# Exhibit EE. Bratton Family Farms Wetlands Delineation Report







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SENT VIA EMAIL

December 4, 2017

Mr. Zach Hager One Acadiana 804 East St. Mary Blvd. Lafayette, LA 70503

RE: Wetland Delineation Report Bratton Family Farms Site Crowley, Louisiana

Dear Mr. Hager:

Arabie Environmental Solutions, LLC is pleased to provide this electronic copy of the Wetland Delineation Report for the referenced property. A copy of this report can been submitted to the Corps of Engineers with a request for a preliminary wetland determination upon your review and approval.

If you have any questions or need a bound copy of the report, please do not hesitate to contact us. We appreciate the opportunity to provide this service for you.

Sincerely,

C. Blaine Johnson, P.E. Senior Engineer

Attachment

## Bratton Family Farms Wetlands Delineation Report

#### WETLAND DELINEATION BRATTON FAMILY FARMS SITE CROWLEY, ACADIA PARISH, LOUISIANA

Prepared for:

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

December 1, 2017

C. Blaine Johnson P.E. Senior Engineer

Cleveland R. Hoffpauir

Environmental Scientist

Prepared by:

Arabie Environmental Solutions, LLC P.O. Box 928 Lake Charles, Louisiana 70602 (337) 436-3248

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## SUMMARY

An approximate 18-acre tract located adjacent south to Lisa Drive in Crowley, Acadia Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the U.S. Department of the Army Corps of Engineers (COE) 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plain Regional Supplement 2010. Soils present of the property consisted of Crowley silt loam, 0 to 1 percent slopes. The tract is primarily herbaceous, dominated by Carpet Grass and Smut Grass with a few Chinese Tallow seedlings scattered throughout. Loblolly Pine and Eastern Red Cedar are present along fence rows. The investigated property is well drained and did not demonstrate characteristics typical of wetlands.

Based on the results of this delineation, no wetlands were identified on the tract. A drainage ditch is located along the eastern property boundary. This drain will likely be considered "other waters" by the COE

## **1.0 INTRODUCTION**

Arabie Environmental Solutions, LLC (Arabie Environmental) was retained to conduct a wetland delineation of property located 0.2 mile north of Interstate 10 in Crowley, Acadia Parish. The property is located in Sections 28 and 43, Township 9 South, Range 1 East. The center of the property is located at Latitude 30° 14' 22.48" Longitude 92° 22' 19.67". The purpose of the delineation was to evaluate the tract for the potential presence of wetlands. A site location map is included as **Figure 1** and a site diagram is included as **Figure 2**. LIDAR imagery was also reviewed and is included as **Figure 3**.

Cleve Hoffpauir of Arabie Environmental performed the field evaluation on November 28, 2017. Mr. Hoffpauir has a Bachelors of Science Degree in Environmental Science and has had specialized training in environmental investigations. Mr Hoffpauir has been performing wetland delineations for approximately ten years. Blaine Johnson managed the project. Mr. Johnson has over twenty-five years experience in environmental investigation and permitting, with over fifteen years experience in wetland permitting. Copies of the applicable Certificates of Training are included as **Attachment A**.

## 2.0 METHODOLOGY

The wetland delineation performed by Arabie Environmental was conducted in accordance with technical guidelines and methods for wetland delineations set forth by the COE in the 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plains Regional Supplement 2010. These technical guidelines and methods utilize a multi-parameter approach to identify and delineate wetlands for the purposes of Section 404 of the Clean Water Act.

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

**Hydrophytic vegetation** – the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content. When hyrophytic vegetation comprises a community where indicators of hydric soils and wetland hydrology also occur, the area has wetland vegetation.

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

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

Prior to the site visit, the Acadia Parish Soil Survey prepared by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) was reviewed. The purpose of that review was to determine the soil types as mapped by USDA. As indicated by the Soil Survey for Acadia Parish, soils on the delineated site include one soil type: Crowley silt loam, 0 to 1 percent slopes (CrA). CrA soils are not listed as hydric in Acadia Parish. In addition to the soils map, an infrared aerial photograph was also reviewed. The soils map and infrared photograph is included as **Attachment B**.

The delineation was begun by traversing the site and making a general evaluation of the topography and drainage features. Sample points were selected at appropriate locations to properly characterize the soil, vegetation, and hydrology. Five representative sample points were selected and detailed evaluations were conducted at these locations. The data collected at these sample points were recorded on Wetland Data Forms. The Wetland Data Forms are included as **Attachment C**.

## 3.0 SITE DESCRIPTION

The delineated property is undeveloped and currently utilized for cattle pasture. The surrounding properties consists of residential development and agriculture. The investigated property is irregular in shape and encompasses approximately 18 acres. The soil type as mapped by USDA-NRCS consists of Crowley silt loam, 0 to 1 percent slopes. This soil type is not listed as hydric soil in Acadia Parish. Vegetation on the property is primarily herbaceous with trees located along existing fence lines. The property is well drained and did not demonstrate wetland characteristics. A large drainage ditch is present

along the eastern property boundary. This drain will likely be considered Section 404 Waters of the U.S.

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

## 4.0 FINDINGS

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

## 4.1 VEGETATION

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

UPLAND

Rosa bracteata (Macartney Rose)

## FACULTATIVE UPLAND

Juniperus virginiana (Eastern Red Cedar) Sporobolus indicus (Smut Grass) Rubus triviallis (Southern Dewberry) Cynodon dactylon (Bermuda Grass)

FACULTATIVE

*Pinus taeda* (Loblolly Pine) *Triadica sebifera* (Chinese Tallow)

#### FACULTATIVE WETLAND

Axonopus fissifolius (Common Carpet Grass)

One of the five sample points had a dominance of hydrophytic vegetation.

## 4.2 SOILS

The review of the Soil Survey indicated that the delineated tract is located on one soil type: Crowley silt loam, 0 to 1 percent slopes.

The Crowley series consists of very deep, somewhat poorly drained, very slowly permeable soils that formed in clayey fluviomarine deposits of the Pleistocene age. These nearly level to very gently sloping soils occur on flat coastal plains terraces. Slope is dominantly less than 1 percent but ranges to 3 percent. This soil type is not listed as hydric in Acadia Parish.

## 4.3 HYDROLOGY

General observations and inspections of soil samples were performed to evaluate for wetland hydrology. Potential primary indicators include inundated areas, saturated soil in the upper 12 inches, free water in the soil, water marks, drainage patterns of wetlands, and sediment deposits. During the course of this delineation, no wetland hydrology indicators were observed on the property. One primary indicator or two secondary indicators has to be present for an area to have wetland hydrology.

## 5.0 CONCLUSIONS

An approximate 18-acre tract located south of Lisa Drive and north Interstate 10 in Crowley, Acadia Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the COE 1987 Manual for Wetland Delineations. Based on the results of this delineation, no wetlands were identified on the property.

The investigated property is comprised of one soil type: CrA. CrA soil is not listed as hydric in Acadia Parish. The property is relatively flat and gently slopes to the south. During the field investigation no wetland hydrology indicators were observed. The property is primarily herbaceous, dominated by Carpet Grass and Smut Grass, with a few Chinese Tallow seedlings scattered throughout. Trees are present along existing fence lines. The property is well drained and does not exhibit wetland characteristics.

Based on the results of this delineation no wetland were identified on the property. Approximately 976 linear feet of drainage ditch is located along the eastern property boundary. This drain will likely be considered "other waters" by the COE.

## FIGURE 1

Site Location Map



## FIGURE 2

Site Diagram



## FIGURE 3

LIDAR Imagery



## ATTACHMENT A

Certificates of Training

# Richard Chinn Environmental Training, Inc.

certifies that

# Cleve Hoffpauir

has successfully completed a

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

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



Richard Chinn, PWS, CET,

Richard Chinn Environmental Training, Inc. 804 Cottage Hill Way, Brandon, FL 33511-8098 1.800.427.0307 • FAX: 1.888.457.6331 • info@richardchinn.com • http://www.richardchinn.com

This training has been based in part on the U.S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1 (1987 manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.



EWOLCOTTS INC. 1988 LITHO IN U.S.A.

## ATTACHMENT B

Infrared and Soil Map



## ATTACHMENT C

Wetland Data Forms

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bratton Family Farms Property	_ City/County: Crowle	ey/Acadia	Sampling Date: 11/28/17
Applicant/Owner: One Acadiana		<sub>State:</sub> LA	Sampling Point: 1
Investigator(s); C. Hoffpauir	Section, Township, R	ange: 43, 9 South, 1 Ea	ast
Landform (hillslope, terrace, etc.); Flat (Pasture)	<ul> <li>Local relief (concave.</li> </ul>	convex.none): None	Slope (%); 0-1
Subregion (LRP or MLRA): LRR-T		Long: 560309.21	UTM NAD 83
Soil Map Unit Name: Crowley silt loam, 0-1% Slopes		NIM/Lelassifi	Datum
Are climatic / hydrologic conditions on the site typical for this time of	year? res <u></u> No		(emarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significan	tly disturbed? Are	e "Normal Circumstances"	present? Yes <u>~</u> No
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	problematic? (If r	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X No			
Hydric Soil Present? Yes No X	<ul> <li>Is the Sample</li> </ul>	ed Area	
Wetland Hydrology Present? Yes No x	within a Wetla	and? Yes	No <u>^</u>
Remarks:			
Area is Flat to Gently Sloping toward South.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y)	Surface Soil	Cracks (B6)
Surface Water (A1)	313)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	(15) (LRR U)	📙 Drainage Pa	itterns (B10)
Saturation (A3)	e Odor (C1)		ines (B16)
U Oxidized Rhizos	pheres along Living Roo	Dry-Season	Vvater Table (C2)
Drift Deposits (B2)	luced from (C4)		(c)
Algal Mat or Crust (B4)			Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqu	litard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	I Test (D5)
Water-Stained Leaves (B9)		🔲 Sphagnum r	noss (D8) <b>(LRR T, U)</b>
Field Observations:		<u>17 17 177 177</u>	15 15 19 30 18
Surface Water Present? Yes No X Depth (inch	es):		
Water Table Present? Yes <u>No X</u> Depth (inch	es):		
Saturation Present? Yes <u>No X</u> Depth (inch	es): 🛛 🗸	Vetland Hydrology Preser	nt? Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspectior	ns), if available:	
Remarks:			
Area Well Drained.			

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

Consuling	Daint
Sampling	POINT

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. Pinus taeda		Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
2		-		Total Number of Dominant
3		5 <del></del>		Species Across All Strata: <u>3</u> (B)
4	<u> </u>			Demonstrat Demission and Operation
5	203	57		That Are OBL_EACW_or EAC <sup>67</sup> (A/B)
6.		73		
7				Prevalence Index worksheet:
8		n. <del>-</del>		Total % Cover of:Multiply by:
· · · · · · · · · · · · · · · · · · ·	5	– Total Ca		OBL species x 1 =
25		= Total Co	ver 1	FACW species x 2 =
50% of total cover: 2.5	20% of	total cover	r: <u> </u>	FAC species x 3 =
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30</u> )				
1. <u>None</u>		3.		
2				
3				Column Totals: (A) (B)
4				Drevalence Index - D/A -
5.				
6	<u> </u>	2		Hydrophytic vegetation indicators:
7	-0	19		1 - Rapid Test for Hydrophytic Vegetation
1	•		· <u> </u>	2 - Dominance Test is >50%
8	<u> </u>	20	· <u> </u>	3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	r:	
Herb Stratum (Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Axonopus fissifolius	60	Yes	FACW	be present, unless disturbed or problematic.
2. Sporobolus indicus	30	Yes	FACU	Definitions of Four Vegetation Strata:
3 Triadica sebifera	2	No	FAC	5
3			51. <del></del> 5	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	-			height
5	-			inoight.
6		(		Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9		1		of size, and woody plants less than 3.28 ft tall.
10.				Mandu sing All wands since another than 2.20 ft in
11.				height
12				inoight.
12	92			
5004 states 48			vei 18.4	
	20% of	total cover		
Woody Vine Stratum (Plot size: 30 )				
1. None		3 <u>-</u>	·	
2		19		
3	103			
4				
5.		25	10	Hudronbutio
	• • • • • • •	– Total Co		Vegetation
E09/ official payor:		totol aqua		Present? Yes X No
	20% 0	total cove		
Remarks: (If observed, list morphological adaptations bel	OW).			

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	n the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Feature	s ,					
(inches)	Color (moist)		Color (moist)		<u>Type</u>	Loc <sup>2</sup>	Texture	<u></u>	Remarks	<u> </u>
0-6	10YR 4/3	98	7.5YR 4/6	2	<u>C</u>	<u>M</u>	Silt Loam			
6-16	10 <b>YR</b> 4/3	90	7.5YR 4/6	10	С	Μ	Silt Loam			
	85	-120 <del>7 - 1</del> 2			797 *			2		
	<u>2</u>	-33 <b></b>	n		-	c	<u>1) (1</u>	i:		
	9 7	· — · · ·			· · · · · · · · · · · · · · · · · · ·					
	~							1.		
		s. <u> </u>						0		
	<i>a.</i>		<i>"</i>		12.		2			
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=	=Reduced Matrix, MS	S=Masked	d Sand G	ains.	<sup>2</sup> Location:	PL=Pore Li	ining, M=Mat	rix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators	for Probler	matic Hydric	: Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) <b>(</b>	LRR S, T,	U) 🛄 1 cm N	luck (A9) <b>(L</b>	.RR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	irface (S9	(LRR S	T, U)	2 cm N	luck (A10) <b>(</b>	LRR S)	
🔲 Black Hi	stic (A3)		🔲 Loamy Mucky	y Mineral	(F1) <b>(LR</b>	R O)	Reduc	ed Vertic (F	18) <b>(outside</b>	MLRA 150A,B)
Hydroge	n Sulfide (A4)		🔲 Loamy Gleye	ed Matrix (	F2)		Piedm	ont Floodpla	ain Soils (F19	9) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Mat	trix (F3)				lous Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark S	Surface (F	-6)			RA 153B)		
5 cm Mu	cky Mineral (A7) <b>(LF</b>	RR P, T, U)	Depleted Dar	k Surface	(F7)			arent Materi	al (TF2)	
	esence (A8) (LRR U	)			8)			nallow Dark	Surface (TF	12)
	t Relow Dark Surfac	ο (Δ11)		. <b>KK U)</b> pric (E11)		51)		,⊏xpiain in r	(emarks)	
	irk Surface (A12)			ese Mass	(INEXA) es (E12)		T) <sup>3</sup> Indic	ators of hyd	Ironhytic ved	etation and
Coast Pr	airie Redox (A16) (N	ALRA 150/	A) Umbric Surfa	ce (F13)	(LRR P. 1	(LINK 0, 1 F. U)	, i, indic	land hydrolo	oav must be i	oresent.
Sandy M	lucky Mineral (S1) (I	RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ess disturbe	d or problem	atic.
📕 Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (	MLRA 1	50A, 150B	)			
🔲 Sandy R	edox (S5)		Piedmont Flo	odplain S	ioils (F19	(MLRA 1	49A)			
Stripped	Matrix (S6)		🔲 Anomalous B	Bright Loai	ny Soils	(F20) <b>(MLF</b>	RA 149A, 153C	, 153D)		
Dark Sur	face (S7) (LRR P, S	5, T, U)								
Restrictive L	.ayer (if observed):									
Type:								<b>B</b> 10	V.	X
Depth (inc	nes):						Hydric Soll	Present?	Yes	<u> </u>
Remarks:										

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bratton Family Farms Property	City/County: Crowley/	/Acadia	Sampling Date: 11/28/17
Applicant/Owner: One Acadiana		<sub>State:</sub> LA	Sampling Point: 2
Investigator(s). C. Hoffpauir	Section Township Rar	nge <sup>.</sup> 43, 9 South, 1 Ea	ast
Landform (billslope, terrace, etc.). Flat to Gently Sloping (Pastu	re) Local relief (concave, c	onvex none). None	Slope (%). 0-1
Subragion (LBB or MLBA): LRR-T	45383.23	ong: 560453.65	Olope (70) Dotum: UTM NAD 83
Crowley silt loam 0-1% Slopes	1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1	_ong	Datum
	Y		
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes <u>^</u> No	(If no, explain in F	(emarks.)
Are Vegetation No., Soil No., or Hydrology No. significa	Intly disturbed? Are "	Normal Circumstances"	present? Yes <u>No</u> No
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturall	y problematic? (If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ring sampling point lo	ocations, transects	, important features, etc.
Hudrophytic Vocatation Present? Voc No X			
Hydric Soil Present? Yes No X	Is the Sampled	Area	Y
Wetland Hydrology Present? Yes No X		nd? Yes	No <u>^</u>
Remarks:			
Area is Flat to Gently Sloping toward South			
Area is riat to dentity Stoping toward South	i		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required: check all that an	nlvì	Surface Soil	Cracks (B6)
Surface Water (A1)	(B13)		getated Concave Surface (B8)
High Water Table (A2)	(B15) (LRR U)		tterns (B10)
Saturation (A3)	de Odor (C1)	Moss Trim L	ines (B16)
Water Marks (B1)	ospheres along Living Roots	(C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	educed Iron (C4)	Crayfish Bu	rows (C8)
Drift Deposits (B3)	eduction in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	face (C7)	🔲 Geomorphic	Position (D2)
Iron Deposits (B5)	in Remarks)	🔲 Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	l Test (D5)
Water-Stained Leaves (B9)		🔟 Sphagnum r	noss (D8) <b>(LRR T, U)</b>
Field Observations:	17 M23		
Surface Water Present? Yes No Depth (inc	hes):		
Water Table Present? Yes <u>No </u> Depth (inc	hes):		
Saturation Present? Yes <u>No ^</u> Depth (inc	:hes): We	tland Hydrology Prese	nt? Yes No _^
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections	), if available:	
Remarks:			
Area Well Drained.			

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

			- 0
Samn	lina	Point:	
Janp	mig	i onit.	_990

30	Absolute	Dominant	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>50</u> )	<u>% Cover</u>	<u>Species</u>	<u>? Status</u>	Number of Dominant Species
		. <u> </u>		That Are OBL, FACW, or FAC: (A)
2	· · · · · · · · · · · · · · · · · · ·			Total Number of Dominant
3	la la contra da la c			Species Across All Strata: (B)
4	· ——	8		Percent of Dominant Species
0	(() <del></del> ()			That Are OBL, FACW, or FAC: <u>50</u> (A/B)
7	· <u> </u>		• ——•	Prevalence Index worksheet:
8	n (			Total % Cover of:Multiply by:
0	-11	- Total Co	ver	OBL species x 1 =
50% of total cover:	 20% of	total cove	r.	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30	2070 01		···	FAC species x 3 =
1 None				FACU species x 4 =
2	e		- C	UPL species x 5 =
3	00. <del></del>	,		Column Totals: (A) (B)
4				
5			<u> </u>	Prevalence Index = B/A =
6			·	Hydrophytic Vegetation Indicators:
7	(ii) <del></del>			1 - Rapid Test for Hydrophytic Vegetation
9.	·	2	·	2 - Dominance Test is >50%
<u> </u>	rð <u></u> s	- Total Co	vor	$-$ 3 - Prevalence Index is $\leq 3.0^{\circ}$
50% of total cover:		total cove		Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30	20 /0 01		la <u> </u>	1
A Axonopus fissifolius	60	Yes	FACW	Indicators of hydric soil and wetland hydrology must
2 Sporobolus indicus	30	Yes	FACU	Definitions of Four Vegetation Strata:
2. Cynodon dactylon	5	No	FACU	Deminions of Four Vegetation Otrata.
Andropogon virginicus	2	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
5	· · · · · · · · · · · · · · · · · · ·			height.
6				
7	•			Sapling/Snrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	00 <del></del>			
G	·			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
10	199 <b></b> 19		- 11 (	
11	50. <del></del>			Woody vine – All woody vines greater than 3.28 ft in beight
12				noight.
	97	= Total Co	ver	
50% of total cover: 48.5	 20% of	total cove	r: 19.4	
Woody Vine Stratum (Plot size: 30			···	
1 None				
2.	· · · · · · · · · · · · · · · · · · ·			
3			-30 <u></u> 33	
4				
5.	() () () () () () () () () () () () () (		• • • • • • • • • • • • • • • • • • •	Hudronbutin
	· ·	- Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	r:	Present? Yes <u>No X</u>
Remarks: (If observed, list morphological adaptations belo		10101 0010	··	
	<i>yw).</i>			

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	n the absence	of indicato	ors.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u>.</u>	Remarks	<u>.</u>
0-12	10YR 4/3	95	7.5YR 4/6	5	C	M	Silt Loam			
12-16	10YR 3/2	95	7.5YR 4/6	5	С	Μ	Silt Loam			
	<i>.</i>	-22			0. <del></del>		<del>a) a</del>	5		
	<del></del>		·			·		3		
	10 10 10	•	di di seconda di secon	·	( <del>.</del>	i ———		-		5 7
				130				8		,
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	- S=Maskec	I Sand G	ains.	<sup>2</sup> Location:	PL=Pore Li	ining, M=Mat	trix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	rwise not	ed.)		Indicators	for Proble	matic Hydric	: Soils <sup>3</sup> :
	(A1)		Polyvalue Be	low Surfa	ce (S8) <b>(</b>	LRR S, T, U	J) 🔲 1 cm N	/luck (A9) <b>(L</b>	.RR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	irface (S9)	(LRR S	T, U)	2 cm N	/luck (A10) (	LRR S)	
🔲 Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) <b>(LR</b> I	R O)	Reduc	ed Vertic (F	18) <b>(outside</b>	MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedm	ont Floodpla	ain Soils (F19	∋) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)				alous Bright	Loamy Soils	(F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)			RA 153B)		
5 cm Mu	cky Mineral (A7) (LI	RR P, T, U)		rk Surface	(F7)			arent Materi	al (TF2)	
	esence (A8) (LRR U	1)		essions (Fi	8)			Shallow Dark	(Surface (TF	12)
	CK (A9) (LKK P, T)	o (A11)		.KK U) bric (E11)		51)		(⊏xpiain in r	temarks)	
	rk Surface (A12)			ese Massi	(MERA ) es (F12)		T) <sup>3</sup> Indic	ators of hyd	tronhytic veg	etation and
Coast Pr	airie Redox (A16) (	VILRA 150	A) Umbric Surfa	ce (F13) (	LRR P. 1	(LINICO, I , F. U)	wet	and hydrolo	pay must be	present.
Sandy M	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)	., -,	unl	ess disturbe	d or problem	natic.
📕 Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (	MLRA 1	50A, 150B)			5	
📕 Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19	(MLRA 14	19A)			
Stripped	Matrix (S6)		Anomalous E	Bright Loar	ny Soils	(F20) <b>(MLR</b>	RA 149A, 153C	, 153D)		
Dark Sur	face (S7) <b>(LRR P, S</b>	S, T, U)	5							
Restrictive L	ayer (if observed):									
Туре:										v
Depth (inc	ches):						Hydric Soil	Present?	Yes	_ <u>No ^</u>
Remarks:										

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bratton Family Farms Property	City/County: Crov	vley/Acadia	_ Sampling Date: 11/28/17
Applicant/Owner: One Acadiana		<sub>State:</sub> LA	Sampling Point: 3
Investigator(s): C. Hoffpauir	Section, Township	. Range: 43, 9 South, 1 E	ast
Landform (hillslope, terrace, etc.); Flat to Gently Sloping (Pastu	ure) Local relief (conca	ve. convex. none): None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR-T	345521.14	Long: 560445.26	Datum: UTM NAD 83
Soil Map Unit Name: Crowley silt loam, 0-1% Slopes		Long	ication:
Are elimatic / hydrologic conditions on the site typical for this time	of year? Yes X	le (If no evoluin in	Pemarke )
Are climate in No. Sail No. as the dester in the size of the size	oryear: resr		remarks.)
Are vegetation, soil, or Hydrology signific			
Are vegetation <u>the</u> , Soli <u>the</u> , or Hydrology <u>the</u> natural	lly problematic?	If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sam	nlad Araa	
Hydric Soil Present? Yes No X	within a W	etland? Ves	No X
Wetland Hydrology Present? Yes No _x			
Remarks:			
Area is Flat to Gently Sloping toward South	ì.		
		Os sen den de di	
Wetland Hydrology Indicators:		Secondary India	Cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap			II Cracks (B6)
Surface Water (A1) Aquatic Fauna			egetated Concave Surface (B8)
A High Water Table (A2) A Main Deposits	(BIS) (LKK U)		Lipes (B16)
Mater Marks (B1)	nue Ouor (CT) zospheres along Living F		Mater Table (C2)
Sediment Denosits (B2)	Reduced Iron (C4)		Irrows (C8)
Drift Deposits (B3)	teduction in Tilled Soils (	C6) Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Irface (C7)	Geomorphi	c Position (D2)
Iron Deposits (B5) 🛛 Other (Explain	n in Remarks)	Shallow Aq	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	al Test (D5)
Water-Stained Leaves (B9)		🔲 Sphagnum	moss (D8) <b>(LRR T, U)</b>
Field Observations:			
Surface Water Present? Yes No X Depth (in	iches):		
Water Table Present? Yes No X Depth (in	iches):		X
Saturation Present? Yes <u>No X</u> Depth (in	iches):	Wetland Hydrology Prese	ent? Yes No_X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspec	tions), if available:	
Remarks:			
Area Well Drained.			

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

		- 0
Compling	Doint	- 3
Samping	FUIII.	207

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species	
1. None	<del></del>			That Are OBL, FACW, or FAC: 1 (A	4)
2	·			Total Number of Dominant	
3				Species Across All Strata: 2 (E	3)
4			. <u> </u>	Demonstrat Demois and On a size	
5.	200 U			That Are OBL_EACW or EAC 50 (A	A/B)
6					VD/
7.				Prevalence Index worksheet:	
8				Total % Cover of:Multiply by:	
· · .		– Total Co		OBL species x 1 =	
50% of total anyer:		total cover		FACW species x 2 =	
Serling (Chruh Chature (Dist size: 30	20 /0 0		•	FAC species x 3 =	
<u>Sapling/Shrub Stratum</u> (Plot size. <u></u> )				FACU species x 4 =	
			с <u> </u>	UPL species x 5 =	
2				Column Totals: (A)	(B)
3	···				(5)
4				Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6	····			1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8.				2 Demindred rest is 20070	
		= Total Cov	/er	Drahlemetic Lludrenhytic Mestetion <sup>1</sup> (Evaluit)	
50% of total cover:		total cover			
Herb Stratum (Diat size: 30	2070 01		· <u> </u>	1	
A Axononus fissifolius	60	Yes	FACW	Indicators of hydric soil and wetland hydrology mus	st
- Sporabolus indique		Voc	EACU	be present, unless disturbed of problematic.	
2. Operades destries		No.		Definitions of Four Vegetation Strata:	
			FACO	Tree - Woody plants, excluding vines, 3 in. (7.6 cm	) or
4. Andropogon virginicus	5	NO	FAC	more in diameter at breast height (DBH), regardless	s of
5. Rubus triviallis	2	No	FACU	height.	
6. Paspalum notatum	2	No	FACU	Sapling/Shrub – Woody plants, excluding vines, le	SS
7	·::			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All berbaceous (non-woody) plants, regardle	
9.				of size, and woody plants less than 3.28 ft tall.	000
10					- 2025
11	-20			Woody vine – All woody vines greater than 3.28 ft i height	In
12				noight.	
12	00		·		
500/ 5/ 1 49 5			10.8		
50% of total cover: 49.5	20% of	total cover	. 19.0		
Woody Vine Stratum (Plot size: 30 )					
1. <u>None</u>	· · · · · · · · · · · · · · · · · · ·				
2					
3					
4					
5.				Hydrophytic	
	10. <u></u> 0	= Total Cov	/er	Vegetation	
50% of total cover:		total cover		Present? Yes <u>No X</u>	
Benerical (If above and list mouth classical adaptations hal	20 /0 01	total cover	·		
Remarks: (If observed, list morphological adaptations bein	SW).				

## SOIL

## Sampling Point: 3

Profile Desc	ription: (Describe	to the dept	th needed to docum	nent the	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix		Redox	Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-10	10YR 4/3	95	7.5YR 4/6	5	<u> </u>	M	Silt Loam		
10-16	10YR 4/2	95	7.5YR 4/6	5	С	Μ	Silt Loam		121
	36	-120 <del>1 - 1</del> . 5		63 <del>.</del>	- ( <u>.</u>	2			
**************************************	ñ/	<u></u>			_ :	<u> </u>	<u></u>		
	÷						<del> </del>		
	14-	-123		93 <del>.</del>					
1		<u></u>				3 0	2		
'Type: C=Co	ncentration, D=Dep	bletion, RM=	Reduced Matrix, MS	=Maske	d Sand Gi	rains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Mati	IX.
Hyaric Soll I	ndicators: (Applic	able to all	LRRS, unless other	wise not	(ea.)		indicators for	Problematic Hydric	Solis :
	(A1) ia a dan (A2)		Polyvalue Bel	low Surfa	ace (S8) (I			k (A9) (LRR O)	
	npedon (A2)			nace (Se	) (LKK S,	, I, U) 2 O)		K (A10) (LRR S) Vertie (E19) (euteide	
	slic (AS) n Sulfide (A4)			/ Minerai d Motriv	(F1) <b>(LRI</b> (E2)	<b>K</b> U)		Eloodplain Soils (E19	VIDDDST
	Lavers (A5)			rix (F3)	(FZ)			is Bright Loamy Soils	(ERR F, S, T)
Organic	Bodies (A6) (LRR F	P. T. U)	Redox Dark S	Surface (	F6)		(MLRA	153B)	(1 20)
5 cm Mu	cky Mineral (A7) (L	, , , , RR P. T. U)	Depleted Dar	k Surface	e (F7)		Red Pare	nt Material (TF2)	
Muck Pr	esence (A8) (LRR L	J)	Redox Depre	ssions (F	8)		Uvery Shal	low Dark Surface (TF	12)
🔲 1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Ex	plain in Remarks)	
Depleted	Below Dark Surfac	e (A11)	Depleted Och	ric (F11)	(MLRA 1	51)			
Thick Da	rk Surface (A12)		Iron-Mangane	ese Mass	ses (F12)	(LRR O, P,	, T) <sup>3</sup> Indicato	ors of hydrophytic vege	etation and
Coast Pr	airie Redox (A16) <b>(</b> I	MLRA 150A	() Umbric Surfa	ce (F13)	(LRR P, 1	F, U)	wetlan	d hydrology must be p	present,
Sandy M	lucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(M</b>	LRA 151)		unless	disturbed or problem	atic.
	leyed Matrix (S4)			tic (F18)	(MLRA 1:	50A, 150B	)		
Sandy R	edox (S5)			odplain S	Solls (F19	) (IVILKA 14 (EDO) (MILE	49A) 28.4408.4520.44	(20)	
	Matrix (S6)	ст II)		right Loa	my Solis i	(F2U) (IVILF	KA 149A, 153C, 13	ט נים נים	
Restrictive I	aver (if observed)								
Type									
Depth (inc	hec).						Hydric Soil Pr	acant? Vac	No X
Bemerke:							Hydric Odi Ph		- NO
Remarks.									

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bratton Family Farms Property	City/County: Crov	vley/Acadia	_ Sampling Date: 11/28/17
Applicant/Owner: One Acadiana		<sub>State:</sub> LA	Sampling Point: 4
Investigator(s): C. Hoffpauir	Section, Township	. Range: 43, 9 South, 1 E	ast
Landform (hillslope terrace etc.). Flat to Gently Sloping (Pas	ture) Local relief (conca	ve convex none). None	Slope (%) <sup>,</sup> 0-1
Subregion (LRB or MLRA): LRR-T	3345517.76	Long: 560328.18	Detum: UTM NAD 83
Soil Map Linit Name: Crowley silt loam, 0-1% Slopes		Long	Datum
			Cation.
Are climatic / hydrologic conditions on the site typical for this tim	e oryear? res <u></u> r		(C X X N
Are vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sign:	icantly disturbed?	Are "Normal Circumstances"	present? Yes <u>~</u> No
Are Vegetation <u>140</u> , Soil <u>140</u> , or Hydrology <u>140</u> natur	ally problematic? (	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling poi	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No X			
Hydric Soil Present? Yes No X	Is the Sam	pled Area	X
Wetland Hydrology Present? Yes No ×		etiand? Yes	NO <u>//</u>
Remarks:			
Area is Flat to Gently Sloping toward Sout	ih.		
Anadanis par isma iso Azo ess. ♥ ess is tites .♥ ana isma iso ana isma san ana is			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soi	I Cracks (B6)
Surface Water (A1)	na (B13)		egetated Concave Surface (B8)
High Water Table (A2)	ts (B15) (LRR U)	Drainage Pi	atterns (B10)
Saturation (A3)	ulfide Odor (C1)		Lines (B16)
Sediment Denseite (P2)	Example is along Living R	coots (C3) Dry-Season	rous (C2)
Drift Deposits (B3)	Reduction in Tilled Soils (	C6) Crayisin Bu	(co)
Algal Mat or Crust (B4)	Surface (C7)		c Position (D2)
Iron Deposits (B5)	ain in Remarks)	Shallow Age	uitard (D3)
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutra	al Test (D5)
Water-Stained Leaves (B9)		🔲 Sphagnum	moss (D8) <b>(LRR T, U)</b>
Field Observations:		4545 2523 \$355	
Surface Water Present? Yes No X Depth (	inches):		
Water Table Present? Yes <u>No X</u> Depth (	inches):		
Saturation Present? Yes <u>No X</u> Depth (	inches):	Wetland Hydrology Prese	nt? Yes No_X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspec	tions), if available:	
	9999 1997 - The Standard Market Constant - Provincing Station Control Commence Constant Para Constant Provinci		
Remarks:			
Area Well Drained.			

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

12.000	<b></b>		
Sam	nlina	Doint:	
Jan	piiru	FUIII.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: 1 (A)
2		-		Total Number of Dominant
3		5 <del></del>		Species Across All Strata: 2 (B)
4	. <u> </u>		. <u> </u>	Demonst of Deminant Species
5	200	57		That Are OBL_EACW or EAC <sup>-50</sup> (A/B)
6.	500	2		
7.				Prevalence Index worksheet:
8		a.		Total % Cover of:Multiply by:
· ·	50 <del></del> 3	- Total Ca		OBL species x 1 =
E00( of total any any				FACW species x 2 =
	20% 0	total cover	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 00 )				FACU species x 4 =
		3	c	LIPI species x 5 =
2		2		
3		3	ni- <u></u> in	
4				Prevalence Index = B/A =
5			() <u> </u>	Hydrophytic Vegetation Indicators:
6			200 <u>-</u> 23	1 - Ranid Test for Hydronhytic Vegetation
7.			10	1 - Rapid Test for Hydrophytic Vegetation
8	· · · · · · · · · · · · · · · · · · ·	0	· <u> </u>	2 - Dominance Test Is >50%
<u> </u>	· · · · · · · · · · · · · · · · · · ·	– Total Ca		3 - Prevalence Index is ≤3.0°
500/ stately success			vei	Problematic Hydrophytic Vegetation' (Explain)
50% of total cover:	20% of	total cover	r:	
Herb Stratum (Plot size: <u>30</u> )	3270			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Axonopus fissitolius		Yes	FACW	be present, unless disturbed or problematic.
2. Sporobolus indicus	40	Yes	FACU	Definitions of Four Vegetation Strata:
3. Triadica sebifera	5	No	FAC	Tree Meedy plents evoluting vince 3 in (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5	30.	0		height.
	630 <del></del>	19- 		
7	•			than 3 in DBH and greater than 3 28 ft (1 m) tall
/	() <u> </u>	0		
8	·	-		Herb – All herbaceous (non-woody) plants, regardless
9		1		of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11		-	<u></u>	height.
12				
	95	= Total Co	ver	
50% of total cover: 47.5	20% of	total cove	r 19	
Moody Vine Stratum (Plot size: 30			· · · · · · · · ·	
A None				
	e ( )	3		
2	23/2 <u></u>	ă,		
3		-	. <u> </u>	
4		19		
5			. <u> </u>	Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	Г	Present? Yes No <u>^</u>
Remarks: (If observed, list morphological adaptations belo				

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s ,			
(inches)	Color (moist)		Color (moist)		<u>Type'</u>		Texture	Remarks
0-11	10YR 4/3	98	7.5YR 4/6		<u>C</u>	<u>M</u>	Silt Loam	s <u>s</u>
11-16	10YR 3/2	98	7.5YR 4/6	2	С	М	Silt Loam	
	*	-0.	.) <del>6</del>	- 0	-	d.	*	
	<del>x</del>		Se	- 0			<u></u>	°
	2 2							
	5			150				
	*						n	·
	<u>i</u>		×		1		4 <del>.</del>	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	oletion, RM	=Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicators	ofor Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) <b>(</b>	LRR S, T, I	U) 🛄 1 cm M	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		🔲 Thin Dark Su	urface (S9	) (LRR S	, T, U)	2 cm I	Muck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) <b>(LR</b>	R O)	Reduc	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedm	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)			L Anom	alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	-6)			RA 153B)
5 cm Mu	cky Mineral (A7) <b>(L</b>	RR P, T, U	Depleted Da	rk Surface	: (F7)			arent Material (TF2)
Muck Pro	esence (A8) <b>(LRR l</b>	(ר	Redox Depre	essions (F	8)			Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			U Other	(Explain in Remarks)
	Below Dark Surfac	e (A11)		hric (F11)	(MLRA 1	(51)		norski je na vranski je je konstru je sa transki na sveti na poslavana i na vranski na sveti na sveti na sveti
	irk Surface (A12)			ese Mass	es (F12)		, I) °india	cators of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (i			(E47) (01)	(LRR P,	I, U)	we	tiand hydrology must be present,
	lucky Mineral (S1) (	LKK U, S)		(F17) <b>(IVIL</b> etia (E19) /	.KA 101) ML DA 4.	50A 450D	uni v	ess disturbed or problematic.
	adox (S5)			nuc (Fio) ( podploin S	WILKA I	MIDA 4	/ 40 A \	
	Matrix (S6)			Pright Log			43A) 28 1/08 1530	153D)
	face (S7) <b>(I PP P</b>	e T IN		Shght Loai	Thy Oolis		(A 145A, 155C	, 1550)
Restrictive I	aver (if observed)	· · ·						
Time	ayer (il observed)							
Type								X
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:								

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Bratton Family Farms Property	City/County: Crov	vley/Acadia	Sampling Date: <u>11/28/17</u>
Applicant/Owner: One Acadiana		<sub>State:</sub> LA	Sampling Point: 5
Investigator(s); C. Hoffpauir	Section, Township	. Range: 43, 9 South, 1 I	East
Landform (hillslope, terrace, etc.); Slight Ridge	Local relief (conca	ve. convex. none); Conve	x Slope (%); 1-3
Subregion (I RR or MI RA): LRR-T	3345633.74	Long: 560337.74	Datum <sup>.</sup> UTM NAD 83
Soil Map Unit Name: Crowley silt loam, 0-1% Slopes		NWI class	fication.
Are climatic / hydrologic conditions on the site typical for this tim	ne of vear? Yes X	lo (lf no explain in	Remarks )
Are Vegetation No Soil No or Hydrology No signi	ficantly disturbed?	Are "Normal Circumstances	" present? Yes X No
Are Vegetation No Soil No or Hydrology No patu	rally problematic?	If needed, explain any ans	vers in Remarks )
SUMMARY OF FINDINGS – Attach site map she	owing sampling poi	nt locations, transec	ts, important features, etc.
	/		
Hydrophytic Vegetation Present? Yes No	Is the Sam	pled Area	
Wetland Hydrology Present? Yes No X	within a We	etland? Yes	No <u>X</u>
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:	90 - 19	Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	Surface Se	bil Cracks (B6)
Surface Water (A1)	na (B13)	Sparsely \	/egetated Concave Surface (B8)
High Water Table (A2) Gaturation (A2) Mari Deposi	ts (B15) <b>(LRR U)</b>		Patterns (B10)
Water Marks (B1)	umae Odor (C1) vizospheres along Living R		Lines (B16) m Water Table (C2)
Sediment Deposits (B2)	Reduced Iron (C4)		urrows (C8)
Drift Deposits (B3)	Reduction in Tilled Soils (	C6)	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Surface (C7)	Geomorph	ic Position (D2)
Iron Deposits (B5)	ain in Remarks)	Shallow A	quitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neut	ral Test (D5)
Water-Stained Leaves (B9)		🔟 Sphagnum	n moss (D8) <b>(LRR T, U)</b>
Field Observations:	<i>.</i>		
Surface Water Present? Yes No C Depth (	(inches):		
Vater Table Present? Yes No A Depth (	(inches):	Watland Hydrology Dree	anta Vac Na X
(includes capillary fringe)	(incries).	welland hydrology Pres	
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspect	tions), if available:	
Remarks:			
Area Well Drained			

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

		5
Sampling	Doint	- 0
Jamping	FOIL.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species
1. Pinus taeda		Yes		That Are OBL, FACW, or FAC: $2$ (A)
2. Juniperus virginiana	5	NO	FACU	Total Number of Dominant
3	5	No	FAC	Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <sup>33</sup> (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	50	= Total Cov	er	OBL species x 1 =
50% of total cover; <sup>25</sup>	20% of	total cover	10	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <sup>30</sup> )				FAC species x 3 =
1 Triadica sebifera	5	Yes	FAC	FACU species x 4 =
Juniperus virginiana	5	Yes	FACU	UPL species x 5 =
3	83			Column Totals: (A) (B)
3			· <u> </u>	A 44 23
4				Prevalence Index = B/A =
o			<u> </u>	Hydrophytic Vegetation Indicators:
<u>6.</u>	-		·	1 - Rapid Test for Hydrophytic Vegetation
7	•		<u> </u>	2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
_	10	= Total Cov	rer	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: <u>5</u>	20% of	total cover	2	
Herb Stratum(Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Sporobolus indicus	40	Yes	FACU	be present, unless disturbed or problematic.
2. Cynodon dactylon	40	Yes	FACU	Definitions of Four Vegetation Strata:
3. Croton monanthogynus	5	No	NI	Tree Moody plants, evoluting vines 3 in (7.6 cm) or
4. Rubus triviallis	5	No	FACU	more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sanling/Shrub - Woody plants, evoluting vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	- (c) <u></u> c	· · · · · · · · · · · · · · · · · · ·		
o	•			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
3	<u> </u>	·		or size, and woody plants less than 5.25 it tall.
18	-00			Woody vine – All woody vines greater than 3.28 ft in
11				neight.
12				
45	<u> </u>	= Total Cov	er 10	
50% of total cover: 45	20% of	total cover		
Woody Vine Stratum (Plot size: 30 )	-	74		
1. Hosa bracteata	5	Yes		
2				
3				
4		. <u> </u>		
5				Hydrophytic
12	5	= Total Cov	er 🛛	Vegetation
50% of total cover: 2.5	20% of	total cover	1	Present? Yes No <u>^</u>
Remarks: (If observed, list morphological adaptations belo	ow).		10 Se	
anna an an ann an an ann an ann an ann an a				

#### SOIL

SOIL								San	inpling Point	
Profile Desc	ription: (Describe	to the dept	th needed to docu	nent the i	ndicator	or confirm	n the absence	of indicators	s.)	
Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	-	Remarks	
0-16	10YR 4/3	98	7.5YR 4/6	2	С	M	Silt Loam			
				- —				-		
	-							-		
	2	-23			3 <u></u>	·	<del>1)</del>	5		
	-0 9			<u> </u>	-		÷	3		
	e.			-52	0			18		
		-53								
<sup>1</sup> Type: C=C(		letion RM=	Reduced Matrix M	 S=Masked	Sand G	ains	<sup>2</sup> Location	PI =Pore Lini	ing M=Matrix	<u>_</u>
Hydric Soil I	ndicators: (Applic	able to all	RRs unless othe	nviso note	d)	unis.	Indicators	for Problem	atic Hydric S	oile <sup>3</sup>
				I WISE HOLE	,					0113 .
Histosol	(A1)			elow Surfac	ce (S8) (I	LRR S, T, I		Muck (A9) (LR	(R O)	
Histic Ep	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S,	T, U)	2 cm l	Muck (A10) <b>(L</b>	RR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral (	(F1) <b>(LRI</b>	R O)	Reduc	ed Vertic (F18	B) (outside M	LRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedm	nont Floodplair	n Soils (F19) <b>(</b>	LRR P, S, T)
Stratified	I Layers (A5)		Depleted Ma	trix (F3)			📙 Anom	alous Bright L	oamy Soils (F	20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(ML	RA 153B)		
5 cm Mu	cky Mineral (A7) (L	RR P. T. U)	Depleted Da	rk Surface	(F7)		Red P	arent Material	l (TF2)	
Muck Pr	esence (A8) (I RR I	n	Redox Depre	essions (F	3)			Shallow Dark S	Surface (TE12	۱. ۱
		<i>.</i> ,	Marl (E10) (I	PP II)	- /			(Evolain in Re	marke)	/
	Rolow Dork Surfac	o (A11)		hric $(E11)$		54)			indik3)	
	u Below Dark Suriau urk Surfa sa (A4O)	e (ATT)					<b></b> 31	antaun of hundre		tion on d
	irk Surface (A12)			ese masse	5 (F12)	(LKK U, F,	i) inun		opriylic vegela	.uon anu
Coast Pr	airie Redox (A16) (I			ace (F13) (	LRR P,	i, U)	we	tiand hydrolog	ly must be pre	sent,
Sandy M	lucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(₩L</b>	RA 151)	9641230 TOOPTOOD	uni	less disturbed	or problemation	с.
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) <b>(</b>	MLRA 1	50A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	oodplain S	oils (F19	) (MLRA 14	19A)			
Stripped	Matrix (S6)		Anomalous E	Bright Loar	ny Soils i	(F20) <b>(MLF</b>	RA 149A, 153C	c, 153D)		
🔲 Dark Sui	face (S7) (LRR P, S	S, T, U)								
Restrictive L	.ayer (if observed)									
Type:										
Denth (inc	thes):						Hydric Soil	Present?	Yes	No X
Boptin (inte							ing and con			
Remarks.										

## ATTACHMENT D

Site Photographs



Photograph 1 Sample Plot 1



Photograph 2 General View of Plot 1



Photograph 3 Sample Plot 2



Photograph 4 General View of Plot 2



Photograph 5 Sample Plot 3



Photograph 6 General View of Plot 3



Photograph 7 Sample Plot 4



Photograph 8 General View of Plot 4



Photograph 9 Sample Plot 5



Photograph 10 General View of Plot 5



Photograph 11 View of Drain along Eastern Property Line Facing North



Photograph 12 View of Drain along Eastern Property Line Facing South