yes		
2. Rumex crispus (Curly Dock)	15	no	FAC	Sapling – Woody plants, excluding woody vines,
Ambrosia trinida (Great Ragweed)	<u> </u>	no	FAC	than 3 in. (7.6 cm) DBH.
	5	<u>no</u>	FAC	-
		<u>no</u>		- Shrub – Woody plants, excluding woody vines,
		no	·	approximately 3 to 20 ft (1 to 6 m) in height.
·		no		Herb – All berbaceous (non-woody) plants, including
<u></u>		no		 herbaceous vines, regardless of size. Includes woody
)		no		plants, except woody vines, less than approximately
0		no		3 ft (1 m) in height.
1		no	<u> </u>	Woody vine - All woody vines regardless of height
	120	= Total Co	over	Woody whe – All woody whes, regardless of height.
50 % of total cover: 6	0 20 %	of total cove	r: 24	_
voody Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
		no		Vegetation
		no		Present? Yes <u> </u>
3		no		-
l		no		-
		no	<u> </u>	-
	0	= Total Co	over	
50 % of total cover:) 20 %	of total cove	r: 0	
				·
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

SOIL								Sampling Point:	10
Profile Desc	ription: (Describe	e to the depth	needed to docu	ment the i	ndicator c	or confirm t	he absence	of indicators.)	
Depth	Matrix	0/	R	edox Featu	res	1 2		Demeric	
(incries)		<u> </u>			Type			Remarks	
0-20	10YR 4/3	95	10YR 3/4	5	<u> </u>	M	Clay		
						<u> </u>			
						<u> </u>			
					. <u> </u>				
-						·			
¹ Type: C=Co	oncentration, D=De	epletion, RM=F	Reduced Matrix, C	CS=Covere	d or Coate	d Sand Gra	ins. ² L	ocation: PL=Pore Lining,	M=Matrix.
Hydric Soil I	Indicators:						Indica	tors for Problematic Hyd	dric Soils ³ :
□ Histosol ((A1)		Polyvalue B	elow Surfac	ce (S8) (LF	RR S, T, U)	□ 1 cm l	Muck (A9) (LRR O)	
□ Histic Epi	ipedon (A2)		□ Thin Dark S	uface (S9)	(LRR S, T	, U)	🗆 2 cm l	Muck (A10) (LRR S)	
Black His	tic (A3)		Loamy Mucl	ky Mineral ((F1) (LRR	O)	□ Reduc	ced Vertic (F18) (outside	MLRA 150A,B)
<u> </u>	n Sulfide (A4)		Loamy Gley	ed Matrix (I	F2)		Piedm	nont Floodplain Soils (F19) (LRR P, S, T)
<u></u> Stratified	Layers (A5)		Depleted Ma	atrix (F3)			□ Anom	alous Bright Loamy Soils	(F20)
Organic E	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(MI	LRA 153B)	
	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	ark Surface	(F7)			Parent Material (TF2)	10)
	esence (A8) (LRR (J)			3)		U Very S	Shallow Dark Surface (TF	12)
	SK (A9) (LKK P, I) Below Dark Surfa	ο (Δ11)		LKK U) Shric (E11) ((MI DA 15	1)		(Explain in Remarks)	
Depleted Depleted Depleted	rk Surface (A12)		□ Iron Mangar	nese Masse	es (F12) (L	"' .RR O. P. T			
Coast Pra	airie Redox (A16) (MLRA 150A)	Umbric Surf	ace (F13) (LRR P, T,	U)	' Indica	ators of Hydrophytic vege	tation and
□ Sandy M	ucky Mineral (S1) (LRR O, S)	Delta Ochric	; (F17) (ML	RA 151)		disturl	bed or problematic.	
□ Sandy GI	eyed Matrix (S4)		Reduced Ve	ertic (F18) (I	MLRA 150	DA, 150B)			
□ Sandy Re	edox (S5)		Piedmont Fl	oodplain So	oils (F19) ((MLRA 149)	A)		
Stripped	Matrix (S6)		<u></u> Anomalous	Bright Loan	ny Soils (F	20) (MLRA	149A, 153C,	, 153D)	
_ <u>□</u> Dark Surl	face (S7) (LRR P, 5	S, T, U)							
Restrictive L	Layer (if observed	l):							
Type:					Hyd	ric Soil Pre	esent?	Yes 🗌	No 🗹
Depth (in	ches):								
Remarks:									



Photo 46: Plot 10 - Soil sample



Photo 47: Plot 10 – Vegetation facing north Breaux Bridge I-10 Site



Photo 48: Plot 10 – Vegetation facing east





Photo 50: Plot 10 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Samplir	ng Date: <u>06/07/2022</u>
Applicant/Owner: One Acadiana	State: LASa	mpling Point: <u>11</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Undulating	Local relief (concave, convex, none): None	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.292	2147° Long: -91.92262°	Datum: WGS 84
Soil Map Unit Name: Dundee silt loam	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remark	<s.)< td=""></s.)<>
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" preser	nt? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	hatic? (If needed, explain any answers in l	Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	Is the Sampled Area within a Wetland?	Yes _ 🗹 No _ 🗆
Remarks: -			
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required)	<u>: check all that apply</u>) Aquatic Fauna (B13) Marl Deposits (B15) (I Hydrogen Sulfide Odd Ø Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Other (Explain in Ren	LRR U) or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) 77) narks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Yes No	☑ Depth (inches):	Wetland Hydr	ology Present? Yes 🗹 No 🗌
Describe Recorded Data (stream gauge, monit	toring well, aerial photos, prev	vious inspections), if avail	able:
Remarks:			

Sampling Point

				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1		no		$\frac{1}{2}$ That Are OBL, FACW, or FAC: <u>2</u> (A)
2.		no		Tatal Number of Deminent
3		no		I otal Number of Dominant Species Across All Strata: 2 (B)
4		no		$\frac{2}{D}$
5		no		Percent of Dominant Species
6		no		That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cov	er	
50 % of total cover: 0	20 % c	of total cover:	0	Prevalence Index worksheet:
				I otal % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species <u>80</u> x 1 = <u>80</u>
1		no		FACW species 40 X 2 = 80
2		no		FAC species 0 X 3 = 0
3		no		EACU species 0 $X 4 = 0$
4		no		
5		no		$\frac{0}{5} = 0$
6.		no		Column Totals: <u>120</u> (A) <u>160</u> (B)
	0	= Total Cov	er	
50 % of total cover: 0	20 % 0	of total cover:	0	Prevalence Index = $B/A = 1.33$
	_			Hydronhytic Vegetation Indicators:
Shrub Stratum (Plot size: 30ft)				I _ Papid Test for Hydrophytic Vegetation
1.		no		
2.		no		
3.		no		$3 - Prevalence Test is \le 3.0'$
4.		no		Problematic Hydrophytic Vegetation ¹ (Explain)
5.		no		
6.		<u></u>		¹ Indicators of hydric soil and wetland hydrology must
·	0	- Total Cov		be present, unless disturbed or problematic.
50 % of total cover:	20.%	= 10tal 000	0	Definitions of Vegetation Strata:
	20 %0			Tree – Woody plants, excluding woody vines.
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1 Eleocharis palustris (Common Spike-Rush)	80	VAS	OBI	(7.6 cm) or larger in diameter at breast height (DBH).
2 Cyperus eragrostis (Tall Flat Sedge)	40	<u>yes</u>		Contine Mascharlante evolution verschwinge
	-10	<u>yes</u>	FACW	Sapling – Woody plants, excluding woody vines,
۵		<u> </u>		than 3 in. (7.6 cm) DBH.
4		<u>no</u>		
5		<u>no</u>		Shrub – Woody plants, excluding woody vines,
7		no		approximately 3 to 20 ft (1 to 6 m) in height.
7		no		Herb – All berbaceous (non-woody) plants, including
8		no		herbaceous vines, regardless of size. Includes woody
9		no		plants, except woody vines, less than approximately
10		no		3 ft (1 m) in height.
11		no		Woody vine All woody since repeating of hereits
	120	= Total Cov	er	woody vine – All woody vines, regardless of height.
50 % of total cover: 60	20 % c	of total cover:	24	
Woody Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
1		no		Vegetation
2.		no		Present? Yes <u>⊻</u> No <u>□</u>
3.		no		
4.		no		
5.		no		
	0	- Total Cov	er	
50.0/			0	
50 % of total cover:	20 % 0	n total cover:		
Remarks: (Include photo numbers here or on a separate	sheet.)			
	,			

Depth	Matrix		Re	edox Featu		. 2			_		
(inches)	Color (moist)	%	Color (moist)	%	Type	LOC			Rema	irks	
0-8	10YR 3/1	95	10YR 4/6	5	C	PL	Clay				
8-20	10YR 5/1	95	10YR 4/6	5	C	M	Silty Clay				
-											
-											
-											
-											
	·										
-		·		·							
ype: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	d Sand Gr	ains. ² L	ocation: F	L=Pore Lin	ing, M=M	atrix.
vdric Soil	Indicators:						Indica	tors for P	oblematic	Hydric S	oils ³ .
	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I I	RSTU			(I RR O)	inyune o	0113 .
] Histic En	inedon (A2)		Thin Dark Su	uface (S9)			, <u> </u>	Muck (A10			
Black His	stic $(\Delta 3)$			w Mineral	(F1) (I RR	, 0, 		ad Vertic	(F18) (outs		۵ 15 0۵
<u>- Hvdrode</u>	n Sulfide (A4)			ed Matrix ((11) (EIXIX F2)	0)		ont Flood	olain Soils (F19) (I RI	RPS
Stratified	Lavers (A5)		Depleted Ma	atrix (F3)	- 2)			alous Bria	ht Loamy S	oils (F20)	, ,
] Organic I	Bodies (A6) (I RR P	т ш	Bedox Dark	Surface (F	6)		<u> </u>	RA 153R		010 (1 20)	
<u>⊐ Organie i</u> ∃ 5 cm Mu	cky Mineral (A7) (LRR I	RPTIN		ounace (i irk Surface	(F7)			Parent Mat	rial (TF2)		
<u>-</u> Muck Pre	esence (A8) (I RR II	((, , , , , , , , , , , , , , , , , , ,		essions (F)	8)			Shallow Da	ark Surface	(TF12)	
<u>-</u> Muok 1 it] 1 cm Mu	ck (A9) (I RR P T)	,	Marl (F10) (I		0)		Other	(Explain ir	Remarks)	(11 12)	
Denleted	Below Dark Surface	(A11)		-hric (F11)	(MI RA 15	1)			i i temainto)		
<u>-</u> Dopiciou ∃ Thick Da	rk Surface (A12)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nno (F FF) nese Massi	es (F12) (I	RR O. P. 1	۲)				
	airie Redox (A16) (N	II RA 150A)	Umbric Surfa	ace (F13) (U)	³ Indica	ators of Hy	drophytic v	egetation	and
⊥ Coast Pr					,	Ξ,	wellar	ia nyarolo	av must be	present, t	luness
<u> −</u> Coast Pr Sandv M	ucky Mineral (S1) (L	.RR O. S)	Delta Ochric	(F17) (ML	RA 151)		distur	ped or pro	olematic.		
<u>□</u> Coast Pr <u>□</u> Sandy M □ Sandy G	ucky Mineral (S1) (L leved Matrix (S4)	.RR O, S)	Delta Ochric	: (F17) (ML rtic (F18) (.RA 151) MLRA 150)A. 150B)	disturl	ped or pro	olematic.		
<u> Coast</u> Pr <u> Sandy</u> M <u> Sandy</u> Gi Sandy Re	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5)	.RR O, S)	Delta Ochric	: (F17) (ML rtic (F18) (oodplain S	.RA 151) MLRA 150 oils (F19) ()A, 150B) (MLRA 149	disturl	oed or pro	olematic.		
<pre>Coast Pr Sandy M Sandy G Sandy Ro Stripped</pre>	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6)	.RR O, S)	Delta Ochric Deta Ochric Reduced Ve Piedmont Fla Anomalous E	: (F17) (ML rtic (F18) (oodplain S Bright Loar	. RA 151) MLRA 150 oils (F19) (my Soils (F)A, 150B) (MLRA 149 (20) (MLRA	disturl 9A) A 149A, 153C,	ned or pro	olematic.		
□ Coast Pr □ Sandy M □ Sandy G □ Sandy Ro □ Stripped □ Dark Sur	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	.RR O, S) , T, U)	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML ertic (F18) (oodplain S Bright Loar	. RA 151) MLRA 150 oils (F19) (my Soils (F)A, 150B) (MLRA 14 9 (20) (MLR A	disturl 9A) A 149A, 153C,	153D)	olematic.		
□ Coast Pr □ Sandy M □ Sandy G □ Sandy R □ Stripped □ Dark Sur	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	RR O, S) , T, U)	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML ritic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA	disturl 9A) & 149A, 153C,	153D)	olematic.		
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	RR O, S) , T, U)	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML irtic (F18) (oodplain S Bright Loai	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA	disturi 9A) \ 149A, 153C,	bed or pro	olematic.		
Coast Pr Co	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fle Anomalous B	: (F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0 A, 150B) (MLRA 149 20) (MLRA	disturi 9A) A 149A, 153C,	bed or pro	olematic.		
Coast Pr Sandy M Sandy G Sandy G Sandy R Dark Sur	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U)	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D)	olematic.	No	
Sandy M Sandy G Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA (20) (MLRA	disturi A 149A, 153C, esent?	153D) Ye	s	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Dark Sur astrictive I Type: Depth (in marks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA (20) (MLRA	disturi DA) A 149A, 153C, esent?	153D) Ye	olematic.	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Dark Sur Dark Sur Strictive I Type: Depth (in marks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA (20) (MLRA	disturi DA) A 149A, 153C, esent?	153D) Ye	es	No	
Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur strictive I Type: Depth (in	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi DA) A 149A, 153C, esent?	153D) Ye	es <u>v</u>	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi 9A) A 149A, 153C, esent?	153D) Ye	es	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	.RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es <u>V</u>	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es 🔽	No _	
Coast Pr Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, resent?	153D) Ye	es 🔽	No	
Coast Pr Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous B	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es <u></u>	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur strictive Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	.RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous B	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es	No	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (ir emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	.RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fle Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es _ 🗹	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (ir emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es <u></u>	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (ir emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es <u>v</u>	No _	
Sandy M Sandy G Sandy G Sandy R Tripped Dark Sur Stripper Depth (ir emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es <u>v</u>	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 (20) (MLRA ric Soil Pr	disturi AA) A 149A, 153C, esent?	153D) Ye	es <u></u>	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (in emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	.RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es 🔽	No _	
Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur estrictive Type: Depth (ir emarks:	ucky Mineral (S1) (L leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S Layer (if observed)	.RR O, S) , T, U) :	Delta Ochric Reduced Ve Piedmont Fla Anomalous F	: (F17) (ML rtic (F18) (oodplain S Bright Loar	RA 151) MLRA 150 oils (F19) (my Soils (F	0A, 150B) (MLRA 149 20) (MLRA ric Soil Pr	disturi A 149A, 153C, esent?	153D) Ye	es 🔽	No _	



Photo 51: Plot 11 - Soil sample





Photo 53: Plot 11 – Vegetation facing east





Photo 55: Plot 11 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling D	Date: 06/07/2022		
Applicant/Owner: One Acadiana	State: LASampl	ing Point: <u>12</u>		
Investigator(s): Elliot B., Will T. Section, Township, Range: 38, T09S, R05E				
Landform (hillslope, terrace, etc.) Flat L	_ocal relief (concave, convex, none): <u>None</u>	Slope (%): <u>0-1</u>		
Subregion (LRR or MLRA): LRR O Lat: 30.2911	18° Long: <u>-91.923954°</u>	Datum: WGS 84		
Soil Map Unit Name: Dundee silt Ioam	NWI Classification: None			
Are climatic / hydrologic conditions on the site typical for this time of year?	? Yes 🗹 No 🗌 (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly disturbed	Are "Normal Circumstances" present?	Yes 🗹 No 🗌		
Are Vegetation, Soil, or Hydrologynaturally problemat	tic? (If needed, explain any answers in Ren	narks.)		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes Image: Mail Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes _	No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required)	<u>check all that apply)</u> Aquatic Fauna (B13) Marl Deposits (B15) (I Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reductior Thin Muck Surface (C Other (Explain in Rem	_RR U) or (C1) is on Living Roots (C3) Iron (C4) n in Tilled Soils (C6) 7) parks)	Secondary Indicator Surface Soil Cr Sparsely Vegel Drainage Patte Moss Trim Line Dry-Season Wi Crayfish Burrov Saturation Visil Geomorphic Pe Shallow Aquita FAC-Neutral To Sphagnum mo	rs (minimum of two required) racks (B6) tated Concave Surface (B8) erns (B10) es (B16) fater Table (C2) ws (C8) ble on Aerial Imagery (C9) osition (D2) ard (D3) est (D5) ss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	 ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): 	Wetland Hydro	blogy Present?	Yes 🗌 No 🗹
Remarks:				

Tree Stratum (Plot size: 30ft)

1. Quercus nigra (Water Oak)

			Dominance Test worksheet:
Absolute	Dominant	Indicator	
% Cover	Species?	Status	Number of Dominant Species
25	yes	FAC	That Are OBL, FACW, or FAC:
10			-

2. Quercus falcata (Southern Red Oak)	10	yes	FACU			
3.		no		Total Number of Dominant	_	
4.		no		Species Across All Strata:	5	(B)
5.		no				
6.		no		Percent of Dominant Species	60	
	35	= Total Cov	rer	That Are OBL, FACW, OF FAC	00	(A/B)
50 % of total cover: 18	20 % (of total cover:	7	Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species 0	x 1 =0	
1		no		FACW species 0	X 2 = 0	
2		no		FAC species 60	X 3 = 180	_
3		no		EACLI species 55	$X = \frac{100}{200}$	_
4		no			X 4 - <u>220</u>	_
5		no		UPL species 0	X 5 = <u>0</u>	-
6		no		Column Lotals: 115	(A) <u>400</u>	_ (B)
	0	= Total Cov	ver			
50 % of total cover: 0	20 % 0	of total cover:	0	Prevalence Index =	B/A = 3.48	
				Hydrophytic Vegetation Indicat	ors:	
Shrub Stratum (Plot size: <u>30ft</u>)				□ 1 – Rapid Test for Hydrophyt	ic Vegetation	
1. Triadica sebifera (Chinese Tallowtree)	10	yes	FAC	$\boxed{2}$ = Dominance Test is > 50%	6 6	
2		no		$\square 3 - \text{Prevalence Test is } \le 30^{1}$		
3		no			notation ¹ (Evala	in)
4		no				
5		no		¹ Indicators of hydric soil and w	etland hydroloc	v must
6		no		be present, unless disturbed of	r problematic.	,,,
	10	= Total Cov	rer	Definitions of Vegetation Strat	ta:	
50 % of total cover: 5	20 % 0	of total cover:	2			
				Tree – Woody plants, excluding	woody vines,	3 in
Herb Stratum (Plot size: <u>30ft</u>)	10			(7.6 cm) or larger in diameter at	breast height (DBH).
1. Solidago canadensis (Canadian Goldenrod)	40	yes	FACU		3 (,
2. Liquidambar styraciflua (Sweet-Gum)	15	yes	FAC	Sapling – Woody plants, exclud	ling woody vine	s,
3. Toxicodendron radicans (Eastern Poison Ivy)	10	no	FAC	than 3 in (7.6 cm) DBH	e in neight and	less
4. Parthenocissus quinquetolia (Virginia-Creeper)	5	no	FACU			
5		no		Shrub - Woody plants, excludin	ig woody vines.	,
6		no		approximately 3 to 20 ft (1 to 6 r	n) in height.	
7		no		Herb – All berbaceous (non-woo	ody) plants inc	udina
8		no		herbaceous vines, regardless of	size. Includes	woody
9		no		plants, except woody vines, less	than approxim	ately
10		no		3 ft (1 m) in height.		
11		no		Woody vine – All woody vines	regardless of h	eiaht
	70	= Total Cov	ver			o.g.n.
50 % of total cover: 35	20 % (ot total cover:	14			
Woody Vine Stratum (Plot size: 30ft)				Hydrophytic		

Woody Vine Stratum (Plot size: 30ft)				Hydrophytic		
1		no		Vegetation	-	_
2.		no		Present?	Yes 🗹	No 🛄
3.		no				
4.		no				
5.		no				
	0	= Total Cove	er			
50 % of total cover:0	20 % of	total cover:	0			

Remarks: (Include photo numbers here or on a separate sheet.)

Sampling Point 12

3 (A)

								Sampling	- OITIL		12
Profile Desc	ription: (Describe	to the depth	needed to docu	ment the in	dicator o	r confirm t	the absence of in	dicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²			Remarks		
0-20	10YR 4/3	100		0			Silty Clay				
							· ·				
							· ·				
						·					
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² Locati	ion: PL=Po	ore Lining,	M=M	atrix.
Hydric Soil I	ndicators:						Indicators	for Proble	matic Hy	dric S	oils³:
Histosol (A1)		D Polyvalue Be	elow Surfac	e (S8) (LF	R S, T, U)	□ 1 cm Mucł	(A9) (LRF	2 0)		
Histic Epi	pedon (A2)		□ Thin Dark Su	uface (S9) (I	LRR S, T,	U)	2 cm Mucł	(A10) (LR	R S)		
Black His	tic (A3)		□ Loamy Muck	y Mineral (F	=1) (LRR (0)	Reduced \	/ertic (F18)	(outside	MLR/	A 150A,B)
<u> </u>	n Sulfide (A4)		□ Loamy Gleye	ed Matrix (F	2)		Piedmont	Floodplain	Soils (F19)) (LRF	R P, S, T)
<u>Stratified</u>	Layers (A5)		Depleted Ma	trix (F3)			<u> </u>	s Bright Lo	amy Soils	(F20)	
Organic E	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F6	5) 		(MLRA	153B)			
	cky Mineral (A7) (LF	RR P, T, U)	Depleted Da	rk Surface ((F7)		□ Red Paren	it Material ((TF2) 	40)	
	Sence (A8) (LRR U))		U Other (Evr	ow Dark Su	unace (TF	12)	
	Relow Dark Surfac	۵ (۵11)		-rr 0) bric (F11) (I		1)			liaiks)		
Depicted Depicted Thick Date	rk Surface (A12)		□ Iron Mangan	ese Masses	s (F12) (L	' <i>'</i> RR O. P. T) 3				
Coast Pra	airie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ace (F13) (L	.RR P. T.	U)	' Indicators	of Hydrop	hytic vege	tation	and
□ Sandy M	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (MLF	RA 151)	,	disturbed of	or problema	atic.	sont, c	111033
□ Sandy GI	eyed Matrix (S4)		□ Reduced Ve	rtic (F18) (N	ILRA 150	A, 150B)					
□ Sandy Re	edox (S5)		Diedmont Flo	odplain So	ils (F19) (MLRA 149	A)				
<u></u> Stripped	Matrix (S6)		<u></u> Anomalous E	Bright Loam	y Soils (F	20) (MLRA	149A, 153C, 153	D)			
Dark Surl	ace (S7) (LRR P, S	S, T, U)									
Restrictive L	_ayer (if observed)):									
Туре:					Hyd	ric Soil Pre	esent?	Yes		No	\checkmark
Depth (in	ches):				_						
Remarks:											







Photo 58: Plot 12 – Vegetation facing east





Photo 60: Plot 12 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: St. Martin Parish	Sampling Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LA	Sampling Point: 13
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R</u>	05E
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.293	3714° Long: <u>-91.917727°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: Nor	ne
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🔽 No 🗌 (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstances"	present? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain any answ	ers in Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes	Is the Sampled Area within a Wetland?	Yes _ Mo
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ	<u>iired: check all that apply)</u> Aquatic Fauna (B13 Marl Deposits (B15) Hydrogen Sulfide Or Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Other (Explain in Re B7)) (LRR U) dor (C1) res on Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7) marks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Yes N	Io ✓ Depth (inches): Io ✓ Depth (inches): Io ✓ Depth (inches):	Wetland Hydr	ology Present? Yes 🗹 No 🗌
Describe Recorded Data (stream gauge, m	ionitoring well, aerial photos, pre	evious inspections), if avail	able:
Remarks:			

Г

Sampling Point

13

_

	Abaaluta	Dominant	Indicator	Dominande rest worksheet.
Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Status	Number of Deminent Creation
1	70 00001	opecies:	Olalus	Number of Dominant Species 2 (A)
יי י				
2.				- Total Number of Dominant
3.		no		Species Across All Strata: 2 (B)
4		no		- Species Across All Strata (B)
5		no		
6.		no		That Are OBL FACIAL as FAC: 100 (A/D)
	0	= Total Co	ver	- That Are OBL, FACW, of FAC: 100 (A/B)
50 % of total cover: 0	20 % (of total cover	·· 0	Prevalence Index worksheet:
	20 /00			Total % Cover of: Multiply by:
Conling Stratum (Plat aiza: 20ft)				
Saping Stratum (Flot size. <u>Solt</u>)				OBL species 110 $x T = 110$
		<u> </u>		FACW species15X 2 =30
		no		FAC species 0 X 3 = 0
3		no		- FACU species 0 X4 - 0
ł.		no		
5.		no		UPL species 0 X 5 = 0
).		 no		Column Totals: <u>125</u> (A) <u>140</u> (B)
···		- Total Ca	vor	-
50.04 44 41	<u> </u>			
50 % of total cover: 0	20 % (or total cover	: 0	Prevalence Index = B/A = 1.12
				Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: <u>30ft</u>)				✓ 1 – Rapid Test for Hydrophytic Vegetation
1		no		
2		no		
3.		no		$\boxed{\square}$ 3 – Prevalence Test is $\leq 3.0^{1}$
1		<u></u>		□ Problematic Hydrophytic Vegetation ¹ (Explain)
·				-
		<u> </u>		Indicators of hydric soil and wetland hydrology must
ö.		no		be present, unless disturbed or problematic.
	0	= Total Co	ver	Definitions of Vegetation Strata:
50 % of total cover: 0	20 % (of total cover	·: 0	
				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1. Leersia hexandra (Southern Cut Grass)	70	ves	OBI	(7.6 cm) or larger in diameter at breast height (DBH).
2 Juncus effusus (Lamp Rush)	40	<u>yes</u>		- Continue - Marchaeles to contration and a loss
		yes		Sapling – woody plants, excluding woody vines,
. Cyperus eragrostis (Tail Flat Sedge)	15	no	FACW	than 3 in (7.6 cm) DBH
ł		no		-
		no		Shrub – Woody plants, excluding woody vines.
ð		no		approximately 3 to 20 ft (1 to 6 m) in height.
7.		no		
3.				Herb – All herbaceous (non-woody) plants, including
)				 herbaceous vines, regardless of size. Includes woody
		10		_ plants, except woody vines, less than approximately
IU		no		_ 3 ft (1 m) in height.
1		no		
	<u>12</u> 5	= Total Co	ver	woody vine – All woody vines, regardless of height.
50 % of total cover: 63	20 % (of total cover	: 25	
				-
				Hudro a butic
Moody Vine Stratum (Plot size: 30ft.)				
Woody Vine Stratum (Plot size: <u>30ft</u>)				Veretetien
Voody Vine Stratum (Plot size: <u>30ft</u>)		no		Vegetation
Woody Vine Stratum (Plot size: <u>30ft</u>) I. 2.		no no		Vegetation Present? Yes <u>✓</u> No <u></u>
Voody Vine Stratum (Plot size: <u>30ft</u>) 		<u>no</u> <u>no</u>		Vegetation Present? Yes <u>√</u> No <u></u>
Voody Vine Stratum (Plot size: <u>30ft</u>)		no no no no		Vegetation Present? Yes <u>✓</u> No <u></u>
Voody Vine Stratum (Plot size: <u>30ft</u>)	 	no no no no		Vegetation Present? Yes <u>✓</u> No <u></u>
Woody Vine Stratum (Plot size: <u>30ft</u>) 2. 3. 4. 5.		no no no no		Vegetation Present? Yes <u></u> No <u></u> -
Voody Vine Stratum (Plot size: <u>30ft</u>) 2. 3. 4. 5.		no no no no = Total Co		Vegetation Present? Yes <u>✓</u> No <u></u>
Woody Vine Stratum (Plot size: <u>30ft</u>) . . 2. . 3. . 4. . 5. . 50 % of total cover: 0 0	 	no no no no = Total Co	 ver ::0	Vegetation Present? Yes <u>✓</u> No <u></u>
Woody Vine Stratum (Plot size:) 1.	0 0 20 % d	no no no no = Total Co	 ver ::0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size:) 1.	0 0 20 % d	no no no no = Total Co	 ver ::0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size:) 1.	0 20 % d	no no no no = Total Co	 ver ::0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size:) 1.	0 20 % d	no no no no = Total Co	ver :: 0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size:) 1.	0 0 20 % d	no no no = Total Co	ver 	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size: 30ft) 1.	0 0 20 % d	no no no = Total Co	 ver :: 0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size: <u>30ft</u>) 1 2 3 4 5 50 % of total cover: <u>0</u> Remarks: (Include photo numbers here or on a separate	0 20 % d	no no no = Total Co	 ver :: 0	Vegetation Present? Yes <u></u> No <u></u>
Woody Vine Stratum (Plot size: <u>30ft</u>) 1. 2. 3. 4. 5. 50 % of total cover: <u>0</u> Remarks: (Include photo numbers here or on a separate	0 20 % d	no no no = Total Co	 ver :: 0	Vegetation Present? Yes <u></u> No <u></u>

(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²			Rema	rks	
0-20 10YR 3/2 95	10YR 3/4	5	C	PL	Silty Clay				
-									
-		·							
-		·							
		·							
		·							
		·							
		·							
	De la col Matria O				21				A - 1 - 1
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gra	ains. ² Loc	ation: PL=F	Pore Lini	ng, M=N	
ydric Soil Indicators:		0 ((00) (1 5			rs for Probl	ematic I	Hydric S	Soils':
⊥ Histosol (A1)		elow Surfac	ce (S8) (LF	(R S, T, U)		JCK (A9) (LR	(RO)		
\square Histic Epipedon (A2)		Jface (S9) (0) 2)		JCK (A10) (L d Vortio (E1)	RR 5)		A 150A
\neg Black Fisher (A3) \neg Hydrogen Sulfide (A4)		d Matrix ([F1] (LKK [2)	0)		a venic (Fi) at Eloodolaii	o) (outsi o Soile (F		A 150A,
\Box Stratified Lavers (A5)		trix (F3)	2)			n i iocupian Sus Bright I	namy Sc	nils (F20))
\Box Organic Bodies (A6) (I RR P. T. U)	Redox Dark	Surface (F	6)		<u> </u>	A 153B)		JIIS (I 20)
\Box 5 cm Mucky Mineral (A7) (LRR P. T. U)	Depleted Da	rk Surface	(F7)		□ Red Par	ent Materia	l (TF2)		
☐ Muck Presence (A8) (LRR U)	□ Redox Depre	essions (F8	3)		□ Very Sh	allow Dark S	Surface ((TF12)	
☐ 1 cm Muck (A9) (LRR P, T)	 □ Marl (F10) (I	_RR U)	,		□ Other (E	xplain in Re	emarks)	, ,	
□ Depleted Below Dark Surface (A11)	Depleted Oc	hric (F11)	(MLRA 15 [,]	I)					
☐ Thick Dark Surface (A12)	□ Iron Mangan	ese Masse	es (F12) (L	RR O, P, T) ³ Indicato	ors of Hydro	nhvtic ve	aetation	and
☐ Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surfa	ace (F13) (I	LRR P, T,	U)	wetland	hydrology n	nust be p	present,	unless
☐ Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		disturbe	d or problen	natic.		
☐ Sandy Gleyed Matrix (S4)	□ Reduced Ve	rtic (F18) (I	MLRA 150	A, 150B)					
□ Sandy Redox (S5)	Piedmont Flo	podplain So	oils (F19) (MLRA 149	A)				
\exists Stripped Matrix (S6)		Bright Loan	ny Solls (F	20) (MLRA	149A, 153C, 1	53D)			
estrictive Layer (if observed):									
Typo:			Hyd	ric Soil Pro	esent?	Yes	\checkmark	No	
Type:									
Type: Depth (inches):									
Type: Depth (inches): emarks:	_								
Type: Depth (inches): emarks:									
Type: Depth (inches): emarks:									
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Type: Depth (inches): Remarks:									
Type: Depth (inches): lemarks:									
Type: Depth (inches): emarks:									







Photo 63: Plot 13 – Vegetation facing east





Photo 65: Plot 13 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASamp	ling Point: <u>14</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.293	555° Long: <u>-91.918397°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🗹 No 🗌 (If no, explain in Remarks.))
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrology naturally problema	tic? (If needed, explain any answers in Re	marks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes □ No ☑ Is till Yes □ No ☑ with Yes □ No ☑ Is till	he Sampled Area hin a Wetland?	Yes No V
Remarks: -			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>check all that apply)</u> Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on L Presence of Reduced Iron (C Recent Iron Reduction in Till Thin Muck Surface (C7) Other (Explain in Remarks)) iving Roots (C3) C4) ed Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Moss Trim Lines (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) EAC Neutral Tast (D5)
□ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes □ No ⊡ Water Table Present? Yes □ No ⊡ Saturation Present? Yes □ No ⊡ Saturation Present? Yes □ No ⊡ Saturation Present? Yes □ No ⊡ (includes capillary fringe)	 ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): 	Wetland Hydrol	Sphagnum moss (D8) (LRR T, U)
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous in	L spections), if availab	ole:

Г

Sampling Point

14

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	Abachuta Dominant Indiactor	Dominance lest worksneet:
Tree Stratum (Plot size: 30ft)	% Cover Species? Status	Number of Dominant Species
1.		That Are OBL, FACW, or FAC: 1 (A)
2.	<u></u>	(,
3	<u></u>	- Total Number of Dominant
4		Species Across All Strata: 2 (B)
5		-
6		Percent of Dominant Species
		- That Are OBL, FACW, or FAC: <u>50</u> (A/B)
F0.9% of total appears 0		Brovelence Index worksheet
		Total % Cover of Multiply by
Sapling Stratum (Plot size: 30ft)		OBI species 0 x 1 = 0
1.	no	
2		$\frac{1}{2} \text{FACW species} \frac{1}{2} \text{FACW species} \frac{1}{2} \text{FACW species} \frac{1}{2} \text{FACW species} \frac{1}{2} $
3		- FAC species 70 X 3 = 210
4		- FACU species <u>55</u> X 4 = <u>220</u>
5		UPL species 0 X 5 = 0
6		- Column Totals: 125 (A) 430 (B)
		-
50 % of total action 0		Developed by D/A 2 44
		Prevalence Index = B/A = 3.44
Shruh Stratum (Plot size: 30ft)		Hydrophytic Vegetation Indicators:
1.	no	1 – Rapid Test for Hydrophytic Vegetation
2.		- <u>2</u> – Dominance Test is > 50%
3.	<u></u>	[−] \square 3 – Prevalence Test is ≤ 3.0 ¹
4		 Problematic Hydrophytic Vegetation¹ (Explain)
 5		-
6		 ¹Indicators of hydric soil and wetland hydrology must
0.		 be present, unless disturbed or problematic.
50 % of total action 0		Definitions of Vegetation Strata:
		- Tree - Woody plants, excluding woody vines
Herb Stratum (Plot size: 30ft)		approximately 20 ft (6 m) or more in height and 3 in.
1 Paspalum urvillei (Vasev's Grass)	60 VOG EAC	(7.6 cm) or larger in diameter at breast height (DBH).
2 Solidado canadensis (Canadian Goldenrod)	<u> </u>	- One line - March and a factor and a line and a line a
3 Verbena brasiliensis (Venvain)	<u></u>	_ Sapling – woody plants, excluding woody vines,
Ampelonsis arborea (Pennervine)	$\frac{20}{10} \frac{10}{10} \frac{10}{10}$	than 3 in. (7.6 cm) DBH.
	<u>10</u> <u></u>	-
6		Shrub – Woody plants, excluding woody vines,
7		
۰ ٥		Herb – All herbaceous (non-woody) plants, including
0		 herbaceous vines, regardless of size. Includes woody
9		plants, except woody vines, less than approximately 2 ft (4, m) in h sinkt
10	<u>no</u>	
····		Woody vine – All woody vines, regardless of height.
	125 = I otal Cover	···· , ····, ·., ·., ·., ·., ·., ·., ·., ·., ·
50 % of total cover: 63	20 % of total cover: 25	-
vvoody vine Stratum (Plot size: <u>30ft</u>)		Hydrophytic
1	<u></u>	_ Vegetation
2	no	
3.	no	-
4	no	-
5		_
	0 = Total Cover	
50 % of total cover: 0	20 % of total cover: 0	
		-
Remarks: (Include photo numbers here or on a separat	te sheet.)	

SOIL								Sampling	Point:		14
Profile Desc	ription: (Describe to	the depth	needed to docu	ment the ir	ndicator or	r confirm tl	he absence	of indicators.)			
Depth	Matrix		R	edox Featu	res						
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²			Remark	S	
0-20	10YR 2/2	98	10YR 3/6	2	C	M	Silty Clay				
-											
-											
	·										
	·										
						<u> </u>					
						<u> </u>					
-											
¹ Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Matrix, C	CS=Covered	d or Coated	I Sand Grai	ns. ² L	ocation: PL=F	ore Lining	g, M=N	latrix.
Hydric Soil	Indicators:						Indica	tors for Proble	ematic Hy	vdric S	Soils ³
	(A1)		Polvvalue B	elow Surfac	e (S8) (LR	R S. T. U)	\Box 1 cm	Muck (A9) (LR	R 0)	, and a	
□ Histic Epi	ipedon (A2)		□ Thin Dark S	uface (S9) ('LRR S. T.	U)	□ 2 cm	Muck (A10) (LI	RRS)		
Black His	tic (A3)		Loamv Muc	kv Mineral (F1) (LRR (-,))	□ Redu	ced Vertic (F18) (outsid	e MLR	A 150A.B)
□ Hydroger	n Sulfide (A4)		□ Loamy Gley	ed Matrix (F	-2)	,	□ Piedn	nont Floodplain	Soils (F1	9) (LR	R P, S, T)
□ Stratified	Layers (A5)		Depleted Ma	atrix (F3)	,		□ Anom	, nalous Bright Lo	amy Soil	s (F20))
Organic E	Bodies (A6) (LRR P, T	', U)	□ Redox Dark	Surface (Fe	6)		(M	LRA 153B)		,	
5 cm Muc	cky Mineral (A7) (LRR	P, T, U)	Depleted Da	ark Surface	(F7)		□ Red F	Parent Material	(TF2)		
Muck Pre	esence (A8) (LRR U)		Redox Depr	essions (F8	6)		□ Very	Shallow Dark S	Surface (T	F12)	
1 cm Muo	ck (A9) (LRR P, T)		<u> </u>	LRR U)			Other	· (Explain in Re	marks)		
Depleted	Below Dark Surface	(A11)	Depleted O	chric (F11) (MLRA 151)					
□ Thick Da	rk Surface (A12)		□ Iron Manga	nese Masse	s (F12) (LF	RR O, P, T)	³ Indic	ators of Hydror	hytic vea	etation	and
Coast Prairie Redox (A16) (MLRA 150A)			Umbric Surf	ace (F13) (I	LRR P, T, I	J)	wetla	nd hydrology m	iust be pro	esent,	unless
□ Sandy M	ucky Mineral (S1) (LR	R O, S)	Delta Ochrid	c (F17) (MLI	RA 151)		distur	bed or problem	atic.		
□ Sandy GI	eyed Matrix (S4)		Reduced Ve	ertic (F18) (MLRA 150	A, 150B)					
□ Sandy Re	edox (S5)		Piedmont F	oodplain Sc	oils (F19) (MLRA 1494	A)				
<u>Stripped</u>	Matrix (S6)		Anomalous	Bright Loam	ny Soils (F2	20) (MLRA	149A, 153C	, 153D)			
Dark Sur	face (S7) (LRR P, S, ⁻	T, U)									
Restrictive I	_ayer (if observed):										
Туре:					Hydr	ic Soil Pre	sent?	Yes		No	\checkmark
Depth (in	ches):		_							-	
Remarks:											



Photo 66: Plot 14 - Soil sample



Photo 67: Plot 14 – Vegetation facing north Breaux Bridge 1-10



Photo 68: Plot 14 – Vegetation facing east





Photo 70: Plot 14 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: St. Martin Parish	Sampling Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LA	Sampling Point: 15
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R</u>	R05E
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR O Lat: 30.293	3131° Long: <u>-91.919903°</u>	Datum: WGS 84
Soil Map Unit Name: Dundee silt loam	NWI Classification: No	ne
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly distur	rbed? Are "Normal Circumstances"	" present? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	atic? (If needed, explain any answ	vers in Remarks.)

				-, - , , - , , - , , - , , - , - , , - ,
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	?	Yes □ No ☑ Yes □ No ☑ Yes □ No ☑	Is the Sampled Area within a Wetland?	•No
Remarks:				
-				
HYDROLOGY				
Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required
Primary Indicators (minimum of o	ne is required; o	check all that apply)		□ Surface Soil Cracks (B6)
□ Surface Water (A1)		□ Aquatic Fauna (B13)		□ Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		☐ Marl Deposits (B15)	(LRR U)	Drainage Patterns (B10)
□ Saturation (A3)		Hydrogen Sulfide Od	or (C1)	☐ Moss Trim Lines (B16)
U Water Marks (B1)		Oxidized Rhizospher	es on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Presence of Reduced	d Iron (C4)	Crayfish Burrows (C8)
□ Drift Deposits (B3)		Recent Iron Reduction	on in Tilled Soils (C6)	□ Saturation Visible on Aerial Imagery (C9)
□ Algal Mat or Crust (B4)		□ Thin Muck Surface (0	C7)	Geomorphic Position (D2)
Iron Deposits (B5)		Other (Explain in Rer	marks)	□ Shallow Aquitard (D3)
Inundation Visible on Aerial	Imagery (B7)			\square FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present? Ye	s 🔲 No 🔽	Depth (inches):		
Water Table Present? Ye	s 🔲 No 🔽	Depth (inches):	Wetlend Llvd	
Saturation Present? Ye (includes capillary fringe)	s 🔲 No 🔽	Depth (inches):		
Describe Recorded Data (stream	gauge, monitor	ing well, aerial photos, pre	vious inspections), if avai	lable:
Remarks:				

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Sampling Point

15

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	Abcoluto	Dominont	Indiantar	
ree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Status	Number of Dominant Species
Quercus virginiana (Live Oak)	20			That Are OBL_EACW_or EAC: 0 (A)
		<u>ycs</u>	170	
		no		Total Number of Dominant
·		<u> </u>		Species Across All Strata: 2 (B)
•		110		· · · · · · · · · · · ·
·		<u> </u>		Percent of Dominant Species
·				That Are OBL, FACW, or FAC: 0 (A/B)
50.0% of total accurate 10			ver	Dravelan es la deu werkels est:
	20 % 0		. 4	Total % Cover of: Multiply by:
apling Stratum (Plot size: 20ft)				
aping Stratum (Fiot size. <u>501</u>)		no		$\frac{\text{OBL species}}{1} = \frac{1}{2}$
		no		FACW species 0 $X 2 = 0$
		<u></u>		FAC species <u>10</u> X 3 = <u>30</u>
		<u> </u>		FACU species <u>130</u> X 4 = <u>520</u>
		<u> </u>		UPL species 0 X 5 = 0
				Column Totals: 140 (A) 550 (B)
-			(or	
	<u> </u>		vei . ∩	
	<u></u> 20 % 0	n iolai cover		Prevalence Index = B/A = <u>3.93</u>
aruh Stratum (Plot size: 20ft)				Hydrophytic Vegetation Indicators:
(FIOL SIZE. <u>3011</u>)		20		1 – Rapid Test for Hydrophytic Vegetation
				□ 2 – Dominance Test is > 50%
		<u> </u>		□ 3 – Prevalence Test is $\leq 3.0^1$
		<u> </u>		□ Problematic Hydrophytic Vegetation ¹ (Explain)
-				
		<u>no</u>		¹ Indicators of hydric soil and wetland hydrology must
		<u>no</u>		be present, unless disturbed or problematic.
	<u> </u>	= I otal Cov	ver	Definitions of Vegetation Strata:
50 % of total cover: 0	20 % c	or total cover	:	Tree - Woody plants, excluding woody vince
the Streeture (Distaire) 20ft				approximately 20 ft (6 m) or more in height and 3 in.
Hordeum pusillum (Little Barley)	۵۵	1000	EACU	(7.6 cm) or larger in diameter at breast height (DBH).
Sorabum balanansa (Johnson Grass)		<u>yes</u>		
Circium harridulum (Vallow Thiatla)		<u> </u>		Sapling – Woody plants, excluding woody vines,
	10	<u></u>	FAC	than 3 in. (7.6 cm) DBH.
		no		
		<u></u>		Shrub – Woody plants, excluding woody vines,
		<u>no</u>		approximately 3 to 20 ft (1 to 6 m) in height.
		no		Herb – All berbaceous (non-woody) plants including
		no		herbaceous vines, regardless of size. Includes woody
		no		plants, except woody vines, less than approximately
		no		3 ft (1 m) in height.
·		no		Woody vine - All woody vines regardless of height
	120	= Total Cov	/er	
50 % of total cover: 60	20 % c	of total cover	: 24	
body Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
		no		Vegetation
		no		Present? Yes <u> </u>
		no		
		no		
		no		
			/or	
	0	= Total Cov	101	
50 % of total cover: 0	0	= Total Cov of total cover	: 0	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	:0	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	: 0	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	<u> 0 </u>	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	: <u>0</u>	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	:0	
50 % of total cover:0	0 20 % c	= Total Cov of total cover	: <u>0</u>	

15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth **Redox Features** Matrix (inches) Color (moist) % Color (moist) Loc² Remarks % Type 0-20 10YR 3/2 98 10YR 3/4 2 С Μ Silty Clav 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: □ 1 cm Muck (A9) (LRR O) □ Histosol (A1) □ Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Suface (S9) (LRR S, T, U) □ Histic Epipedon (A2) □ 2 cm Muck (A10) (LRR S) □ Black Histic (A3) □ Loamy Mucky Mineral (F1) (LRR O) □ Reduced Vertic (F18) (outside MLRA 150A,B) □ Piedmont Floodplain Soils (F19) (LRR P, S, T) □ Hydrogen Sulfide (A4) □ Loamy Gleyed Matrix (F2) □ Stratified Layers (A5) Depleted Matrix (F3) □ Anomalous Bright Loamy Soils (F20) □ Organic Bodies (A6) (LRR P, T, U) □ Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) □ Depleted Dark Surface (F7) □ Red Parent Material (TF2) □ Muck Presence (A8) (LRR U) □ Very Shallow Dark Surface (TF12) □ Redox Depressions (F8) □ 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) ³Indicators of Hydrophytic vegetation and □ Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless □ Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) disturbed or problematic. □ Reduced Vertic (F18) (MLRA 150A, 150B) □ Sandy Gleyed Matrix (S4) □ 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: □ No ☑ Hydric Soil Present? Yes Depth (inches): Remarks:



Photo 71: Plot 15 - Soil sample



Photo 72: Plot 15 – Vegetation facing north Breaux Bridge I-10 Site



Photo 73: Plot 15 – Vegetation facing east





Photo 75: Plot 15 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: <u>St. Martin Parish</u> Sampling	g Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASam	pling Point: <u>16</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	_
Landform (hillslope, terrace, etc.) Depression	Local relief (concave, convex, none): None	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.2927	725° Long: <u>-91.920553°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🔽 No 🗌 (If no, explain in Remarks	s.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" present	? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in R	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes <mark>☑</mark> No Yes <u>☑</u> No Yes <u>☑</u> No	Is ti witi	ne Sampled Area nin a Wetland?	Yes		No]
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indi	cators (mi	nimum of	two required)
Primary Indicators (minimum of one is rec	wired: check all that apply	d)		Surface Sc	hil Cracks	(B6)	(wo required)
Primary indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Ulred: cneck all that apply Aquatic Faun Marl Deposits Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Other (Explai (B7)	2 aa (B13) s (B15) (LRR U) ilfide Odor (C1) zospheres on Li Reduced Iron (C Reduction in Tille urface (C7) in in Remarks)	ving Roots (C3) :4) ed Soils (C6)	Surrace So Sparsely V Drainage F Moss Trim Dry-Seaso Crayfish B Saturation Geomorph Shallow Ac FAC-Neutr Sphagnum	Vegetated Patterns (E Lines (B1 on Water T urrows (C Visible or vic Positior quitard (D2 ral Test (D o moss (D2	(B6) Concave 3 310) 6) fable (C2) 8) a Aerial Im a (D2) 3) 5) 5) 8) (LRR T	Surface (B8) hagery (C9) , U)
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No ✓ Depth (inches): No ✓ Depth (inches): No ✓ Depth (inches):		Wetland Hydro	blogy Present?	Yes	. 🔽	No
Describe Recorded Data (stream gauge,	monitoring well, aerial pho	otos, previous ins	spections), if availa	able:			
Remarks:							

Sampling Point

16

				Dominance Test worksheet:							
Tree Stratum (Plot size: 20ft)	Absolute	Dominant	Indicator								
ree Stratum (Plot size: <u>30it</u>)	% Cover	Species?	Status	Number of Dominant Species							
1		no		- Inat Are OBL, FACW, of FAC: <u>2</u> (A)							
2		no									
3.		no		I otal Number of Dominant							
4.		no		Species Across All Strata: (B)							
5		no									
6.		no		That Are OBL EACING or EAC: 66 (A/B)							
	0	= Total Co	ver	$- \text{Inal Ale OBL, FACW, OF FAC:} \underline{\text{OO}} (A/B)$							
50 % of total cover: 0	20 % (of total cover	: 0	Prevalence Index worksheet:							
				Total % Cover of: Multiply by:							
Sapling Stratum (Plot size: 30ft)				OBL species 40 $x = 40$							
1.		no		$\frac{1}{10} = \frac{1}{10}$							
2				$\frac{1}{10000000000000000000000000000000000$							
2.				- FAC species <u>0</u> X 3 = <u>0</u>							
3		<u></u> no		- FACU species 80 X 4 = 320							
4.		no		UPL species $0 \times 5 = 0$							
5		no		$\frac{1}{2} = \frac{1}{2} = \frac{1}$							
6		no		-							
	0	= Total Co	ver								
50 % of total cover: 0	20 % 0	of total cover	: 0	Prevalence Index = $B/A = 2.67$							
	—			Hydronhytic Vegetation Indicators:							
Shrub Stratum (Plot size: 30ft)				1 Denid Test for Ludrants tin Manufacture							
1.		no									
2.				⁻ <u></u> 2 – Dominance Test is > 50%							
3.		 		$\boxed{\square}$ 3 – Prevalence Test is $\leq 3.0^1$							
A		<u></u>		Problematic Hydrophytic Vegetation ¹ (Explain)							
۳				-							
o		no		Indicators of hydric soil and wetland hydrology must							
6		no		be present, unless disturbed or problematic.							
	0	= Total Co	ver	Definitions of Vegetation Strata:							
50 % of total cover: 0	20 % (of total cover	: 0	_							
				Tree – Woody plants, excluding woody vines,							
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.							
1. Cynodon dactylon (Bermuda Grass)	80	yes	FACU								
2. Juncus marginatus (Bog Rush)	40	yes	FACW	Sapling – Woody plants, excluding woody vines.							
3. Juncus effusus (Lamp Rush)	40	ves	OBL	approximately 20 ft (6 m) or more in height and less							
4. Cyperus eragrostis (Tall Flat Sedge)	20	<u></u>	FACW/	than 3 in. (7.6 cm) DBH.							
5		<u></u>		-							
6				- Shrub – Woody plants, excluding woody vines,							
7				approximately 3 to 20 ft (1 to 6 m) in height.							
7		no		Herb – All berbaceous (non-woody) plants including							
8		no		 herbaceous vines, regardless of size. Includes woody 							
9.		no		_ plants, except woody vines, less than approximately							
10		no		3 ft (1 m) in height.							
11.		no									
	180	= Total Co	ver	Woody vine – All woody vines, regardless of height.							
50 % of total cover: 90	20 % (of total cover	: 36								
				-							
Woody Vine Stratum (Plot size: 30ft)				the based of the							
1		20		riyaropnytic Vegetation							
יי ס		110		Present? Yes V No							
2.		no									
J		no		-							
4		no		-							
5		no		_							
	0	= Total Co	ver								
E0.% of total any or:		of total action	0								
	20 /8 0		·	-							
Remarks: (Include photo numbers here or on a separa	ate sheet.)										
, ,	/										
SOIL								Sampling	Point:		16
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Profile Desc	ription: (Describe	to the depth	needed to docu	ment the in	dicator or	r confirm	the absence c	of indicators.)			
Depth	Matrix		R	edox Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remarks	<u>.</u>	
0-20	10YR 4/2	90	10YR 3/6	10	С	PL	Silty Clay				
				. <u> </u>							
							<u> </u>				
-											
-											
	. <u></u>			·			· ·				
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	or Coated	Sand Gra	ains. ² Lo	ocation: PL=P	ore Lining	, M=M	atrix.
Hvdric Soil	Indicators:						Indicat	ors for Proble	ematic Hv	dric S	oils³:
	(A1)		Polvvalue B	elow Surface	e (S8) (LR	R S. T. U)	$\square 1 \text{ cm } \mathbb{N}$	luck (A9) (LR	R O)		0.101
□ Histic Epi	ipedon (A2)		□ Thin Dark S	uface (S9) (L	_RR S. T.	U)	□ 2 cm N	luck (A10) (LF	RRS)		
Black His	tic (A3)		Loamv Muck	v Mineral (F	1) (LRR (-,)	□ Reduc	ed Vertic (F18) (outside	MLR/	A 150A.B)
□ Hydroger	n Sulfide (A4)		□ Loamy Gley	ed Matrix (F2	2)	,		ont Floodplain	Soils (F19	3) (LRI	R P, S, T)
□ Stratified	Layers (A5)		☑ Depleted Ma	atrix (F3)	,			, alous Bright Lo	amy Soils	(F20)	
Organic E	Bodies (A6) (LRR F	P, T, U)	□ Redox Dark	Surface (F6))		(ML	RA 153B)		. ,	
□ 5 cm Mu	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	ark Surface (, F7)		□ Red Pa	arent Material	(TF2)		
Muck Pre	esence (A8) (LRR L	J)	□ Redox Depr	essions (F8)			□ Very S	hallow Dark S	urface (TF	-12)	
🔲 1 cm Muo	ck (A9) (LRR P, T)		🗆 Marl (F10) (I	LRR U)			□ Other ((Explain in Re	marks)		
Depleted	Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11) (N	ILRA 151)					
□ Thick Da	rk Surface (A12)		□ Iron Mangar	nese Masses	s (F12) (LF	RR O, P, T) _{3Indica}	tors of Hydror	hytic year	atation	and
□ Coast Pra	airie Redox (A16) (MLRA 150A)	Umbric Surfa	ace (F13) (L	RR P, T, l	J)	wetlan	d hydrology m	ust be pre	sent, i	unless
□ Sandy M	ucky Mineral (S1) (LRR O, S)	Delta Ochric	; (F17) (MLR	A 151)		disturb	ed or problem	atic.		
□ Sandy GI	eyed Matrix (S4)		□ Reduced Ve	ertic (F18) (M	ILRA 150/	A, 150B)					
□ Sandy Re	edox (S5)		Piedmont Fl	oodplain Soi	ls (F19) (MLRA 149	DA)				
<u>Stripped</u>	Matrix (S6)		Anomalous	Bright Loamy	y Soils (F2	20) (MLRA	149A, 153C,	153D)			
Dark Sur	face (S7) (LRR P, S	S, T, U)									
Restrictive I	ayer (if observed):									
Type:	•	•			L la cala			Vee		Na	
Depth (in	ches):				Hyar	IC SOIL Pro	esent?	res_		NO _	
Pomorke:	,										
Remarks:											
l											





Photo 77: Plot 16 – Vegetation facing north



Photo 78: Plot 16 – Vegetation facing east





Photo 80: Plot 16 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampl	ing Date: <u>06/07/2022</u>
Applicant/Owner: One Acadiana	State: LAState: State: Stat	ampling Point: <u>17</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Depression	Local relief (concave, convex, none): Concave	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.29	2903° Long: <u>-91.92063°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes 🗹 No 🗌 (If no, explain in Remai	rks.)
Are Vegetation, Soil, or Hydrologysignificantly distu	Irbed? Are "Normal Circumstances" prese	ent? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in	Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes $\boxed{2}$ No $\boxed{1}$ Yes $\boxed{2}$ No $\boxed{1}$ Yes $\boxed{2}$ No $\boxed{1}$	Is the Sampled Area within a Wetland?	Yes _	No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; c Surface Water (A1)	heck all that apply)		Secondary Indicato ☑ Surface Soil C ☑ Sparsely Vege	rs (minimum of two required) racks (B6) etated Concave Surface (B8)
□ High Water Table (A2) □ Saturation (A3) □ Water Marks (B1) □ Sediment Deposits (B2) □ Drift Deposits (B3) □ Algal Mat or Crust (B4) □ Iron Deposits (B5) □ Inundation Visible on Aerial Imagery (B7) ☑ Water-Stained Leaves (B9)	□ Marl Deposits (B15) (LR □ Hydrogen Sulfide Odor (☑ Oxidized Rhizospheres □ Presence of Reduced Irr □ Recent Iron Reduction in □ Thin Muck Surface (C7) □ Other (Explain in Remart	RR U) (C1) on Living Roots (C3) on (C4) n Tilled Soils (C6) rks)	Drainage Patte Moss Trim Lin Dry-Season W Crayfish Burro Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Sphagnum mo	erns (B10) es (B16) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) osition (D2) ard (D3) fest (D5) vss (D8) (LRR T, U)
Field Observations:	Depth (inches):			
Water Table Present? Yes No Image: Construction of the sector of the sec	Depth (inches):	Wetland Hydro	logy Present?	Yes 🗹 No 🗌
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previo	bus inspections), if availa	ble:	
Remarks:				

Sampling Point

17

· · · · ·				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Triadica sebifera (Chinese Tallowtree)	60	yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2.		no		
3.		no		Total Number of Dominant
4.		no		Species Across All Strata: (B)
5.		no		
6.		no		Percent of Dominant Species
	60	= Total Cov	er	That Are OBL, FACW, of FAC: 100 (A/B)
50 % of total cover: <u>30</u>	20 % c	of total cover:	12	Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30ft)				OBL species 0 $x 1 = 0$
1. Triadica sebifera (Chinese Tallowtree)	10	ves	FAC	$EACW$ species 30 $X_2 = 60$
2.		no		$\frac{1}{10000000000000000000000000000000000$
3.	·	no		FAC species $\frac{10}{10}$ $\times 3 = \frac{210}{10}$
4.	·	no		FACU species 0 X 4 = 0
5.		no		UPL species 0 X 5 = 0
6.		<u></u>		Column Totals: <u>100</u> (A) <u>270</u> (B)
	10	= Total Cov	er	
50 % of total cover 5	20 %	f total cover	2	Drouglance Index D/A 27
	20 /0 0		<u> </u>	Prevalence index = $B/A = 2.1$
Shrub Stratum (Plot size: 30ft)				Hydrophytic Vegetation Indicators:
1. Fraxinus pennsylvanica (Green Ash)	10	VAC	ΕΔC \//	□ 1 – Rapid Test for Hydrophytic Vegetation
2		<u>yes</u>		2 – Dominance Test is > 50%
3		<u></u>		$\boxed{\square}$ 3 – Prevalence Test is ≤ 3.0 ¹
٥				Problematic Hydrophytic Vegetation ¹ (Explain)
4	·	no		
5		no		¹ Indicators of hydric soil and wetland hydrology must
0		no		be present, unless disturbed or problematic.
		= I otal Cov	er	Definitions of Vegetation Strata:
50 % of total cover: 5	20 % c	of total cover:	Z	
Harb Stratum (Distaire) 20ft)				approximately 20 ft (6 m) or more in height and 3 in.
1 Carey tribulaidas (Plunt Proom Sodas)	20			(7.6 cm) or larger in diameter at breast height (DBH).
	20	yes	FACW	
2.		no		Sapling – Woody plants, excluding woody vines,
3.		no		than 3 in (7.6 cm) DBH
4.		no		
5.		no		Shrub – Woody plants, excluding woody vines,
6.		no		approximately 3 to 20 ft (1 to 6 m) in height.
7.		no		Herb All berbasseus (non woody) plants including
8	<u> </u>	no		herbaceous vines, regardless of size. Includes woody
9		no		plants, except woody vines, less than approximately
10		no		3 ft (1 m) in height.
11		no		
	20	= Total Cov	er	woody vine – All woody vines, regardless of height.
50 % of total cover: 10	20 % c	of total cover:	4	
Woody Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
1		no		Vegetation
2.		no		Present? Yes <u>⊻</u> No <u>□</u>
3.		no		
4.		no		
5.		no		
	0	= Total Cov	er	
	20.0/	of total cover	0	
	20 % (-
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Description	on: (Describe Matrix	to the depth	needed to docur Re	nent the i dox Featu	indicator o	r confirm tl	ne absence	of indicators	5.)		
(inches) Co	lor (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remarks		
0-20	10YR 4/2	95	10YR 3/6	5	С	PL	Silty Clav				
-											
—					·						
	· ·	·									
					·						
					·	<u> </u>					
	·				·						
		·									
¹ Type: C=Concen	tration, D=Dep	oletion, RM=F	Reduced Matrix, C	S=Covere	ed or Coate	d Sand Grai	ns. ²L	ocation: PL=	Pore Lining	, M=Matriz	x
Hydric Soil Indica	ators:						Indica	tors for Prob	lematic Hy	dric Soils	3 ³ :
Histosol (A1)			Polyvalue Be	low Surfa	ce (S8) (LF	RR S, T, U)	🗆 1 cm	Muck (A9) (L	RR O)		
Histic Epipedor	n (A2)		□ Thin Dark Su	face (S9)	(LRR S, T,	U)	□ 2 cm	Muck (A10) (LRR S)		
Black Histic (A	3)		Loamy Muck	y Mineral	(F1) (LRR	0)	🗆 Redu	ced Vertic (F	8) (outside	MLRA 1	50A,B)
Hydrogen Sulfi	de (A4)		Loamy Gleye	d Matrix (F2)		□ Piedr	nont Floodpla	in Soils (F19) (LRR P	, S, T)
Stratified Layer	's (A5)		Depleted Ma	trix (F3)			□ Anom	nalous Bright I	Loamy Soils	(F20)	
Organic Bodies	s (A6) (LRR P,	T, U)	□ Redox Dark	Surface (F	-6)		(M	LRA 153B)			
□ 5 cm Mucky Mi	ineral (A7) (LR	R P, T, U)	Depleted Da	k Surface	e (F7)		□ Red I	Parent Materia	al (TF2)		
□ Muck Presence	e (A8) (LRR U))	Redox Depresentation	ssions (F	8)		□ Very	Shallow Dark	Surface (TF	12)	
□ 1 cm Muck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other	[.] (Explain in R	emarks)		
Depleted Below	v Dark Surface	e (A11)	Depleted Ocl	nric (F11)	(MLRA 15 ⁻	1)					
□ Thick Dark Sur	face (A12)		□ Iron Mangan	ese Mass	es (F12) (L	RR O, P, T)	³ Indic	ators of Hydro	ophytic vege	tation and	h
Coast Prairie R	ledox (A16) (N	ILRA 150A)	Umbric Surfa	ce (F13) ((LRR P, T,	U)	wetla	nd hydrology	must be pre	sent, unle	SS
□ Sandy Mucky Mucky	/lineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (ML	RA 151)		distur	bed or proble	matic.		
□ Sandy Gleyed	Matrix (S4)		Reduced Ver	tic (F18) ((MLRA 150	A, 150B)					
□ Sandy Redox (S5)		Piedmont Flo	odplain S	oils (F19) (MLRA 149A	N)				
Stripped Matrix	: (S6)		□ Anomalous E	Bright Loai	my Soils (F	20) (MLRA	149A, 153C	, 153D)			
Dark Surface (S7) (LRR P, S	, T, U)									
Restrictive Laver	(if observed)										
Type.	(ii observeu).	•							_	_	
Depth (inches)	:		_		Hyd	ric Soil Pre	sent?	Yes	\checkmark	No 🗌	
Remarks:											
Komano.											







Photo 83: Plot 17 – Vegetation facing east





Photo 85: Plot 17 – Vegetation facing west

Project/Site: Breaux Bridge I-10	City/County: <u>St. Martin Parish</u> Sampling	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LA Sam	pling Point: <u>18</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): <u>None</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR O Lat: 30.2922	238° Long: <u>-91.921334°</u>	Datum: WGS 84
Soil Map Unit Name: Tensas silty clay loam, 0 to 1 percent slopes	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🔽 No 🗌 (If no, explain in Remarks	.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	Ded? Are "Normal Circumstances" present?	? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problema	tic? (If needed, explain any answers in Re	emarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes D No D Yes No D Yes No D	s the Sampled Area vithin a Wetland?	Yes	No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iror Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remarks)	U) 1) h Living Roots (C3) h (C4) Tilled Soils (C6) s)	Secondary Indicato Surface Soil C Sparsely Vege Drainage Patte Moss Trim Line Dry-Season W Crayfish Burro Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Sphagnum mo	rs (minimum of two required) racks (B6) stated Concave Surface (B8) erns (B10) es (B16) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) osition (D2) ard (D3) fest (D5) oss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) No Describe Recorded Data (stream gauge, monitor)	Image: Depth (inches):	Wetland Hydro Ketland Hydro K	blogy Present?	Yes 🗌 No 🗹
Remarks:				

Sampling Point

18

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		Dominance Test worksheet:
Tree Stratum (Distaire) 20th	Absolute Dominant Indicator	
riee Stratum (Plot size: <u>3011</u>)	% Cover Species? Status	_ Number of Dominant Species
1		
2	<u></u>	
3.		I otal Number of Dominant
4.		– Species Across All Strata: <u>5</u> (B)
5		
6.	no	That Are OBLE FACING or FAC: 33 (A/P)
	0 = Total Cover	$- \qquad \text{Inal Ale OBL, FACW, OF FAC:} \qquad 33 \qquad (A/B)$
50 % of total cover: 0	20 % of total cover: 0	Prevalence Index worksheet:
		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30ft)		OBI species $0 \times 1 = 0$
1	no	
?		$\frac{1}{2} FACVV \text{ species } \frac{1}{2} X = \frac{1}{2}$
2.		_ FAC species X 3 =
3.		- FACU species 90 X 4 = 360
4	<u></u>	- LIPL species 0 X 5 $-$ 0
5		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6		
	0 = Total Cover	
50 % of total cover: 0	20 % of total cover: 0	Prevalence Index = $B/A = 3.67$
		Hydrophytic Vegetation Indicators
Shrub Stratum (Plot size: 30ft)		
1.	no	I – Rapid Test for Hydrophytic Vegetation
2.	<u></u>	- <u>2</u> – Dominance Test is > 50%
3		\Box 3 – Prevalence Test is ≤ 3.0 ¹
A		Problematic Hydrophytic Vegetation ¹ (Explain)
4		-
5.	<u></u>	¹ Indicators of hydric soil and wetland hydrology must
6	<u></u>	 be present, unless disturbed or problematic.
	0 = Total Cover	Definitions of Vegetation Strata:
50 % of total cover: 0	20 % of total cover: 0	
		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: <u>30ft</u>)		approximately 20 ft (6 m) or more in height and 3 in.
1. Sorghum halepense (Johnson Grass)	40 yes FACU	(7.6 cm) of larger in diameter at breast height (DBH).
2. Paspalum urvillei (Vasey's Grass)	35 yes FAC	Sapling – Woody plants, excluding woody vines.
3. Solidago canadensis (Canadian Goldenrod)	30 ves FACU	approximately 20 ft (6 m) or more in height and less
4. Verbena incompta (Brazilian Vervain)	20 no EACU	than 3 in. (7.6 cm) DBH.
5 Cirsium horridulum (Yellow Thistle)	$\frac{10}{10}$	-
		Shrub – Woody plants, excluding woody vines,
3		approximately 3 to 20 ft (1 to 6 m) in height.
<i>I</i>		Herb – All berbaceous (non-woody) plants, including
8	<u></u>	- herbaceous vines, regardless of size. Includes woody
9		_ plants, except woody vines, less than approximately
10	no	3 ft (1 m) in height.
11.	no	
	135 = Total Cover	Woody vine – All woody vines, regardless of height.
50 % of total cover: 68	8 20 % of total cover: 27	
		-
Woody Vine Stratum (Plot size: 30ft)		Livera a butia
1	20	Hydrophytic
···		- Vegetation Present? Yes No V
2	no	
J		-
4	no	-
5	no	_
	0 = Total Cover	
50 % of total cover: 0	20% of total cover: 0	
		-
Remarks: (Include photo numbers here or on a separa	ate sheet.)	
	,	

18 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth **Redox Features** Matrix (inches) Color (moist) % Color (moist) Loc² Remarks % Type 0-20 10YR 4/3 100 0 Silty Clav 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: □ 1 cm Muck (A9) (LRR O) □ Histosol (A1) □ Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Suface (S9) (LRR S, T, U) □ Histic Epipedon (A2) □ 2 cm Muck (A10) (LRR S) □ Black Histic (A3) □ Loamy Mucky Mineral (F1) (LRR O) □ Reduced Vertic (F18) (outside MLRA 150A,B) □ Piedmont Floodplain Soils (F19) (LRR P, S, T) □ Hydrogen Sulfide (A4) □ Loamy Gleyed Matrix (F2) □ Stratified Layers (A5) Depleted Matrix (F3) □ Anomalous Bright Loamy Soils (F20) □ Organic Bodies (A6) (LRR P, T, U) □ Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) □ Depleted Dark Surface (F7) □ Red Parent Material (TF2) □ Muck Presence (A8) (LRR U) □ Very Shallow Dark Surface (TF12) □ Redox Depressions (F8) □ 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) ³Indicators of Hydrophytic vegetation and □ Coast Prairie Redox (A16) (MLRA 150A) □ Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless □ Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) disturbed or problematic. □ Reduced Vertic (F18) (MLRA 150A, 150B) □ Sandy Gleyed Matrix (S4) □ 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: □ No ☑ Hydric Soil Present? Yes Depth (inches): Remarks:







Photo 88: Plot 18 – Vegetation facing east





Photo 90: Plot 18 – Vegetation facing west

Project/Site: Breaux Bridge I-10	_ City/County: <u>St. Martin Parish</u> Sampling D	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASampl	ing Point: <u>19</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	_
Landform (hillslope, terrace, etc.) Flat Loc	cal relief (concave, convex, none): <u>None</u>	Slope (%): <u>0</u>
Subregion (LRR or MLRA): LRR O Lat: 30.290632	2° Long: <u>-91.92374°</u>	Datum: WGS 84
Soil Map Unit Name: Dundee silt Ioam	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes 🔽 No 🗌 (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Ren	narks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes	Is the Sampled Area within a Wetland?	Yes _ Mo
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	check all that apply) □ Aquatic Fauna (B13) □ Marl Deposits (B15) (L) □ Hydrogen Sulfide Odor ☑ Oxidized Rhizospheres □ Presence of Reduced I □ Recent Iron Reduction □ Thin Muck Surface (C7 □ Other (Explain in Remain	RR U) (C1) s on Living Roots (C3) iron (C4) in Tilled Soils (C6) ') arks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) No Describe Recorded Data (stream gauge, monitor)	☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches): □ pring well, aerial photos, previous	Wetland Hydr	ology Present? Yes <u>√</u> No <u></u> able:
Remarks:			

Sampling Point

19

				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Liquidambar styraciflua (Sweet-Gum)	5	yes	FAC	That Are OBL, FACW, or FAC: <u>5</u> (A)
2. Triadica sebifera (Chinese Tallowtree)	5	yes	FAC	
3.		no		Total Number of Dominant
4.		no		Species Across All Strata: <u>5</u> (B)
5.		no		
6.				Percent of Dominant Species
·	10	- Total Cov		That Are OBL, FACW, or FAC: 100 (A/B)
50 % of total action 5	20.9/ 0			Provalance Index worksheet
	20 % C	lotal cover	2	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species 0 $x 1 = 0$
1		no		FACW species 65 X 2 = 130
2		no		FAC species 45 X 3 = 135
3		no		EACLI species 10 $XA = A0$
4.		no		
5.		no		UPL species $0 X = 0$
б		no		Column Totals: <u>120</u> (A) <u>305</u> (B)
	0			
50 % of total action 0				
	20 % 0	or total cover	0	Prevalence Index = B/A = 2.54
				Hydrophytic Vegetation Indicators:
Snrub Stratum (Plot size: <u>30ft</u>)	-			□ 1 – Rapid Test for Hydrophytic Vegetation
1. Morella cerifera (Southern Bayberry)	5	yes	FAC	$\boxed{12}$ 2 – Dominance Test is > 50%
2	<u> </u>	no		$\square 2 \text{Provelance Test is } < 2.0^1$
3		no		$\boxed{1}$ 3 – Prevalence Test is $\leq 3.0^{\circ}$
4.		no		Problematic Hydrophytic Vegetation' (Explain)
5.		no		
6		<u></u>		¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
			/ei 4	Definitions of Vegetation Strata:
50% of total cover: <u>3</u>	20 % c	of total cover		
				approximately 20 ft (6 m) or more in height and 3 in
Herb Stratum (Plot size: <u>30ft</u>)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Carex cherokeensis (Cherokee Sedge)	65	yes	FACW	
2. Ambrosia trifida (Great Ragweed)	30	yes	FAC	Sapling – Woody plants, excluding woody vines,
Solidago altissima (Tall Goldenrod)	10	no	FACU	approximately 20 ft (6 m) or more in height and less
4.		no		than 3 in. (7.6 cm) DBH.
5.		<u></u>		
6		<u></u>		Shrub – Woody plants, excluding woody vines,
7		<u> </u>		
		10		Herb – All herbaceous (non-woody) plants including
8		no		herbaceous vines, regardless of size. Includes woody
9		no		plants, except woody vines, less than approximately
10		no		3 ft (1 m) in height.
11.		no		
	105	= Total Cov	ver	Woody vine – All woody vines, regardless of height.
50 % of total cover: 53	20 % c	of total cover	21	
	_ 20 /0 0			
Moody Vine Stratum (Plot size: 20ft)				
(FIUL SIZE. <u>3011</u>)				Hydrophytic
ı		no		Present? Voc V
<u></u>		no		
3		no		.
4		no		.
5.		no		
	0	- Total Co	/er	
			0	
50 % of total cover:	20 % c	of total cover	0	
Remarks: (Include photo numbers here or on a separate	sheet.)			1
	511001.)			

Depth Matrix	Re	dox Featu	res				_		
(inches) Color (moist) %	Color (moist)	%	Type'	Loc ²			Remar	ks	
0-20 10YR 4/2 95	10YR 3/4	5	C	PL	Silty Clay				
<u> </u>									
<u> </u>									
<u> </u>									
-									
-									
	Deduced Metric O								1 - tuite
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, C	S=Covered	or Coate	d Sand Gr	ains. ² Lo	cation: PL=I	Pore Lini	ng, M=N	
lydric Soil Indicators:			· (CO) /I F			ors for Prob	lematic I	Hydric S	Solls":
Listic Enireden (AQ)		How Surrac	:e (58) (Lf	(K 5, 1, U)		UCK (A9) (LF			
L Histic Epipedon (A2)		Itace (59) (, U) C)		UCK (A10) (L	.KK 5) 0) (auta:		
$\square \text{Black Histic (A3)}$		y Mineral (F1) (LKK	0)		ed Ventic (Fi	8) (outsi Soile (F		A 150A,8
<u> Hydrogen Sunde (A4)</u> Stratified Lavera (A5)		triv (E2)	-2)			ni Fiooupiai		-19) (LR	к г, э, і
		uix (F3) Surface (F(2)			1005 DIIGNT L	Joanny 50	ms (F20)
\Box Organic Bodies (A6) (LRR P, I, U)		Sunace (Fr) (EZ)		(WLI	(A 1536)			
			(F7)			allow Dark	i (IFZ) Surfaca (TE12)	
$\Box 1 \text{ cm Muck (AQ)} (I PP P T)$		DD II)	')			Evolain in R	Sunace (11-12)	
$\square \text{ Depleted Below Dark Surface (A11)}$		hric (E11) (MI PA 15	1)			finarks)		
\Box Thick Dark Surface (A12)		ese Masse	s (F12) (I	יי RROP1					
Coast Prairie Redox (A16) (MI RA 150A)	Umbric Surfa	ce (F13) (I		U)	³ Indicat	ors of Hydro	phytic ve	getation	and
Sandy Mucky Mineral (S1) (LRR O. S)	Delta Ochric	(F17) (ML	RA 151)	0,	disturbe	a nyarology r ad or probler	nust be p natic.	oresent,	uniess
\square Sandy Claved Matrix (S4)		(F18) (MI RA 150	A 150B)					
□ Sandy Gleyed Matrix (S4) □ Sandy Redox (S5)	Piedmont Flo	odolain Sc	oils (F19) (MLRA 149)A)				
□ Sandy Gleyed Matrix (S4) □ Sandy Redox (S5) □ Stripped Matrix (S6)	Piedmont Flo Anomalous E	oodplain Sc Bright Loan	oils (F19) (ny Soils (F	MLRA 149 20) (MLRA)A) \ 149A, 153C, 1	153D)			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo Anomalous E	oodplain Sc Bright Loam	bils (F19) (ny Soils (F	MLRA 149 20) (MLRA	0A) \ 149A, 153C, 1	153D)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Charles Surface (S7) (LRR P, S, T, U)	Piedmont Flo	bodplain Sc Bright Loam	bils (F19) (ny Soils (F	MLRA 149 20) (MLRA	0A) A 149A, 153C, 1	153D)			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	bodplain Sc Bright Loam	ny Soils (F	MLRA 149 20) (MLRA	0A) A 149A, 153C, 1	153D)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Cestrictive Layer (if observed): Type:	Piedmont Flo	bodplain Sc Bright Loarr	his (F19) (hy Soils (F	MLRA 149 20) (MLRA 	0A) \ 149A, 153C, 1 esent?	153D) Yes		No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	bodplain Sc Bright Loarr	hils (F19) (hy Soils (F	MLRA 149 20) (MLRA ric Soil Pr	0A) \ 149A, 153C, 1 esent?	Yes	V	_ No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA ric Soil Pr	0A) \ 149A, 153C, 1 esent?	Yes	V	_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA	0A) \ 149A, 153C, 1 esent?	Yes		No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA	9A) A 149A, 153C, 1 esent?	Yes	V	_ No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA ric Soil Pr	9A) \ 149A, 153C, 1 esent?	Yes	V	No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA	0A) \ 149A, 153C, 1 esent?	Yes	V	_ No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA	9A) \ 149A, 153C, 1 esent?	Yes		_ No	
Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA	9A) \ 149A, 153C, 1 esent?	Yes		_ No	
Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA	9A) \ 149A, 153C, 1 esent?	Yes		No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loarr	Hyd	mLRA 149 20) (MLRA ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loar	Hyd	ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA	9A) A 149A, 153C, 1 esent?	Yes		No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loar	Hyd	MLRA 149 20) (MLRA ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA	9A) \ 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA ric Soil Pr	9A) \ 149A, 153C, 1 esent?	Yes		_ No	
Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Piedmont Flo	Bright Loarr	Hyd	MLRA 149 20) (MLRA ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	ric Soil Pr	9A) A 149A, 153C, 1 esent?	Yes		_ No	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Piedmont Flo	Bright Loarr	Hyd	ric Soil Pr	0A) A 149A, 153C, 1 esent?	Yes		_ No	







Photo 93: Plot 19 – Vegetation facing east





Photo 95: Plot 19 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	_ City/County: <u>St. Martin Parish</u> Sampling D	Date: 06/07/2022
Applicant/Owner: One Acadiana	State: LASampl	ing Point: 20
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Ridge Low	cal relief (concave, convex, none): Convex	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.290105	5° Long: <u>-91.924972°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes 🔽 No 🗌 (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly disturbed	d? Are "Normal Circumstances" present?	Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Ren	narks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: -	Yes <u></u> No <u></u> Is t Yes <u></u> No <u></u> with Yes <u></u> No <u></u>	he Sampled Area hin a Wetland?	Yes	No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required:	<u>check all that apply)</u> Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on L Presence of Reduced Iron ((Recent Iron Reduction in Till Thin Muck Surface (C7) Other (Explain in Remarks)) iving Roots (C3) C4) ed Soils (C6)	Secondary Indicato Surface Soil C. Sparsely Vege Drainage Patte Moss Trim Lind Dry-Season W Crayfish Burror Saturation Visi Geomorphic Patter Shallow Aquita FAC-Neutral T Sphagnum mo	rs (minimum of two required) racks (B6) tated Concave Surface (B8) erns (B10) es (B16) fater Table (C2) ws (C8) ble on Aerial Imagery (C9) osition (D2) urd (D3) est (D5) ss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	☑ Depth (inches): ☑ Depth (inches): ☑ Depth (inches):	Wetland Hydro	blogy Present?	Yes 🗌 No 🗹
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous in	spections), if availa	able:	

Sampling Point

20

The Balance Production Absolute Dominant Includer Number of Dominant Species (A) 5 Practicus pernoglymenta (Green Ash) 0 yes FAC 6 0 res FAC 0 yes 6 0 res FAC 0 yes 7 0 yes FAC 0 yes 8 0 res For any other of Dominant Species 6 (A) 9 50 % of total cover: 10 res 10 (A) 3 0 yes FAC 0 x1 10 (A) 3 0 yes FAC 0 x1 10 (A) 10 (A) 10 Yes FAC FAC species 0 x1 10 Yes FAC Species 0 x1 10 Yes FAC Species 0 x1 10 Yes FAC Species 0 x1 10 Yes FAC Species 0 x1 10 Yes FAC Species 0 x1 <					Dominance Test worksheet:
Interesting Soldieses Seldieses Seldieses <td></td> <td>Absolute</td> <td>Dominant</td> <td>Indicator</td> <td></td>		Absolute	Dominant	Indicator	
Image pendsyndhicit (content Ash) 40 ves FAC 20exrus pendsyndhicit (content Ash) 30 ves FAC 3. no no FAC 3. no res FAC 3. no no FAC 5. no no FAC 6. no no Fereige of Dominant Species 5. no FAC FAC 6. no Fereige of Dominant Species 100 70 = Total Cover 14 Fereige for Status Multiply by: 50 % of total cover: 14 Fereige for Status No Yes 6. no Cover 3 FAC FAC 7. no Cover 3 Fereige for Status No Yes 6. no Cover 3 Fereige for Status No Yes 7. no Cover 3 Fereige for Status No No 6.	Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
2 Columner (number / Dail) 30 yes FAC 4.	1. Fraxinus pennsylvanica (Green Ash)	40	yes	FACW	That Are OBL, FACW, or FAC: 0 (A)
3.	2. Quercus nigra (Water Oak)	30	yes	FAC	
4.	3		no		Total Number of Dominant
5.	4		no		Species Across All Strata: 0 (B)
6.	5.		no		
Total Total Cover Interver Interver <thinterver< th=""> <thinterver< th=""> <thinterve< td=""><td>6.</td><td></td><td>no</td><td></td><td>Percent of Dominant Species</td></thinterve<></thinterver<></thinterver<>	6.		no		Percent of Dominant Species
50 % of total cover: 35 20 % of total cover: 14 Saping Stratum (Plot size: 30t 15 YES FAC 3		70	= Total Cov	/er	Inat Are OBL, FACW, or FAC: 100 (A/B)
Spring Stratum (Plot size:	50 % of total cover: 35	20 % (of total cover	· 14	Prevalence Index worksheet
Septing Stratum (Plot size:					Total % Cover of: Multiply by:
Detroit of the structure Dote species 15 yes FAC 2 no FAC Species 10 X 3 = 40 4 no no FAC Species 10 X 3 = 40 5 no no FAC Species 0 X 4 = 0 6 no no no Column Totals: 200 (A) 30 (B) 7 So % of total cover: 8 20 % of total cover: 3 Therealence Index = B/A = 2.65 Hydrophytic Vegetation Indicators: 10 Yes FACW Providence Test is 3 0% 10 Providence Test is is 30% 10 10 10 Yes FAC Providence Test is 3 0% 10 <td< td=""><td>Sanling Stratum (Plot size: 30ft)</td><td></td><td></td><td></td><td>OBI species 10 x1 = 10</td></td<>	Sanling Stratum (Plot size: 30ft)				OBI species 10 x1 = 10
Decimination (reaction) To Yes PACW species So X 2 = 100 3.	1 Ouercus pigra (Water Oak)	15	Was	EAC	OBE species 10 X I = 10
2.		15	yes	FAC	FACW species 50 X 2 = 100
3.	2		no		FAC species 140 X 3 = 420
4.	3		no		FACU species 0 X 4 = 0
5.	4		no		
6.	5		no		OPL species 0 X 3 = 0
15 = Total Cover 50 % of total cover: 3 Shrub Stratum (Plot size:	6.		no		Column Totals: <u>200</u> (A) <u>530</u> (B)
50 % of total cover: 8 20 % of total cover: 3 Prevalence Index = B/A = 2.65 Shrub Stratum (Plot size: 30f) 10 Yes FACW III. 10 Yes FACW 1. Frainus pennsylvanica (Green Ash) 10 Yes FACW III. 10 Yes Providence Test is > 5.0% 3. III. III. III. III. III. Providence Test is > 3.01 III. Providence Test is > 5.0% 6. III. IIII. IIIII. IIIII. IIIII. IIIIIIIII. IIIII. IIIIIIIIIIIIIIIIIIIIIIIIIIIII		15	= Total Cov	/er	
bit is the late term	50 % of total cover: 8	20 % (of total cover	3	Prevalence Index = P/A = -2.65
Shrub Stratum (Plot size:30t)		20 /00			rrevalence index = B/A = 2.00
Construction (p to size	Shruh Stratum (Plot size: 30ft)				Hydrophytic Vegetation Indicators:
1 U YES PALW Image: particular partener particular partener pa	1 Fravinus pennsylvanica (Green Ach)	10		EACIAL	1 – Rapid Test for Hydrophytic Vegetation
2.		10	yes	FACW	☑ 2 – Dominance Test is > 50%
3.	2		no		$\boxed{1}$ 3 – Prevalence Test is < 3 0 ¹
4.	3		no		$\square \square \square \square \square \square \square \square \square \square $
5.	4		no		
6.	5.		no		
10 = Total Cover 50 % of total cover: 5 20 % of total cover: 2 10 = Total Cover 20 % of total cover: 2 Herb Stratum (Plot size: 30ff 70 Yes 4. 0 5. 0 7. Yes 7. Yes 8. 0 9. 0 10. 0 <td>6.</td> <td></td> <td>no</td> <td></td> <td>- Indicators of hydric soil and wetland hydrology must</td>	6.		no		- Indicators of hydric soil and wetland hydrology must
50 % of total cover: 2 Herb Stratum (Plot size:30f) 1. Opismenus hirtellus (Long-Leaf Basket Grass) 70 Yes FAC 2. Campsis radicans (Trumpet-Creeper) 25 Yes FAC 3. Persicaria hydropiperoides (Swamp Smartweed) 10 no OBL 4.		10	- Total Cov	/er	Definitions of Venetation Strates
B0 % of Ixlaf Lover. 0 20 % of Ixlaf Lover. 1 Yes Stratum (Plot size:	EQ. % of total power: 5	20.9/	= total cover	. 2	Definitions of vegetation Strata:
Herb Stratum (Plot size:30ft) 1. Oplismenus hirtellus (Long-Leaf Basket Grass) 70 Yes FAC 2. Campsis radicans (Trumpet-Creeper) 25 Yes FAC 3. Persicaria hydropiperoides (Swamp Smartweed) 10 no OBL 4		20 % 0			Tree – Woody plants, excluding woody vines
Hero stratum (Poliszer	Uash Ctratum (Plataina) 20th)				approximately 20 ft (6 m) or more in height and 3 in.
1. Opismenus Intellus (Long-Lear basket Grass) 70 yes FAC 3. Persicaria hydropiperoides (Swamp Smartweed) 10 no OBL 4. no no Bapproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. no no Bapproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 7. no no Bapproximately 20 ft (6 m) in height. 7. no no Bapproximately 20 ft (16 m) in height. 8. no no Bapproximately 20 ft (16 m) in height. 9. no no Bapproximately 20 ft (16 m) in height. 10. no no Bapproximately 20 ft (16 m) in height. 11. no no Bapproximately 20 ft (16 m) in height. 11. 105 = Total Cover 21 12. 00 ft mo Hydrophytic 2. no no Bapproximately 20 ft (16 m) in height. 12. no no Bapproximately 20 ft (16 m) in height. 13. no no Bapproximately 20 ft (16 m) in height. 2. S0 % of total cover:	Herb Stratum (Plot size: <u>30ft</u>)	70			(7.6 cm) or larger in diameter at breast height (DBH).
2. Campsis radicans (Trumpet-Creeper) 25 yes FAC Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3	1. Oplismenus nirtelius (Long-Leaf Basket Grass)	70	yes	FAC	-
3. Persicaria hydropiperoides (Swamp Smartweed) 10 no OBL approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 4. no no no approximately 3 to 20 ft (1 to 6 m) in height. 6. no no approximately 3 to 20 ft (1 to 6 m) in height. 7. no no approximately 3 to 20 ft (1 to 6 m) in height. 8. no no approximately 3 to 20 ft (1 to 6 m) in height. 9. no no approximately 3 to 20 ft (1 to 6 m) in height. 10. no no approximately 3 to 20 ft (1 to 6 m) in height. 11. no no approximately 3 to 20 ft (1 to 6 m) in height. 11. no no approximately 3 to 20 ft (1 to 6 m) in height. 12. 105 = Total Cover 21 Woody Vine Stratum (Plot size:	2. Campsis radicans (Trumpet-Creeper)	25	yes	FAC	Sapling – Woody plants, excluding woody vines,
4.	3. Persicaria hydropiperoides (Swamp Smartweed)	10	no	OBL	approximately 20 ft (6 m) or more in height and less
5.	4.		no		than 3 in. (7.6 cm) DBH.
6.	5.		no		Shruh Woody plants, excluding woody vines
7.	6.		no		approximately 3 to 20 ft (1 to 6 m) in height
Image: Section of the system of the syste	7		<u></u>	-	
0.	· · · · · · · · · · · · · · · · · · ·		110		Herb – All herbaceous (non-woody) plants, including
9.	8		no		herbaceous vines, regardless of size. Includes woody
10. no $3 \text{ ft} (1 \text{ m}) \text{ in height.}$ 11. 105 $= \text{Total Cover}$ 21 Woody Vine Stratum (Plot size:30f) 1 1 2. no no 105 3. no 105 105 2. no 105 105 3. 105 105 105 3. 105 105 105 3. 105 105 105 3. 105 100 105 3. 100 105 100 3. 100 100 100 3. 100 10	9		no		plants, except woody vines, less than approximately
11.	10	·	no		3 ft (1 m) in height.
IO5 = Total Cover 50 % of total cover: 53 20 % of total cover: 21 Woody Vine Stratum (Plot size: 1.	11.		no		
50 % of total cover: 53 20 % of total cover: 21 Woody Vine Stratum (Plot size: 30ft 1 Yegetation 2.		105	= Total Cov	/er	Woody vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size:30ft) 1	50 % of total cover: 53	20 % 0	of total cover	21	
Woody Vine Stratum (Plot size:30ft) Hydrophytic 1.				·	-
1.	Woody Vine Stratum (Plot size: 30ft)				Liveren hydio
10 10 Vegetation 2. no no 3. no no 4. no no 5. 0 = Total Cover 50 % of total cover: 0 20 % of total cover: 0	1		20		Negotation
2.	··		110		Present? Ves V No
3.	2.		no		
4.	3		no		
5.	4		no		.
0 = Total Cover 50 % of total cover: 0 20 % of total cover: 0 Remarks: (Include photo numbers here or on a separate sheet.)	5		no		
50 % of total cover: 0 20 % of total cover: 0 Remarks: (Include photo numbers here or on a separate sheet.)		0	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate sheet.)		00.0/		. 0	
Remarks: (Include photo numbers here or on a separate sheet.)		20 % (or local cover		•
	Remarks: (Include photo numbers here or on a separate	sheet.)			
		,			

SOIL				Sampling	Point:		20
Profile Description: (Describe to the depth	needed to document the indi	cator or confirm the	e absence of in	dicators.)			
Depth Matrix	Redox Features						
(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²			Remar	ks	
0-20 10YR 5/3 100	0						
-							
¹ Type: C-Concentration D-Depletion RM-F	Reduced Matrix CS-Covered o	r Coated Sand Grain	s ² l ocati	on PI-E	ore Linir	na M-M	latriv
		Coaled Sand Grains	s. Local			ig, ivi–iv	
Hydric Soil Indicators:			Indicators	for Proble	ematic F	lydric S	soils ³ :
□ Histosol (A1)	Polyvalue Below Surface ((S8) (LRR S, T, U)	□ 1 cm Mucł	k (A9) (LR	R 0)		
□ Histic Epipedon (A2)	□ Thin Dark Suface (S9) (LF	RR S, T, U)	<u>2</u> cm Muck	(A10) (L l	RR S)		
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced \	/ertic (F18	8) (outsi o	de MLR	A 150A,B)
□ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Piedmont	Floodplair	i Soils (F	19) (LR	R P, S, T)
□ Stratified Layers (A5)	Depleted Matrix (F3)		<u></u> Anomalou	s Bright Lo	bamy So	ils (F20))
Organic Bodies (A6) (LRR P, T, U)	□ Redox Dark Surface (F6)		(MLRA	153B)			
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F	7)	Red Parer	t Material	(TF2)		
□ Muck Presence (A8) (LRR U)	Redox Depressions (F8)		□ Very Shall	ow Dark S	Surface (TF12)	
□ 1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)		Other (Exp	lain in Re	marks)		
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MI	_RA 151)					
□ Thick Dark Surface (A12)	□ Iron Manganese Masses (F12) (LRR O, P, T)	³ Indicators	of Hydror	ohvtic ve	aetation	and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LR	R P, T, U)	wetland hy	drology m	nust be p	resent,	unless
□ Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA	. 151)	disturbed of	or problem	natic.		
□ Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (ML	RA 150A, 150B)					
□ Sandy Redox (S5)	Piedmont Floodplain Soils	(F19) (MLRA 149A)					
Stripped Matrix (S6)	Anomalous Bright Loamy	Soils (F20) (MLRA 1 4	49A, 153C, 153	D)			
Dark Surface (S7) (LRR P, S, T, U)							
Restrictive Layer (if observed):							
Туре:							
Depth (inches):	_	Hydric Soil Prese	ent?	Yes		No	✓
	_						
Remarks:							



Photo 96: Plot 20 - Soil sample





Photo 98: Plot 20 – Vegetation facing east





Photo 100: Plot 20 – Vegetation facing west

Project/Site: Breaux Bridge I-10 Site	City/County: St. Martin Parish Sampl	ing Date: <u>06/07/2022</u>
Applicant/Owner: One Acadiana	State: LASa	ampling Point: <u>21</u>
Investigator(s): Elliot B., Will T.	Section, Township, Range: <u>38, T09S, R05E</u>	
Landform (hillslope, terrace, etc.) Depression	Local relief (concave, convex, none): Concave	Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR O Lat: 30.2894	451° Long: <u>-91.926066°</u>	Datum: WGS 84
Soil Map Unit Name: Gallion-Perry complex, gently undulating	NWI Classification: None	
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes 🗹 No 🗌 (If no, explain in Remai	rks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" prese	ent? Yes 🗹 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in	Remarks.)

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes	is the Sampled Area within a Wetland?	Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; of a surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iror Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	Second ☑ St ☑ St ☑ St ☑ St ☑ St □ Dr n Living Roots (C3) □ n (C4) □ Cr Tilled Soils (C6) □ St ☑ Gr St □ F4 □ □ St □	dary Indicators (minimum of two required) urface Soil Cracks (B6) barsely Vegetated Concave Surface (B8) rainage Patterns (B10) oss Trim Lines (B16) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) obagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) No Describe Recorded Data (stream gauge, monitor)	1 Depth (inches):	Wetland Hydrology P S inspections), if available:	resent? Yes <u>√</u> No <u></u>
Remarks:			

Sampling Point

21

_

				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Fraxinus pennsylvanica (Green Asn)	50	yes	FACW	That Are OBL, FACW, or FAC: 5 (A)
2. Quercus nigra (water Oak)	25	yes	FAC	
3. Iriadica sebifera (Chinese Tallowfree)	10	no	FAC	For the second s
4		no		Species Across Air Strata (B)
5		no		Percent of Dominant Species
6		no		That Are OBL FACW, or FAC: 100 (A/B)
	85	= Total Cov	er	
50 % of total cover: 43	20 % c	of total cover:	17	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species <u>60</u> x 1 = <u>60</u>
1. Triadica sebifera (Chinese Tallowtree)	10	yes	FAC	FACW species 50 X 2 = 100
2		no		FAC species 45 X 3 = 135
3		no		EACU species 0 X 1 = 0
4		no		
5		no		$UPL species 0 \qquad X \ 5 = 0$
6.		no		Column Totals: <u>155</u> (A) <u>295</u> (B)
	10	= Total Cov	er	
50 % of total cover: 5	20 % c	of total cover:	2	Prevalence Index = $B/A = 1.9$
				Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 30ft)				
1.		no		
2.		no		U 2 – Dominance Test is > 50%
3.		no		$\boxed{\square}$ 3 – Prevalence Test is $\leq 3.0^1$
4.		no		Problematic Hydrophytic Vegetation ¹ (Explain)
5.		<u></u>		
6		<u></u>		¹ Indicators of hydric soil and wetland hydrology must
-	0	- Total Cov		be present, unless disturbed or problematic.
50 % of total cover:	20.%	= 10tal 000	0	Definitions of Vegetation Strata:
	20 % C	n lotal cover.		Tree – Woody plants, excluding woody vines
Herb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1 Phanopyrum gymnocarpon (Sayannah-Panic Grass)	40	VAS	OBI	(7.6 cm) or larger in diameter at breast height (DBH).
2 Saururus cerouus (Lizard's-Tail)	20	<u>yes</u>		- Contine - March electro evolution
		<u>yes</u>	OBL	approximately 20 ft (6 m) or more in height and less
۸		<u> </u>		than 3 in. (7.6 cm) DBH.
т 5		<u> </u>		
6		<u> </u>		Shrub – Woody plants, excluding woody vines,
7		<u></u>		approximately 3 to 20 ft (1 to 6 m) in height.
7		no		Herb – All herbaceous (non-woody) plants including
8.		no		herbaceous vines, regardless of size. Includes woody
9.		no		plants, except woody vines, less than approximately
10		no		3 ft (1 m) in height.
11		no		Woody vine - All woody vines regardless of height
	60	= Total Cov	er	
50 % of total cover: 30	20 % c	of total cover:	12	.
Woody Vine Stratum (Plot size: <u>30ft</u>)				Hydrophytic
1		no		Vegetation
2		no		Present? Yes 🗹 No 🗌
3		no	. <u></u>	.
4		no		.
5		no		.
	0	= Total Cov	er	
50 % of total cover: 0	20 %	of total cover:	0	
			-	-
Remarks: (Include photo numbers here or on a separate s	sheet.)			

SOIL								Sampling I	Point:	2	21
Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator c	or confirm	the absence o	of indicators.)			
Deptn (inches)	Color (moist)	0/	Color (moist)	edox Featu	Ires Type ¹	\log^2			Pomarka	e	
				10					Ttemark	2	
0-20	101R 5/2	90	101 K 5/8	10	<u> </u>		Silty Clay				
				·							
					. <u> </u>						
				·							
				· ·							
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covere	d or Coate	d Sand Gra	ains. ² Lo	ocation: PL=P	ore Lining	g, M=Ma	atrix.
Hydric Soil	Indicators:						Indicat	ors for Proble	matic H	vdric Sc	oils ³ .
□ Histosol ((A1)		Polvvalue Be	elow Surfa	ce (S8) (LF	RR S. T. U)		luck (A9) (LRF	R O)		
□ Histic Epi	ipedon (A2)		□ Thin Dark Su	uface (S9)	(LRR S. T	.U)	□ 2 cm N	/luck (A10) (LR	(RS)		
Black His	tic (A3)		Loamy Muck	v Mineral	(F1) (LRR) O)	□ Reduc	ed Vertic (F18)) (outside	e MLRA	150A,B)
□ Hydroger	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)	,	D Piedm	ont Floodplain	Soils (F1	9) (LRR	P, S, T)
□ Stratified	Layers (A5)		Depleted Ma	atrix (F3)				alous Bright Lo	amy Soils	s (F20)	
Organic E	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(ML	RA 153B)			
<u> </u>	cky Mineral (A7) (L l	RR P, T, U)	Depleted Da	rk Surface	(F7)		□ Red Pa	arent Material	iterial (TF2)		
<u> </u>	esence (A8) (LRR L	J)	<u> </u>	essions (F	Very S	ery Shallow Dark Surface (TF12)					
<u> </u>	ck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			□ Other	(Explain in Rer	narks)		
	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 15	1)					
L Thick Da	rk Surface (A12)		Iron Mangan	ese Masse	³ Indicators of Hydrophytic vegetation and				and		
	airie Redox (A16) (I			wetland hydrology must be present, unless				nless			
	ucky Milleral (ST) (loved Matrix (S4)	LKK 0, 3j		rtic (E18) (.KA 131) MI DA 150	A 150B)	uisturb		alic.		
Sandy B	radox (S5)			nuc (1 10) (nodolain S		MIRA 149					
□ Stripped	Matrix (S6)			Bright Loar	mv Soils (F	20) (MLRA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	153D)			
Dark Sur	face (S7) (LRR P, S	S, T, U)					,	,			
		,									
Restrictive I	aver (if observed).									
Type.	Layer (il observeu).									_
Depth (in	ches).				Hyd	ric Soil Pro	esent?	Yes	\checkmark	No _	
Deptil (ill											
Remarks:											



Photo 101: Plot 21 - Soil sample



Photo 102: Plot 21 – Vegetation facing north Breaux Bridge I-10 Site



Photo 103: Plot 21 – Vegetation facing east





Photo 105: Plot 21 – Vegetation facing west



Photo 106: OW-1, Facing west



Photo 107: OW-1, Facing east



Photo 108: OW-2, Facing west



Photo 109: OW-2, Facing east



Photo 110: OW-3, Facing north



Photo 111: OW-3, Facing south



Photo 112: OW-4, Facing west