



Exhibit FF. Spanish Trail Industrial Park **Wetlands Delineation Report**











SENT VIA EMAIL

August 30, 2019

Spanish Trail Industrial Park Wetlands Delineation Report

Mr. Zach Hager
One Acadiana
804 East St. Mary Boulevard
Lafayette, Louisiana 70503

RE: Wetland Delineation Report

Spanish Trail Industrial Park St. Martin Parish, Louisiana

Dear Mr. Hager:

Southland Environmental, LLC is pleased to provide this electronic copy of the Wetland Delineation Report for the referenced property. A copy of this Delineation report can be 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.

Managing Owner

Attachment



WETLAND DELINEATION SPANISH TRAIL INDUSTRIAL PARK ST. MARTIN PARISH, LOUISIANA

Prepared for: One Acadiana 804 East St. Mary Boulevard Lafayette, Louisiana 70503

August 30, 2019

C. Blaine Johnson, P.E.

Managing Owner

Cleveland R. Hoffpauir **Environmental Scientist**

Prepared by:

Southland Environmental, LLC

510 Clarence Street Lake Charles, Louisiana 70601 (337) 436-3248

TABLE OF CONTENTS

SUM	MARY	1
1.0	INTRODUCTION	1
2.0	METHODOLOGY	2
3.0	SITE DESCRIPTION	3
4.0	FINDINGS	3
	4.1 Vegetation	3
	4.2 Soils	
	4.3 Hydrology	
5.0	CONCLUSIONS	4
	FIGURES	
Site l	Location Map	1
Site 1	Diagram	2
	AR İmagery	
	ATTACHMENTS	
Certi	ficates of Training	A
	red Aerial Photograph and Soils Maps	
	and Data Forms	
	Photographs	

SUMMARY

An approximate 50-acre tract identified as the Spanish Trail Industrial Park, located between Highway 90 and Highway 182 in St. Martin Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The property is undeveloped and is located in an area of residential and commercial development. The property is herbaceous, void of any trees or shrubs and is frequently mowed. The dominant vegetation present on the property consists of Broomsedge, Dogfennel, Vasey's grass, Virginia Buttonweed, and Japanese clover. Soils present on the property, as mapped by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) include Memphis-Frost complex and Memphis silt loam. The center of property is relatively high in elevation and gently slopes toward the north and west. The property is well drained and did not exhibit characteristics typical of a wetland.

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

Based on the results of this delineation, no wetlands were identified within the property boundary. Drainage ditches are located on the investigated property. These drains comprise approximately 3,440 linear feet and will likely be considered non-wetland waters by the COE.

1.0 INTRODUCTION

Southland Environmental, LLC (Southland Environmental) was retained to conduct a wetland delineation of property located east of Highway 90 in St. Martin Parish. The property is located in Sections 11, Township 11 South, Range 5 East. The center of the property is located at Latitude 30.103823, Longitude -91.932146. 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**. LIDAR is a remote sensing method that uses a near-infrared laser to map changes in elevation of the surface of the Earth.

Cleve Hoffpauir of Southland Environmental performed the field evaluation on August 28, 2019. Mr. Hoffpauir has a Bachelors of Science Degree in Environmental Science and has experience in wetland ecosystem evaluation and wetland vegetation identification, in addition to specialized training in performing wetland delineations. Mr Hoffpauir has been performing wetland delineations for approximately ten years. Blaine Johnson managed the project. Mr. Johnson has over thirty years experience in environmental investigation and permitting, with over twenty years experience in wetland permitting. Copies of the applicable Certificates of Training are included as **Attachment A**.

2.0 METHODOLOGY

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

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

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

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

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

Prior to the site visit, the St. Martin Parish Soil Survey prepared by the USDA-NRCS was reviewed. The purpose of that review was to determine the soil types as mapped by USDA. As indicated by the Soil Survey, the delineated site includes two soil types: Memphis-Frost complex, gently undulating (Mp) and Memphis silt loam, 5 to 8 percent slopes (Mh). Mh soil is listed as hydric in St. Martin Parish. In addition to the soils map, infrared aerial photographs from 2004 and 2008 were reviewed. The soil maps and infrared photographs are 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 on the investigated property. Eight representative sample points were selected and detailed evaluations were conducted at these locations. The data collected at these sample points was recorded on Wetland Data Forms and the location of each sample plot was marked with a Trimble Global Positioning Unit (GPS). The Wetland Data Forms are included as **Attachment C**.

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

3.0 SITE DESCRIPTION

The delineated property is located east of Highway 90 and west of Highway 182 in St. Martin Parish. The tract is irregular in shape and encompasses approximately 50 acres. Based on aerial photography review and the site investigation, the property is undeveloped and herbaceous. The dominant vegetation on the property consisted of Broomsedge (Andropogon virginicus), Dogfennel (Eupatorium capillifolium), Virginia Buttonweed (Diodia virginiana), Vasey's grass (Paspalum urvellei), Bermuda grass (Cynodon dactylon), and Japanese clover (Kummerowia striata). As noted earlier in this report, the USDA-NRCS soil maps indicate that soils on the property consist of two soil types: Memphis-Frost complex, gently undulating (Mp) and Memphis silt loam, 5 to 8 percent slopes (Mh). Mp soils are listed as hydric soil in St. Martin Parish. Drainage ditches are located within the property boundary and will likely be considered Section 404 non-wetland waters by the COE. No wetlands were identified on the tract.

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. Eight sample points were selected to characterize the site. At these sample points, the soils, hydrology, and vegetation were characterized and the information was recorded on Wetland Data Forms. The findings of the delineation are described in the following sections.

4.1 **VEGETATION**

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

FACULTATIVE UPLAND

Cynodon dactylon (Bermuda grass)
Eupatorium capillifolium (Dogfennel)
Kummerowia striata (Japanese clover)

FACULTATIVE

Andropogon virginicus (Broomsedge) Paspalum urvellei (Vasey's grass)

FACULTATIVE WETLAND

Diodia virginiana (Virginia Buttonweed)

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

4.2 SOILS

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

- Mp soils are on parallel ridges and in swales in crescent pattern on the terrace uplands I the southwestern part of the parish. They formed in loamy loess deposits. The Memphis soils make up about 60 percent of the acreage. They occur on ridges about 800 feet wide and are up to 3 feet higher than the swales. The Frost soils make up about 40 percent of the acreage. They occur in the swales which are about 500 feet wide. Slopes is 0 to 3 percent. Mp soils are listed as hydric in St. Martin Parish.
- Mh soil is a moderately sloping soil on the escarpment between the terrace uplands and the alluvial plains and along major trenched drainageways on the terrace uplands in the southwestern part of the parish. This soil formed in loamy loess deposits. Mh soil is not listed as hydric in St. Martin 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. None of the data plots exhibited wetland hydrology indicators.

5.0 CONCLUSIONS

An approximate 50-acre tract located east of Highway 90 in St. Martin 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

The investigated property consists of undeveloped pasture that is frequently mowed. The property is relatively high in elevation and gently slopes towards the north and west. The property is well drained and did not demonstrate characteristics typical of wetlands.

Based on the results of this delineation approximately, 50 acres of non-wetlands and 3,440 linear feet of non-wetland waters (drainage ditches) are present on the investigated property.

FIGURE 1

Site Location Map

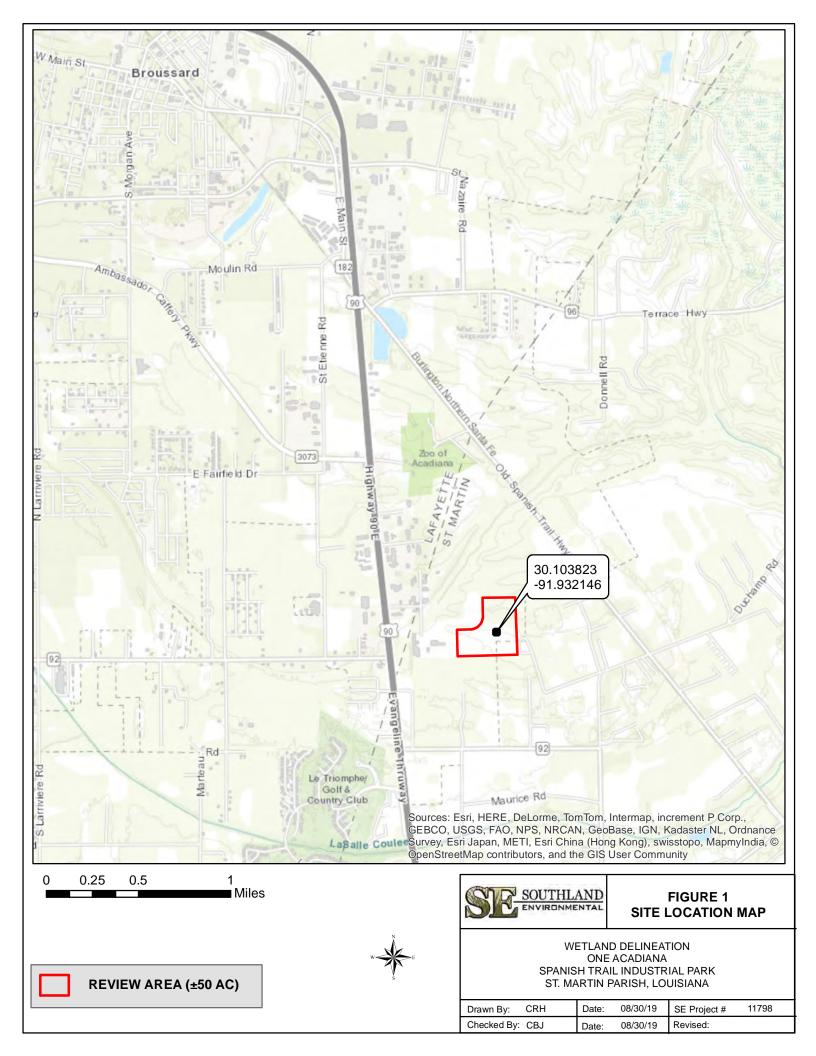
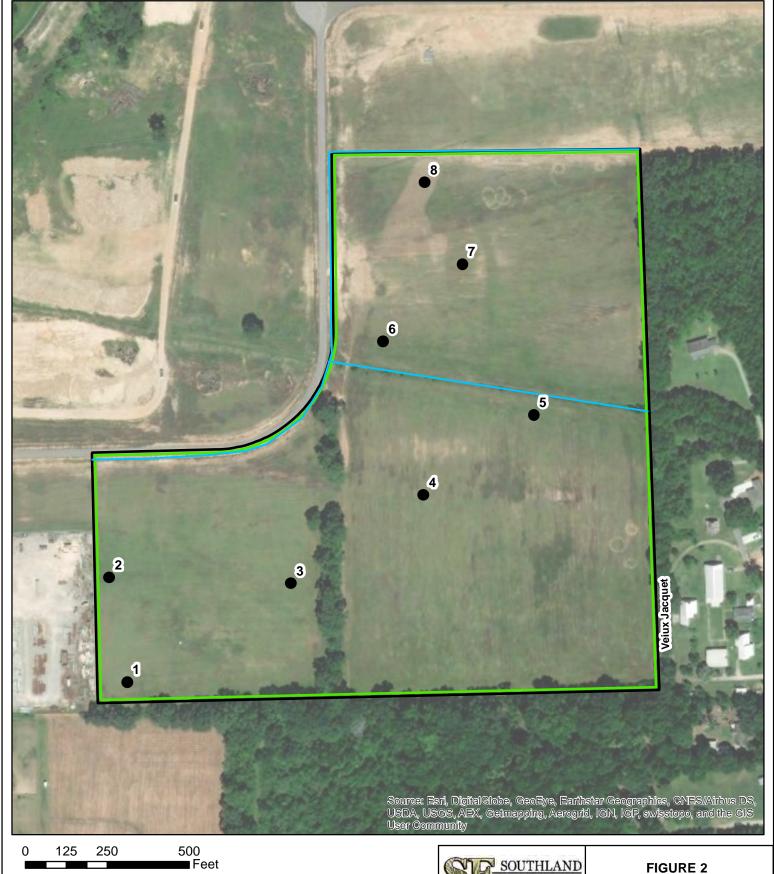


FIGURE 2

Site Diagram







NON-WETLAND (±50 AC)

NON-WETLAND WATERS (±3,440 LF)





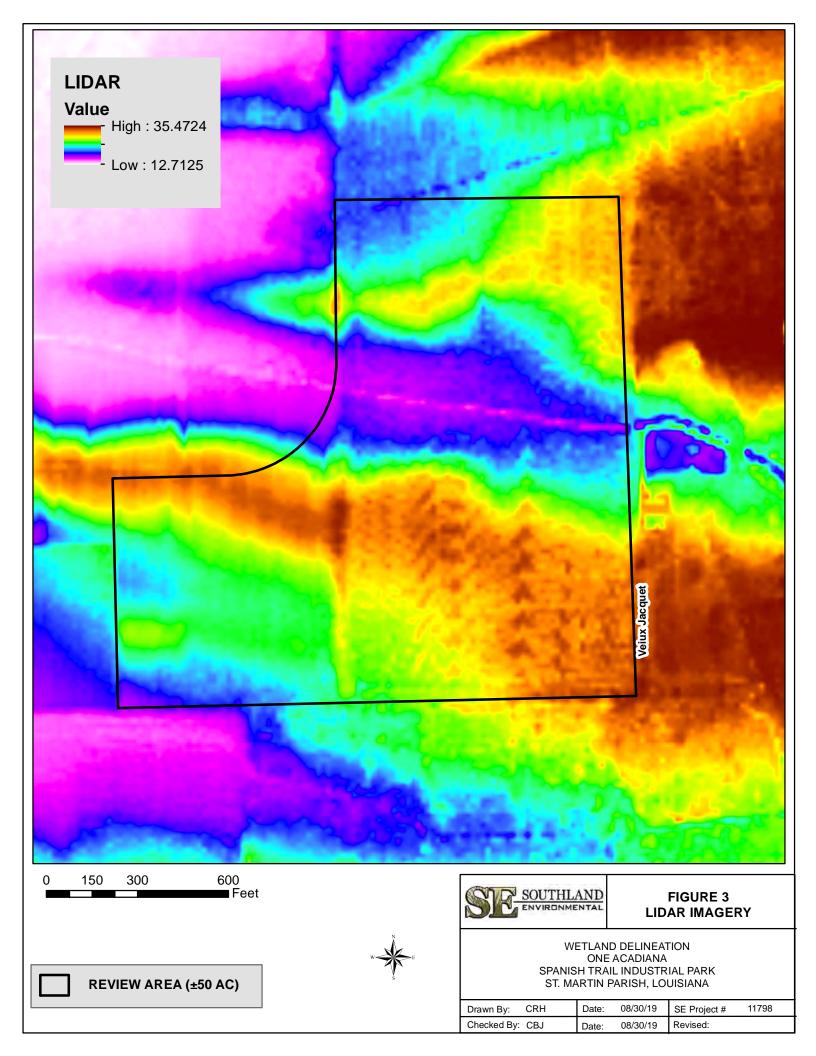
SITE DIAGRAM

WETLAND DELINEATION ONE ACADIANA SPANISH TRAIL INDUSTRIAL PARK ST. MARTIN PARISH, LOUISIANA

Drawn By: CRH	Date:	08/30/19	SE Project #	11798
Checked By: CBJ	Date:	08/30/19	Revised:	

FIGURE 3

Lidar Imagery



ATTACHMENT A

Certificates of Training

Richard Chinn Environmental Training, Inc.

certifies that

Cleve Hoffpauir

has successfully completed a

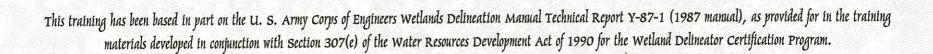
4 day 38 hour Army Corps of Engineers Wetland Delineation Training Program

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





Certificate of Training Hydric Soil Updates

This certifies that

Cleveland Hoffpauir

has participated in 2 hours of instruction.

Date: March 22, 2018



RALEIGH, NC 27603 1-877-479-2673

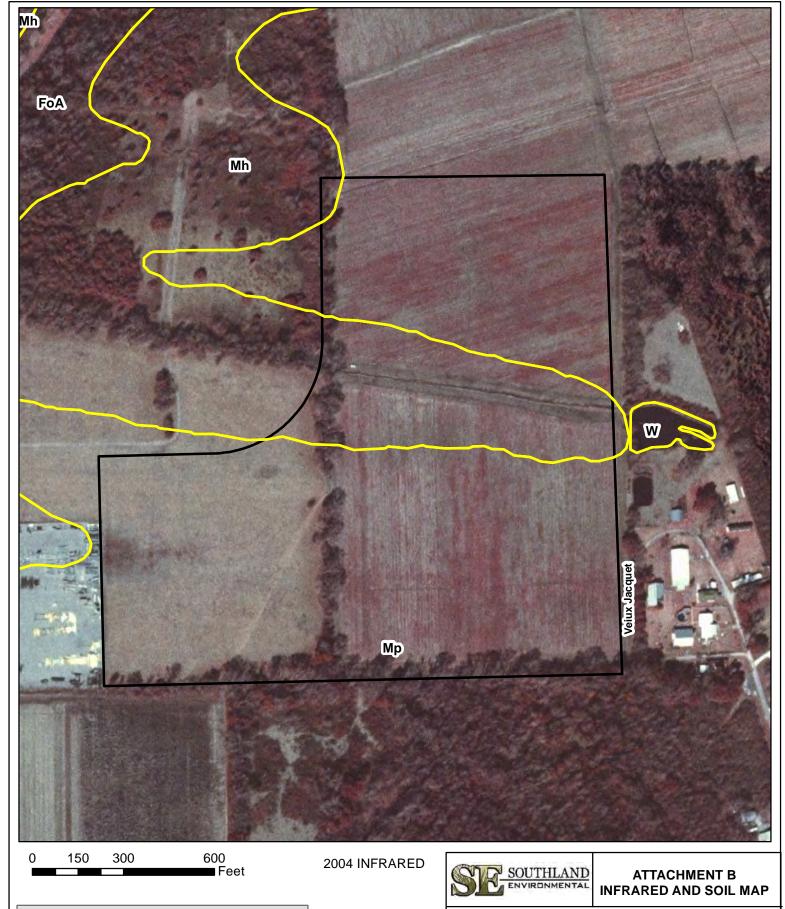


Marc Delinger

SIGNATURE OF AUTHORIZATION

ATTACHMENT B

Infrared and Soil Map



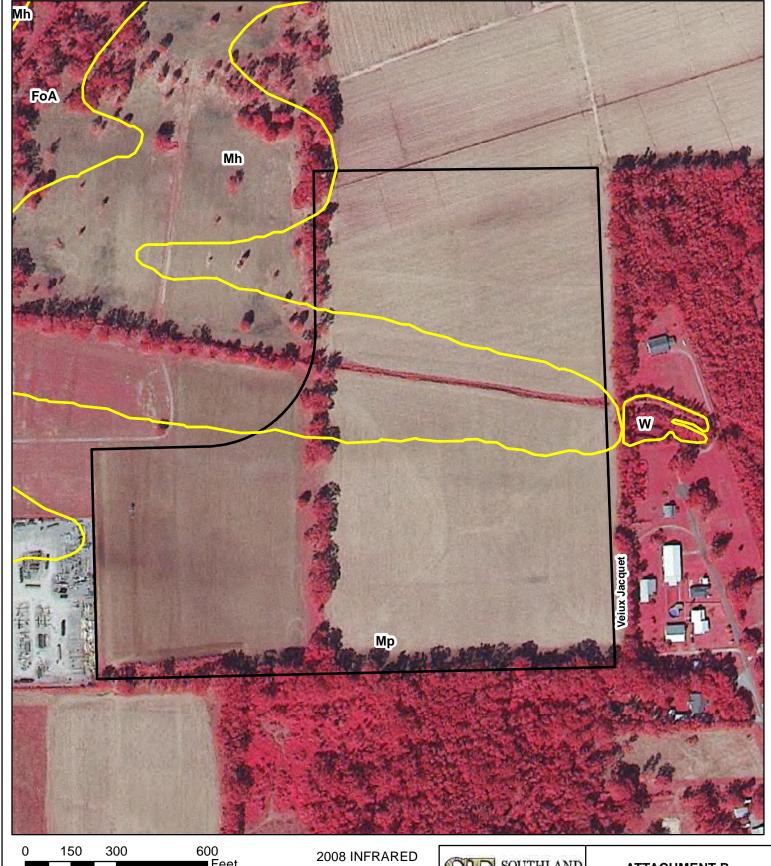
REVIEW AREA (±50 AC)

SOIL CLASSIFICATION BOUNDARY



WETLAND DELINEATION ONE ACADIANA SPANISH TRAIL INDUSTRIAL PARK ST. MARTIN PARISH, LOUISIANA

Drawn By: CRH	Date:	08/30/19	SE Project #	11798
Checked By: CBJ	Date:	08/30/19	Revised:	



600 Feet

REVIEW AREA (±50 AC) SOIL CLASSIFICATION BOUNDARY





ATTACHMENT B **INFRARED AND SOIL MAP**

WETLAND DELINEATION ONE ACADIANA SPANISH TRAIL INDUSTRIAL PARK ST. MARTIN PARISH, LOUISIANA

Drawn By:	CRH	Date:	08/30/19	SE Project #	11798
Checked By:	CBJ	Date:	08/30/19	Revised:	

ATTACHMENT C

Wetland Data Forms

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	dustrial Park	City/C	county: St. Martin Pa	arish	_ Sampling Da	_{ite:} 8/28/19
Applicant/Owner: One Acadiana State: LA						
Investigator(s): C. Hoffpauir		Section			_ , ,	
Landform (hillslope, terrace, etc			relief (concave, conve			Slope (%): 1-3
Subregion (LRR or MLRA): LR	,,,. }R-T	Lat. 602574.29	Long	. 3330580.42	`	Datum: UTM NAD 83
Soil Map Unit Name: Memphi	s-Frost complex, gent	_ Lat ly undulating	Long	NWI classifi		
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es X No	_ (If no, explain in F	Remarks.)	
Are Vegetation No , Soil No	o, or Hydrology No	significantly distur	bed? Are "Norr	mal Circumstances"	present? Yes	X No
Are Vegetation No , Soil No	o , or Hydrology No	naturally problema	atic? (If needed	d, explain any answe	ers in Remarks	i.)
SUMMARY OF FINDING						
Hydrophytic Vegetation Prese	ent? Yes	No X				
Hydric Soil Present?	Yes	No X No X	Is the Sampled Are within a Wetland?		No X	
Wetland Hydrology Present?		No X	within a wetiand?	res	NO	
Remarks:						
Recent Rainfall in Ar	rea					
Site is Herbaceous,	Void of Trees an	d Shrubs.				
,						
HYDROLOGY						
Wetland Hydrology Indicato				_	-	n of two required)
Primary Indicators (minimum o					l Cracks (B6)	
Surface Water (A1)		atic Fauna (B13)			_	ave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF			atterns (B10)	
Saturation (A3)		ogen Sulfide Odor ((Moss Trim L		C0)
Water Marks (B1)		ized Knizospheres a ence of Reduced Iro	long Living Roots (C3	Crayfish Bu	Water Table (J2)
Sediment Deposits (B2) Drift Deposits (B3)		ence of Reduced IIO ent Iron Reduction in	, ,	= '	/isible on Aeria	Il Imageny (CQ)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Colls (CO)		Position (D2)	Tillagery (03)
Iron Deposits (B5)	$\overline{}$	r (Explain in Remark	(s)	Shallow Aqu		
Inundation Visible on Aeri		()	-,	FAC-Neutra		
Water-Stained Leaves (B	• • • •			=	moss (D8) (LR	R T, U)
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):				
Saturation Present?	Yes No X	Depth (inches):	Wetlan	d Hydrology Prese	nt? Yes	No X
(includes capillary fringe) Describe Recorded Data (stre	eam gauge monitoring we	ell aerial nhotos, nre	vious inspections) if a	available.		
Describe Resorted Data (one	an gaage, montoning we	on, dendi priotos, pre	vious irispositorio), ir c	availabio.		
Remarks:						
None observed, area	a wall drainad					
inone observed, area	a well dialiled.					

	A1	D	119 :	Bandana		
ree Stratum (Plot size: ±30)		Dominant Species?		Dominance Test worksheet:		
None				Number of Dominant Species	1	(4)
				That Are OBL, FACW, or FAC:	·	_ (A)
				Total Number of Dominant	0	
				Species Across All Strata:	3	_ (B)
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC:	33	_ (A/
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
				OBL species x		
		= Total Cov	er			
50% of total cover:	20% of	total cover	·	FACW species x		
apling/Shrub Stratum (Plot size: ±30)				FAC species x	·	
None				FACU species x		
				UPL species x		
				Column Totals: (A	A)	(E
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indica		
				1 - Rapid Test for Hydrophy	_	
				2 - Dominance Test is >50%		
				3 - Prevalence Index is ≤3.0		
		= Total Cov		Problematic Hydrophytic Ve	egetation ¹ (Expl	ain)
50% of total cover:	20% of	total cover	·			
erb Stratum (Plot size: ±30)	40	V	E40	¹ Indicators of hydric soil and we		must
Andropogon virginicus		Yes	FAC	be present, unless disturbed or		
Eupatorium capillifolium	20	Yes	FACU	Definitions of Four Vegetation	Strata:	
Solidago altissima	20	Yes	FACU	Tree – Woody plants, excluding	vines, 3 in, (7.6	3 cm)
Paspalum urvellei	5	No	FAC	more in diameter at breast heigh		
Ambrosia artemisiifolia	5	No	FACU	height.		
Verbena brasiliensis	2	No	UPL	Sapling/Shrub – Woody plants	. excludina vine	s. les
Phyllanthus urinaria	2	No	FAC	than 3 in. DBH and greater than		
Diodia virginiana	2	No	FACW	Herb – All herbaceous (non-woo	ady) plants roa	ardlad
Rottboellia cochinchinensis	2	No	FACU	of size, and woody plants less the		aruies
D						
1				Woody vine – All woody vines wheight.	greater than 3.2	.8 ft in
2.				noight.		
2		= Total Cov	or			
50% of total cover: 49						
·	20% 01	total cover	10.0			
Yoody Vine Stratum (Plot size:)						
				Hydrophytic		
		= Total Cov	er	Vegetation	٧	
50% of total cover:	20% of	total cover	·	Present? Yes	No <u>^</u>	
30 % of total cover.				i .		

SOIL Sampling Point: 1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Texture (inches) 100 0-12 10YR 4/3 Silt Loam 12-21 10YR 4/4 100 Silty Clay ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Polyvalue Below Surface (S8) (LRR S, T, U) Histosol (A1) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) 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) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) 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, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: _ No X **Hydric Soil Present?** Depth (inches): Yes Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	idustrial Park	City/C	ounty: St. Martin F	Parish	_ Sampling Da	ate: 8/28/19
Applicant/Owner: One Acadia		State: LA	Sampling Po	oint: 2		
Investigator(s): C. Hoffpauir	on, Township, Range		_ , ,			
Landform (hillslope, terrace, etc.	Relatively Flat			vex, none): None		Slope (%): 0-1
Subregion (LRR or MLRA): LR	RR-T	Lat. 602557.52	Lon	.g. 3330678.25		Datum: UTM NAD 83
Soil Map Unit Name: Memphi	s-Frost complex, gent	_ Lat ly undulating	LOI		ication: None	Datum.
Are climatic / hydrologic condition						
Are Vegetation No , Soil No	O, or Hydrology No	significantly distur	bed? Are "No	rmal Circumstances"	present? Yes	x No
Are Vegetation No , Soil No	O, or Hydrology No	naturally problema	atic? (If need	ed, explain any answ	ers in Remarks	s.)
SUMMARY OF FINDING	SS – Attach site ma	ap showing sam	npling point loc	ations, transect	s, importan	t features, etc.
Hydrophytic Vegetation Prese	ent? Yes X	No				
Hydric Soil Present?	Yes	No X No X	Is the Sampled Ar		No X	
Wetland Hydrology Present?	Yes	No X	within a Wetland?	Yes	No <u>^</u>	
Remarks:						
Recent Rainfall in A	rea					
Site is Herbaceous,	Void of Trees an	d Shrubs.				
,						
HYDROLOGY						
Wetland Hydrology Indicato						n of two required)
Primary Indicators (minimum o					il Cracks (B6)	
Surface Water (A1)		atic Fauna (B13)	5.10		-	ave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRI			atterns (B10)	
Saturation (A3)		ogen Sulfide Odor ((Moss Trim		C0)
Water Marks (B1)		ized Rhizospheres a			n Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		ence of Reduced Iro ent Iron Reduction in	` '	Crayfish Bu	Visible on Aeria	ol Imagany (CO)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Solls (Co)		c Position (D2)	
Iron Deposits (B5)		r (Explain in Remark	re)	Shallow Aq		
Inundation Visible on Aeri		. (Explain in Noman	(0)	FAC-Neutra		
☐ Water-Stained Leaves (B	• • • •			=	moss (D8) (LR	R T, U)
Field Observations:	,					. ,
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):				
Saturation Present?	Yes No X			nd Hydrology Prese	ent? Yes	No X
(includes capillary fringe) Describe Recorded Data (stre	am gauge monitoring we	all aerial photos pre	vious inspections) it	f available:		
Describe Necolded Data (Sile	am gauge, monitoring we	en, aenai priotos, pre	vious irispections), ii	avallable.		
Remarks:						
None observed, area	a wall drained					
inone observed, area	a well dialiled.					

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

regeration (Four Strata) – Ose scientific ha				Sampling Point: 2
<u>Tree Stratum</u> (Plot size: ±30)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. None		-		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Descriptor
3.				Total Number of Dominant Species Across All Strata: 2 (B)
4.				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				That Ale Obl., FACW, OF FAC. (A/B)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
o		= Total Cov	/er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: ±30)	20 /0 01	total cover		FAC species x 3 =
, None				FACU species x 4 =
			-	UPL species x 5 =
2				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	:	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: ±30)				¹ Indicators of hydric soil and wetland hydrology must
1. Diodia virginiana	30	Yes	FACW	be present, unless disturbed or problematic.
2. Paspalum urvellei	30	Yes	FAC	Definitions of Four Vegetation Strata:
3. Solidago altissima	10	No	FACU	
4. Verbena brasiliensis	10	No	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Andropogon virginicus	5	No	FAC	height.
6. Ambrosia artemisiifolia	2	No	FACU	One Provide the Wand and a second of a second of
7. Cyperus echinatus	2	No	FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Chamaecrista fasciculata	2	No	FACU	· · ·
g. Rubus triviallis	2	No	FACU	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
				Woody vine – All woody vines greater than 3.28 ft in
11			-	height.
12	93	= Total Cov		
50% of total cover: 46.5				
	20% 01	total cover		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes X No
50% of total cover:		total cover	:	· · · · · · · · · · · · · · · · · · ·
Remarks: (If observed, list morphological adaptations belo			·	<u>I</u>

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	, to the dept	h needed to docur: Redo	x Features		ir the absence of	maioator 5.)	
(inches)	Color (moist)	%	Color (moist)		pe ¹ Loc ²	Texture	Remarl	ks
0-13	10YR 4/3	100				Silt Loam		
13-21	10YR 4/4	100				Silty Clay		
				<u></u>				
-								
								
						2		
			Reduced Matrix, MS LRRs, unless other		d Grains.		=Pore Lining, M=M r Problematic Hyd	
Histosol		cable to all i	_	elow Surface (S	8) /I DD S T I		k (A9) (LRR O)	ric Jons .
	ipedon (A2)			urface (S9) (LRF			k (A10) (LRR S)	
Black His				y Mineral (F1) (Vertic (F18) (outside	de MLRA 150A,B
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Floodplain Soils (F	
=	Layers (A5)		Depleted Ma	` '			ıs Bright Loamy So	ils (F20)
_	Bodies (A6) (LRR I		Redox Dark	` ,		(MLRA		
_	cky Mineral (A7) (L esence (A8) (LRR (Redox Depre	rk Surface (F7)			nt Material (TF2) low Dark Surface (*	TF12)
_	ck (A9) (LRR P, T)		Marl (F10) (L	` '			plain in Remarks)	11 12)
	Below Dark Surfa			hric (F11) (MLR	A 151)	(,	
Thick Da	rk Surface (A12)			ese Masses (F	, .	T) ³ Indicato	ors of hydrophytic ve	egetation and
=	airie Redox (A16) (•		ace (F13) (LRR			d hydrology must b	
	ucky Mineral (S1) (leyed Matrix (S4)	(LRR O, S)		(F17) (MLRA 1			disturbed or proble	ematic.
_	edox (S5)			rtic (F18) (MLR oodplain Soils (F				
_	Matrix (S6)					RA 149A, 153C, 15	53D)	
= ::	face (S7) (LRR P,	S, T, U)		3 ,	-/(,,	,	
estrictive L	ayer (if observed)):						
Туре:								
Depth (inc	ches):					Hydric Soil Pro	esent? Yes	No X
Remarks:								

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail Inc	dustrial Park	City/C	ounty: St. Martin Pa	ırish	Sampling Date: 8/28/19
Project/Site: Spanish Trail Industrial Park City/County: St. Applicant/Owner: One Acadiana				State: LA	Sampling Point: 3
Investigator(s): C. Hoffpauir			on, Township, Range:		
Landform (hillslope, terrace, etc.)					Slope (%): 1-3
Subregion (LRR or MLRA): LRF	, R-Т	Lat: 602726.84	Long	3330672.59	Datum: UTM NAD 83
Soil Map Unit Name: Memphis		ly undulating		NWI classific	Datum: UTM NAD 83
Are climatic / hydrologic condition					
Are Vegetation No , Soil No					
Are Vegetation No , Soil No	or Hydrology No	naturally problems	atic? (If needed	d evolain any answe	ers in Remarks)
_					s, important features, etc.
Lludranhutia Vagatatian Dragon		No X			
Hydrophytic Vegetation Present Hydric Soil Present?		No X	Is the Sampled Are		V
Wetland Hydrology Present?	Yes	No X	within a Wetland?	Yes	No X
Remarks:					
Recent Rainfall in Are	ea				
Site is Herbaceous, \	√oid of Trees and	d Shrubs.			
,					
LIVEROLOGY					
HYDROLOGY				Cocondon India	atora (minimum of two required)
Wetland Hydrology Indicator: Primary Indicators (minimum of		all that apply)		_	ators (minimum of two required) I Cracks (B6)
Surface Water (A1)		atic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	s (I)		atterns (B10)
Saturation (A3)		ogen Sulfide Odor (0		Moss Trim L	
Water Marks (B1)		•	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bur	
Drift Deposits (B3)	Rece	ent Iron Reduction in	Tilled Soils (C6)	☐ Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	U Othe	r (Explain in Remark	as)	Shallow Aqu	uitard (D3)
Inundation Visible on Aeria	• • • •			FAC-Neutra	` ,
Water-Stained Leaves (B9	')				moss (D8) (LRR T, U)
Field Observations:	X	5 (1			
Surface Water Present?	Yes No X				
Water Table Present?	Yes No X				nt? Yes No_X
Saturation Present? (includes capillary fringe)	Yes No X	Depth (inches):	Wetland	d Hydrology Prese	nt? Yes No _^_
Describe Recorded Data (strea	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), if a	vailable:	
Remarks:					
None observed, area	wall drained				
inone observed, area	well drained.				
					· ·

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

/EGETATION (Four Strata) – Use scientific na	Sampling Point: 3						
	Absolute	Dominant	Indicator	Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: ±30) 1. None		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)			
2.				Total Number of Dominant			
3				Species Across All Strata: 2 (B)			
4				Develope of Deminent Charles			
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)			
6							
7				Prevalence Index worksheet:			
8				Total % Cover of: Multiply by:			
		= Total Cov	er	OBL species x 1 =			
50% of total cover:	20% of	total cover	·	FAC species x 2 =			
Sapling/Shrub Stratum (Plot size: ±30)				FACIl appaies x 3 =			
1. None				FACU species x 4 =			
2				UPL species x 5 =(A)			
3				Column Totals: (A) (B)			
4				Prevalence Index = B/A =			
5				Hydrophytic Vegetation Indicators:			
6				1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8				3 - Prevalence Index is ≤3.0 ¹			
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover:	20% of	total cover	·				
Herb Stratum (Plot size: ±30)				¹ Indicators of hydric soil and wetland hydrology must			
1. Eupatorium capillifolium	40	Yes	FACU	be present, unless disturbed or problematic.			
2. Andropogon virginicus	30	Yes	FAC	Definitions of Four Vegetation Strata:			
3. Verbena brasiliensis	10	No	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4. Lespedeza cuneata	5	No	FACU	more in diameter at breast height (DBH), regardless of			
5. Kummerowia striata	5	No	FACU	height.			
6. Phyllanthus urinaria	2	No	FAC	Sapling/Shrub – Woody plants, excluding vines, less			
7. Ipomoea cordatotriloba	2	No	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8. Chamaecrista fasciculata	2	No	FACU	Herb – All herbaceous (non-woody) plants, regardless			
9. Paspalum urvellei	2	No	FAC	of size, and woody plants less than 3.28 ft tall.			
10. Setaria pumila	2	No	FAC	- Woody vine - All woody vines greater than 3.28 ft in			
11				height.			
12							
		= Total Cov					
50% of total cover: 46.5	20% of	total cover	18.6				
Woody Vine Stratum (Plot size: ±30)							
1. None							
2							
3							
4							
5				Hydrophytic			
		= Total Cov		Vegetation Present? Yes No X			
50% of total cover:	20% of	total cover		resent: resNo			
Remarks: (If observed, list morphological adaptations below	ow).						

SOIL Sampling Point: 3

	cription: (Describe	to the depth				or confirm	n the absence o	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remark	(e
0-12	10YR 4/3	100	Color (moist)	70	туре		Silt Loam	Remain	13
12-21	10YR 4/4	100		- ——			Silty Clay		
12-21	10114/4	_ 100 _					Silly Clay		
				- 					
									_
	oncentration, D=Dep					ains.		PL=Pore Lining, M=M	
Hydric Soil	Indicators: (Applie	cable to all L						or Problematic Hydi	ric Soils³:
Histosol			Polyvalue Be					uck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
=	stic (A3)		Loamy Muck			(0)		d Vertic (F18) (outsic	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		F2)			nt Floodplain Soils (F ous Bright Loamy Soi	
_	Bodies (A6) (LRR F	P. T. U)	Redox Dark	, ,	6)			A 153B)	115 (1-20)
	ucky Mineral (A7) (L		Depleted Da	•	,		_ ,	ent Material (TF2)	
	esence (A8) (LRR I		Redox Depre		, ,			allow Dark Surface (ΓF12)
	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (E	Explain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc	. ,	•	•			
=	ark Surface (A12)		Iron-Mangan					tors of hydrophytic ve	-
	rairie Redox (A16) (=			, U)		and hydrology must be	•
=	Mucky Mineral (S1) (Gleyed Matrix (S4)	LKK (), (S)	Delta Ochric Reduced Ve			0A 150B)		ss disturbed or proble	ematic.
_	Redox (S5)		Piedmont Flo	, , ,		. ,			
	Matrix (S6)			•	, ,	•	A 149A, 153C,	153D)	
	rface (S7) (LRR P,	S, T, U)			, (, (,	,	
Restrictive	Layer (if observed)):							
Type:									
Depth (in	ches):						Hydric Soil P	resent? Yes	No X
Remarks:									

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	dustrial Park	City/C	county: St. Martin P	arish	_ Sampling Da	ate: 8/28/19			
Applicant/Owner: One Acadiana				_ State: LA	Sampling Pc	oint: 4			
	vestigator(s): C. Hoffpauir Section, Townshi								
Landform (hillslope, terrace, etc			relief (concave, conv			Slope (%): 1-3			
Subregion (LRR or MLRA): LR	R-T	Lat. 602849.70	Long	. 3330754.98		Datum: UTM NAD 83			
Soil Map Unit Name: Memphis	s-Frost complex, gent	ly undulating	Long	NWI classifi	cation: None	Datum.			
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es X No	(If no, explain in F	Remarks.)				
Are Vegetation No , Soil No	O, or Hydrology No	_ significantly distur	bed? Are "Nor	mal Circumstances"	present? Yes	x No			
Are Vegetation No , Soil No	o, or Hydrology No	naturally problema	atic? (If neede	d, explain any answe	ers in Remarks	s.)			
SUMMARY OF FINDING	S - Attach site ma	ap showing sam	npling point loca	tions, transects	s, importan	t features, etc.			
Hydrophytic Vegetation Prese	ent? Yes	No X	le the Complete And	_					
Hydric Soil Present?	Yes	No X No X	Is the Sampled Are within a Wetland?		No X				
Wetland Hydrology Present?		No X	within a wetianu:	163	140				
Remarks:									
Recent Rainfall in Ar	rea								
Site is Herbaceous,	Void of Trees an	d Shrubs.							
HYDROLOGY									
Wetland Hydrology Indicato	ers:			Secondary Indic	ators (minimur	n of two required)			
Primary Indicators (minimum o		all that apply)		_	l Cracks (B6)	ii oi two requirea <u>r</u>			
Surface Water (A1)		atic Fauna (B13)				ave Surface (B8)			
High Water Table (A2)	— — ·	Deposits (B15) (LRI	R U)		atterns (B10)	avo Gunado (Bo)			
Saturation (A3)		ogen Sulfide Odor (0		Moss Trim L					
Water Marks (B1)		-	long Living Roots (C3		Water Table (C2)			
Sediment Deposits (B2)	Pres	ence of Reduced Iro	n (C4)	Crayfish Bu	rrows (C8)				
Drift Deposits (B3)	Rece	ent Iron Reduction in	Tilled Soils (C6)	Saturation V	/isible on Aeria	al Imagery (C9)			
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)				
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)									
Inundation Visible on Aeri		FAC-Neutral Test (D5)							
Water-Stained Leaves (B	9)			Sphagnum ı	moss (D8) (LR	R T, U)			
Field Observations:	V								
Surface Water Present?	Yes No X								
Water Table Present?	Yes No X					. Y			
Saturation Present? (includes capillary fringe)	Yes No X	Depth (inches):	Wetlan	d Hydrology Prese	nt? Yes	No X			
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), if	available:					
Remarks:									
None observed, area	a well drained.								

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

Sampling Point:	4
orksheet:	

1. None 2				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)			
2				Total Number of Dominant Species Across All Strata: Percent of Dominant Species [B]			
3				Species Across All Strata: 2 (B) Percent of Dominant Species			
3				Species Across All Strata: 2 (B) Percent of Dominant Species			
4	·			Percent of Dominant Species			
5							
6				That Are OBL, I AGW, OF I AC (A/B)			
7							
8				Prevalence Index worksheet:			
				Total % Cover of: Multiply by:			
				OBL species x 1 =			
		Total Cov		FACW species x 2 =			
50% of total cover:	20% 011	total cover:		FAC species x 3 =			
Sapling/Shrub Stratum (Plot size: ±30)				FACU species x 4 =			
1. None				UPL species x 5 =			
2				Column Totals: (A) (B)			
3				Coldinii Totals (A) (B)			
4				Prevalence Index = B/A =			
5				Hydrophytic Vegetation Indicators:			
6				1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8				3 - Prevalence Index is ≤3.0 ¹			
		Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)			
50% of total cover:	20% of 1	total cover:		1 Toblematic Hydrophytic Vegetation (Explain)			
Herb Stratum (Plot size: ±30)				The directions of booking and so other discontinuous control			
1. Andropogon virginicus 30)	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2. Eupatorium capillifolium 20)	Yes	FACU	Definitions of Four Vegetation Strata:			
3. Cynodon dactylon 10)	No	FACU	Deminions of Four Pogetation Strata.			
4. Kummerowia striata 5		No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
5. Ambrosia artemisiifolia 5		No	FACU	more in diameter at breast height (DBH), regardless of height.			
0		No	FACU				
Decretion untilled		No	FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
7. Paspalum urveilei 5 8. Cyperus echinatus 2		No	FAC				
				Herb – All herbaceous (non-woody) plants, regardless			
9. Ipomoea cordatotriloba 2		No	FACU	of size, and woody plants less than 3.28 ft tall.			
10				Woody vine – All woody vines greater than 3.28 ft in			
11				height.			
12							
84		Total Cov					
50% of total cover: 42	20% of 1	total cover:	16.8				
Woody Vine Stratum (Plot size: ±30)							
1. None							
2							
3							
4							
5				Hydrophytic			
		Total Cov	er	Vegetation			
				Present? Yes No X			
50% of total cover:	_	total cover		11030111: 103			

SOIL Sampling Point: 4

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the in	dicator o	r confirm	the absence of indi	cators.)	
Depth (in a land)	Matrix			x Features		1 - 2	Tandonia	Damada	
(inches) 0-11	Color (moist) 10YR 4/3	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Silt Loam	Remarks	3
				· ——					
11-21	10YR 4/4	100		·			Silty Clay		
									_
				· <u></u>					
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: PL=Pc	re Lining, M=Ma	atrix.
	ndicators: (Applic						Indicators for Pro		
☐ Histosol	(A1)		☐ Polyvalue Be	low Surfac	e (S8) (LF	RR S, T, U	J) 1 cm Muck (A	9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S, T	⁻ , U)	2 cm Muck (A	10) (LRR S)	
Black His			Loamy Muck			O)			e MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		⁻ 2)				9) (LRR P, S, T)
	l Layers (A5) Bodies (A6) (LRR F	т п	Depleted Ma		3)		Anomalous Bi	ight Loamy Soil	s (F20)
	cky Mineral (A7) (L		Depleted Dai	`	,		Red Parent M	,	
	esence (A8) (LRR L		Redox Depre					Dark Surface (T	F12)
1 cm Mu	ck (A9) (LRR P, T)	,	Marl (F10) (L	RR U)	,		Other (Explain	in Remarks)	ŕ
	Below Dark Surfac	e (A11)	Depleted Ocl				2		
_	rk Surface (A12)	MI DA 450A)	Iron-Mangan					hydrophytic ve	
	airie Redox (A16) (lucky Mineral (S1)		Umbric Surfa Delta Ochric			U)	•	drology must be urbed or probler	•
	leyed Matrix (S4)	LIKIK (J, 3)	Reduced Ver			A. 150B)		urbed of probler	nauc.
	edox (S5)		Piedmont Flo						
Stripped	Matrix (S6)		Anomalous E	Bright Loam	y Soils (F	20) (MLR	A 149A, 153C, 153D)		
	face (S7) (LRR P,						1		
	ayer (if observed)	:							
Type:	J \						Hardela Call Day	10 V	No X
	ches):						Hydric Soil Preser	nt? Yes	No <u>^</u>
Remarks:									

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	dustrial Park	City/C	county: St. Martin Pa	rish	_ Sampling Da	ate: 8/28/19	
Applicant/Owner: One Acadia		State: LA	_{oint:} 5				
Investigator(s): C. Hoffpauir		nip, Range: 11-11S-5E					
Landform (hillslope, terrace, etc	Relatively Flat		relief (concave, conve			Slope (%): 0-1	
Subregion (LRR or MLRA): LR	<i></i> ≀R-T	Lat. 602952.73	Long:	3330829.47		Datum: UTM NAD 83	
Soil Map Unit Name: Memphis	s silt loam, 5 to 8 perc	ent slopes (Mh)	Long.	NWI classifi	cation: None	Datum.	
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es X No	(If no, explain in I	Remarks.)		
Are Vegetation No , Soil No	O, or Hydrology No	significantly distur	bed? Are "Norm	nal Circumstances"	present? Yes	x No	
Are Vegetation No , Soil No	o No No No	naturally problema	atic? (If needed	, explain any answ	ers in Remarks	s.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sam	npling point locat	ions, transects	s, importan	t features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No X					
Hydric Soil Present?	Yes	No X No X	Is the Sampled Area within a Wetland?		No X		
Wetland Hydrology Present?		No X	within a wetiand?	res	NO		
Remarks:							
Recent Rainfall in Ar	rea						
Site is Herbaceous,	Void of Trees an	d Shrubs.					
,							
HYDROLOGY							
Wetland Hydrology Indicato				_		n of two required)	
Primary Indicators (minimum o					l Cracks (B6)		
Surface Water (A1)		atic Fauna (B13)			-	ave Surface (B8)	
High Water Table (A2)		Deposits (B15) (LRF			atterns (B10)		
Saturation (A3)		ogen Sulfide Odor (0		Moss Trim L		C0)	
Water Marks (B1)			long Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)		ence of Reduced Iro	` '	Crayfish Bu	` ,	ol Imagany (CO)	
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) This Music Surface (C7)							
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7) ☐ Geomorphic Position (D2) ☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)							
Inundation Visible on Aeri	(0)	FAC-Neutral Test (D5)					
☐ Water-Stained Leaves (B				=	moss (D8) (LR	R T, U)	
Field Observations:	·			<u> </u>		. ,	
Surface Water Present?	Yes No X	Depth (inches):					
Water Table Present?	Yes No X	Depth (inches):					
Saturation Present?	Yes No X	Depth (inches):	Wetland	l Hydrology Prese	nt? Yes	No X	
(includes capillary fringe) Describe Recorded Data (stre	sam gauge monitoring we	all agrial photos pro	vious inspections) if a	vailable:			
Describe Necorded Data (stre	am gauge, monitoring we	sii, aeilai pilotos, pre	vious irispections), ii a	valiable.			
Remarks:							
	o wall drainad						
None observed, area	a well drained.						

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: 5 Absolute Dominant Indicator **Dominance Test worksheet:** __) Tree Stratum (Plot size: ±30 % Cover Species? Status **Number of Dominant Species** 1. None 1 _____ (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 20% of total cover: 50% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: ±30) FACU species _____ x 4 = ____ 1. None UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 _____ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ___ Herb Stratum (Plot size: ±30) ¹Indicators of hydric soil and wetland hydrology must 1. Eupatorium capillifolium Yes **FACU** be present, unless disturbed or problematic. 2. Andropogon virginicus 30 Yes FAC **Definitions of Four Vegetation Strata:** 3. Verbena brasiliensis 10 No UPL Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or Solidago altissima **FACU** No more in diameter at breast height (DBH), regardless of Paspalum urvellei No FAC height. 2 FACU Ipomoea cordatotriloba Nο Sapling/Shrub - Woody plants, excluding vines, less 7. Axonopus fissifolius 2 Nο FACW than 3 in. DBH and greater than 3.28 ft (1 m) tall. 8. Setaria pumila No FAC Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 9. Woody vine - All woody vines greater than 3.28 ft in height. = Total Cover 50% of total cover: 42 ___ 20% of total cover: 16.8 Woody Vine Stratum (Plot size: ±30) 1. None Hydrophytic = Total Cover Vegetation Present? Yes No X 20% of total cover: 50% of total cover: Remarks: (If observed, list morphological adaptations below).

SOIL Sampling Point: 5

		to the dep	th needed to docui			or confire	m the absence of	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture		Remarks	
0-14	10YR 4/3	100	Color (molet)		Турс		Silt Loam		rtomanto	
14-21	10YR 3/2	90	10YR 4/3	10		M	Silty Clay			
14-21	10111 3/2	_ =	10111 4/3	- 10	- —	- 101	Only Clay			_
				_		_				
				_		_				
				_	_	_	<u></u>			
							· · <u></u>			
1Type: C-C	oncentration D-De	nletion PM	=Reduced Matrix, M	S-Macka	d Sand G	raine	² l ocation: I	DI -Doro I	ining, M=Mat	riv
			LRRs, unless othe			iaiiis.			matic Hydric	
Histosol			Polyvalue Be		•	LRR S. T.		uck (A9) (L	-	
	oipedon (A2)		Thin Dark Su		. , .		. —	uck (A10)	•	
	stic (A3)		Loamy Muck			R 0)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)				•) (LRR P, S, T)
_	d Layers (A5) Bodies (A6) (LRR I	D T II\	Depleted Ma	, ,	E6)			_	Loamy Soils	(F20)
	ucky Mineral (A7) (L		=					A 153B) rent Mater	ial (TF2)	
	esence (A8) (LRR		Redox Depre						k Surface (TF	12)
	ıck (A9) (LRR P, T)		Marl (F10) (L	RR U)				Explain in I	,	,
	d Below Dark Surfa	ce (A11)	Depleted Oc	. ,	•		2			
_	ark Surface (A12)	(MI DA 450	Iron-Mangan						drophytic vege	
_	rairie Redox (A16) (//ucky Mineral (S1)	•	A) Umbric Surfa Delta Ochric						ogy must be ped or problem	
_	Gleyed Matrix (S4)	(LIKIT O, O)	Reduced Ve					33 distuibe	a or problem	ano.
	Redox (S5)		Piedmont Flo							
_	l Matrix (S6)		Anomalous E	Bright Loa	my Soils	(F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,						1			
	Layer (if observed):								
Type:			<u> </u>						v	x
	ches):						Hydric Soil F	resent?	Yes	X
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	dustrial Park	City/C	ounty: St. Martin Pa	rish	_ Sampling Da	ate: 8/28/19
Applicant/Owner: One Acadia				State: LA	Sampling Po	_{int:} 6
Investigator(s): C. Hoffpauir		Section	on, Township, Range: _		_ , ,	
Landform (hillslope, terrace, etc	Relatively Flat		relief (concave, convex			Slope (%): 0-1
Subregion (LRR or MLRA): LR	<i></i> ≀R-T	Lat: 602812.52	Long:			
Soil Map Unit Name: Memphis	s silt loam, 5 to 8 perc	ent slopes (Mh)	Long.	NWI classifi	cation: None	Datum.
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es X No	(If no, explain in F	Remarks.)	
Are Vegetation No , Soil No	O, or Hydrology No	significantly distur	bed? Are "Norm	al Circumstances"	present? Yes	X No
Are Vegetation No , Soil No	o No No No	naturally problema	atic? (If needed	, explain any answ	ers in Remarks	s.)
SUMMARY OF FINDING	S – Attach site ma	ap showing sam	pling point locat	ions, transects	s, importan	t features, etc.
Hydrophytic Vegetation Prese	ent? Yes	No X	In the Complete Asses			
Hydric Soil Present?	Yes	No X No X	Is the Sampled Area within a Wetland?		No X	
Wetland Hydrology Present?		No X	within a wettand?	162	NO	
Remarks:						
Recent Rainfall in Ar	rea					
Site is Herbaceous,	Void of Trees an	d Shrubs.				
HYDROLOGY						
Wetland Hydrology Indicato	are:			Secondary Indic	eatore (minimum	n of two required)
Primary Indicators (minimum of		all that apply)		_	l Cracks (B6)	ii oi two requirea)
						ovo Surface (B9)
Surface Water (A1) High Water Table (A2)		atic Fauna (B13) Deposits (B15) (LRF) II/		atterns (B10)	ave Surface (B8)
Saturation (A3)		ogen Sulfide Odor (0		Moss Trim L		
Water Marks (B1)		-	long Living Roots (C3)		i Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bu		02)
Drift Deposits (B3)		ent Iron Reduction in	, ,		/isible on Aeria	I Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)			c Position (D2)	
Iron Deposits (B5)		r (Explain in Remark	as)	Shallow Aqu		
Inundation Visible on Aeri		()	-,	FAC-Neutra		
Water-Stained Leaves (B				_	moss (D8) (LR	R T, U)
Field Observations:	<u>. · ·</u>			<u></u>		-
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):				
Saturation Present?	Yes No X	Depth (inches):	Wetland	Hydrology Prese	nt? Yes	No X
(includes capillary fringe) Describe Recorded Data (stre	eam gauge monitoring we	ell aerial nhotos, nre	vious inspections) if a	vailable.		
Describe Resoluca Bata (stre	an gaage, monitoring we	on, dendi priotos, pre	vious irispeditoris), ir av	valiable.		
Remarks:						
	o wall drained					
None observed, area	a well ulalileu.					

VEGETATION ((Four Strata)	– Use	scientific	names	of plants.
1-0-1/11011	i oui otiutu	, 000	COIOTIUTO	namo v	or planto.

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: 6
Tree Stratum (Plot size: ±30)			nt Indicator	Dominance Test worksheet:
, None			s? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				That Are OBL, FACW, or FAC: (A)
2			_	Total Number of Dominant Species Across All Strata: 2 (B)
3		-	-	Species Across All Strata: 2 (B)
4 -				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
5				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
3		T-1-10		OBL species x 1 =
EOO/ of total across	200/ of			FACW species x 2 =
50% of total cover:	20% 01	total cove	er:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: ±30) None				FACU species x 4 =
`` 				UPL species x 5 =
2				Column Totals: (A) (B)
3				
l				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total C	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: ±30)	40		540	¹ Indicators of hydric soil and wetland hydrology must
Andropogon virginicus	40	Yes	FAC	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	30	Yes	FACU	Definitions of Four Vegetation Strata:
Nerbena brasiliensis	10	No	_ UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Paspalum urvellei	_ 5	No	FAC	more in diameter at breast height (DBH), regardless of
5. Solidago altissima	_ 5	No	FACU	height.
Sorghum halepense	_ 2	No	FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Phyllanthus urinaria	_ 2	No	FAC FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. Ipomoea cordatotriloba	_ 2	No	FACU	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11		-		height.
2				
	96	= Total C	over	
50% of total cover: 42	20% of	total cove	er: 16.8	
Noody Vine Stratum (Plot size: ±30)				
None None				
2.				
3				
4. <u> </u>				
5.				Hydrophytic
			over	Vegetation
50% of total cover:				Present? Yes No X
		total cove	···	
Remarks: (If observed, list morphological adaptations be	elOW).			

SOIL Sampling Point: 6

Profile Desc	cription: (Describe	to the dept	n needed to docum	nent the	indicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix			x Feature	es _ 1	. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-10	10YR 4/2	100					Silt Loam			
10-20	10YR 3/2	98	5YR 4/6	2	С	M	Silty Clay	Few/Fair	nt	
										_
				. ———						
					_					
¹Type: C=C	oncentration, D=De	nletion RM-	Reduced Matrix MS	S-Maska	d Sand G	rains	² Location:	PI -Pore I	ining, M=Matr	iv
	Indicators: (Applie					iaiiis.			matic Hydric	
☐ Histosol			Polyvalue Be		•	IRRSTI		Muck (A9) (I	-	
	pipedon (A2)		Thin Dark Su					Muck (A3) (1		
_	istic (A3)		Loamy Mucky							MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,				(LRR P, S, T)
	d Layers (A5)		Depleted Mat		()				Loamy Soils	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		F6)			RA 153B)	·	` ,
5 cm Mu	ucky Mineral (A7) (L	RR P, T, U)	Depleted Dar	k Surface	e (F7)		Red P	arent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR I	U)	Redox Depre	ssions (F	8)		<u></u> Very S	Shallow Darl	k Surface (TF	12)
	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)			U Other	(Explain in I	Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Och				0			
1 =	ark Surface (A12)		Iron-Mangan		, ,	•			drophytic vege	
	rairie Redox (A16) (ogy must be p	
	Mucky Mineral (S1) ((LRR O, S)	Delta Ochric					ess disturbe	ed or problema	atic.
_	Gleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo					1E2D)		
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomaious B	origini Loa	my Sons	(FZU) (WILF	RA 149A, 153C	, 1530)		
	Layer (if observed)									
Type:	Layor (ii obool vou)	,.								
	ohoo):						Hydric Soil	Bracant?	Yes	No X
Depth (in	cries).						Hydric 30ii	i Fresent?	165	NO
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail Industri	al Park	City/C	ounty: St. Mar	tin Parish	Sampling Date: 8/28/19
Applicant/Owner: One Acadiana			,	State: LA	Sampling Date: 8/28/19 Sampling Point: 7
Investigator(s): C. Hoffpauir		Section			
Landform (hillslope, terrace, etc.): Ric				-	Slope (%): 1-3
Subregion (LRR or MLRA): LRR-T		Lat. 602887.09	(00000,	Long. 3330970.62	Datum: UTM NAD 83
Subregion (LRR or MLRA): LRR-T Soil Map Unit Name: Memphis-Fros	t complex, gent	 ly undulating (Mp)	<u> </u>	NWI classific	ation: None
Are climatic / hydrologic conditions on					
Are Vegetation No , Soil No , c					
Are Vegetation No , Soil No , c	r Hydrology No	significantly distan	otio? (If r	pooded explain any answer	re in Pomarke)
SUMMARY OF FINDINGS –					
			ipinig ponit	iocations, transcots	, important reatures, etc.
Hydrophytic Vegetation Present?	Yes	No ^	Is the Sample	d Area	
Hydric Soil Present?	Yes	No X	within a Wetla	and? Yes	No X
Wetland Hydrology Present? Remarks:	Yes	NO <u>^</u>			
Recent Rainfall in Area					
	of Tropp on	d Chruba			
Site is Herbaceous, Void	or rrees an	a Siliubs.			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one	is required; check	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aqua	atic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		<u></u> Drainage Pa	
Saturation (A3)		ogen Sulfide Odor (0		Moss Trim Li	
Water Marks (B1)		ized Rhizospheres a			Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		ence of Reduced Iro ent Iron Reduction in	. ,	☐ Crayfish Buri	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	111100 00110 (00		Position (D2)
Iron Deposits (B5)		r (Explain in Remark	(S)	Shallow Aqui	` '
Inundation Visible on Aerial Image	gery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
		Depth (inches):			
		Depth (inches):			V
Saturation Present? Yes (includes capillary fringe)	No X	Depth (inches):	N	etland Hydrology Presen	t? Yes No X
Describe Recorded Data (stream ga	uge, monitoring we	ell, aerial photos, pre	vious inspection	s), if available:	
Remarks:					
None observed, area we	ll drained.				

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

50% of total cover: ___

_____)

___ = Total Cover ____ 20% of total cover: ____

50% of total cover: _____ 20% of total cover: ____

20

Tree Stratum (Plot size: ±30

Sapling/Shrub Stratum (Plot size: ±30

Herb Stratum (Plot size: ±30 Kummerowia striata

2. Andropogon virginicus

Setaria pumila

3. Eupatorium capillifolium

Verbena brasiliensis

Paspalum urvellei

Ipomoea quamoclit

Coreopsis tinctoria

12. Ipomoea cordatotriloba

Iva annua Richardia scabra

1. None

Bothriochloa ischaemum

1. None

	ants.		S	Samplir	ng Point: 7	
	Dominant Species?		Dominance Test workshee	et:		
% Cover	Species?	Status	Number of Dominant Specie That Are OBL, FACW, or FA		1	(A)
			Total Number of Dominant Species Across All Strata:	_	3	(B)
			Percent of Dominant Specie That Are OBL, FACW, or FA		33	(A/B)
			Prevalence Index workshe			
			Total % Cover of:			
	= Total Cov	er			=	
_	total cover		FACW species	_ x 2	=	_
		·	· -	_ x 3	=	_
			FACU species	_ x 4	=	_
			UPL species	_ x 5	=	
			Column Totals:	_ (A)		(B)
			Prevalence Index = B	_		
			Hydrophytic Vegetation In			
			1 - Rapid Test for Hydro		Vegetation	
			2 - Dominance Test is >	>50%		
			3 - Prevalence Index is	≤3.0 ¹		
	= Total Cov		Problematic Hydrophyti	ic Vege	etation ¹ (Expla	iin)
_ 20% or	total cover:	·				
	Yes	FACU	¹ Indicators of hydric soil and be present, unless disturbed	d wetla	nd hydrology oblematic.	must
20			···			
	Yes	FAC	Definitions of Four Vegeta			
20 20 20	Yes Yes	FACU		ation S	Strata:	\ O
20			Definitions of Four Vegeta Tree – Woody plants, exclumore in diameter at breast h	ation S	Strata: nes, 3 in. (7.6	
20 20 10	Yes	FACU	Tree – Woody plants, exclude	ation S	Strata: nes, 3 in. (7.6	
20	Yes No	FACU FAC	Tree – Woody plants, exclumore in diameter at breast height.	ation S ding vi	Strata: nes, 3 in. (7.6 (DBH), regard	less of
20 20 10 5	Yes No No	FACU FAC UPL	Tree – Woody plants, exclumore in diameter at breast h	ding vineight	itrata: nes, 3 in. (7.6 (DBH), regard xcluding vines	less of s, less
20 20 10 5	Yes No No	FACU FAC UPL UPL	Tree – Woody plants, exclumore in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater in the same content of the same	ding vineight ants, ethan 3	etrata: nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal	less of s, less l.
20 20 10 5 5	Yes No No No No	FACU FAC UPL UPL FAC	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater the diameter of the diamet	ding vineight ants, ethan 3	etrata: nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, rega	less of s, less l.
20 20 10 5 5 2	Yes No No No No No No	FACU FAC UPL UPL FAC FACU	Tree – Woody plants, exclumore in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater their – All herbaceous (non of size, and woody plants le	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2	Yes No No No No No No No No No	FACU FAC UPL UPL FAC FACU FAC	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2	Yes No	FACU FAC UPL UPL FAC FACU FAC FACU	Tree – Woody plants, exclumore in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater their – All herbaceous (non of size, and woody plants le	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2	Yes No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FACU FAC	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less of s, less l. ardless
20 20 10 5 5 2 2 2 2 2 2 2 2	Yes No To No No To No	FACU FAC UPL UPL FAC FACU FAC FACU FAC FAC UPL FACU FAC FACU FACU FACU FACU FACU FACU	Tree – Woody plants, exclusioner in diameter at breast height. Sapling/Shrub – Woody plathan 3 in. DBH and greater than 3 in. DBH and greater than 5 in. DB	ding vineight ants, ethan 3	nes, 3 in. (7.6 (DBH), regard xcluding vines .28 ft (1 m) tal y) plants, regans n 3.28 ft tall.	less o s, less l. ardless

Remarks: (If observed, list morphological adaptations below).

Woody Vine Stratum (Plot size: ±30)

50% of total cover: 46

50% of total cover:

SOIL Sampling Point: 7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Texture (inches) 100 0-12 10YR 4/3 Silt Loam 12-20 10YR 4/4 100 Silty Clay ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Polyvalue Below Surface (S8) (LRR S, T, U) Histosol (A1) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) Stratified Layers (A5) Depleted Matrix (F3) 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) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) 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, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: _ No X **Hydric Soil Present?** Depth (inches): Yes Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Spanish Trail In	dustrial Park	City/C	ounty: St. Martin Par	rish	_ Sampling Da	ate: 8/28/19
Applicant/Owner: One Acadia				State: LA	Sampling Po	int: 8
Investigator(s): C. Hoffpauir		Section	on, Township, Range: _		_ , ,	
Landform (hillslope, terrace, etc	Relatively Flat		relief (concave, convex			Slope (%): 0-1
Subregion (LRR or MLRA): LR	<i></i> ≀R-T	Lat: 602851.09	Long:			
Soil Map Unit Name: Memphis	s-Frost complex, gent	_ Lat ly undulating (Mp)	Long.	NWI classifi	cation: None	Datum.
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es X No	(If no, explain in F	Remarks.)	
Are Vegetation No , Soil No	O, or Hydrology No	significantly distur	bed? Are "Norma	al Circumstances"	present? Yes	X No
Are Vegetation No , Soil No	O, or Hydrology No	naturally problema	atic? (If needed,	explain any answe	ers in Remarks	s.)
SUMMARY OF FINDING	S - Attach site ma	ap showing sam	pling point locati	ions, transects	s, importan	t features, etc.
Hydrophytic Vegetation Prese	ent? Yes	No X				
Hydric Soil Present?	Yes	No X No X	Is the Sampled Area within a Wetland?		No X	
Wetland Hydrology Present?		No X	within a wetiand?	res	NO	
Remarks:						
Recent Rainfall in Ar	rea					
Site is Herbaceous,	Void of Trees an	d Shrubs.				
LIVEROLOGY						
HYDROLOGY				0	-1/	((
Wetland Hydrology Indicato		all that are by				n of two required)
Primary Indicators (minimum o					l Cracks (B6)	0 ((D0)
Surface Water (A1)		atic Fauna (B13)	D III\		-	ave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF ogen Sulfide Odor (C			atterns (B10)	
Saturation (A3) Water Marks (B1)		-	long Living Roots (C3)	Moss Trim L	illes (B16) Water Table (C3)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bu		02)
Drift Deposits (B3)		ent Iron Reduction in	, ,	= 1	/isible on Aeria	I Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Collo (Co)		c Position (D2)	initiagery (00)
Iron Deposits (B5)		r (Explain in Remark	:s)	Shallow Aqu		
Inundation Visible on Aeri		(=/	,	FAC-Neutra		
Water-Stained Leaves (B	• • • •			=	moss (D8) (LR	R T, U)
Field Observations:	·					
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X					
Saturation Present?	Yes No _X	Depth (inches):	Wetland	Hydrology Prese	nt? Yes	No X
(includes capillary fringe) Describe Recorded Data (stre	eam gauge monitoring we	all aerial photos pre	vious inspections) if a	vailable:		
Describe Necorded Data (Sire	am gauge, monitoring we	en, aenai priotos, pre	vious irispections), ii av	rallable.		
Remarks:						
	o wall drainad					
None observed, area	a well drained.					

VEGETATION (Four Strata) – Use	scientific	names o	of plants.
1-0-1/11011	i oui otiutu	,	, 00101111110	marmoo c	n piarito.

Tree Stratum (Plot size: ±30	over		Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
1. None 2				That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species
2.				Total Number of Dominant Species Across All Strata: Percent of Dominant Species 50
3.				Species Across All Strata: 2 (B) Percent of Dominant Species
4				Percent of Dominant Species
5				
6				That Are OBL, FACW, or FAC: 50 (A/B)
7.				
8				Prevalence Index worksheet:
50% of total cover: 20 Sapling/Shrub Stratum (Plot size: ±30)				Total % Cover of: Multiply by:
50% of total cover: 20 Sapling/Shrub Stratum (Plot size: ±30)				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: ±30)		= Total Cov		FACW species x 2 =
None	% of	total cover	:	FAC species x 3 =
4 None				FACU species x 4 =
1. None				
2				
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 20				Froblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: ±30)				1 a disease of budgie on it and westered budgetons and
1. Cynodon dactylon 30		Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon virginicus 30		Yes	FAC	Definitions of Four Vegetation Strata:
3. Rottboellia cochinchinensis 10		No	FACU	John Mondo of Four Pogotation Official
4. Eupatorium capillifolium 10		No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Solidago altissima 5	_	No	FACU	more in diameter at breast height (DBH), regardless of height.
6. Paspalum urvellei 5		No	FAC	
7. Verbena brasiliensis 2		No	UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Ipomoea quamoclit 2		No	FACU	than 3 iii. DDi i and greater than 3.20 it (1 iii) taii.
9. Phyllanthus urinaria 2		No	FAC	Herb – All herbaceous (non-woody) plants, regardless
·				of size, and woody plants less than 3.28 ft tall.
10		No	FACU	Woody vine - All woody vines greater than 3.28 ft in
11. Rubus triviallis 2		No	FACU	height.
12				
100		= Total Cov		
	% of	total cover	: <u>20</u>	
Woody Vine Stratum (Plot size: ±30)				
1. None				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover: 20	% of	total cover	:	Present? Yes No X
Remarks: (If observed, list morphological adaptations below).				

SOIL Sampling Point: 8

	ription: (Describe	to the depth			licator o	r confirm	the absence	of indicato	rs.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	Type ¹	Loc ²	Texture		Remark	rs
0-11	10YR 4/2	100	Odior (moist)		Турс	LOC	Silt Loam	No redox		
11-21	10YR 4/3	100					Silt Loam	No redox		_
	10111 1/0							1101000		
				· —— –				-		
	_									
	ncentration, D=Dep					ins.	² Location:	PL=Pore Li	ining, M=M	atrix.
Hydric Soil I	ndicators: (Applic	cable to all L	RRs, unless other	wise noted	.)		Indicators	for Probler	matic Hydr	ric Soils ³ :
Histosol			Polyvalue Be					Лиск (А9) (L		
	ipedon (A2)		Thin Dark Su					Muck (A10) (Io MI DA 150A D\
Black His	n Sulfide (A4)		Loamy Mucky Loamy Gleye			0)				le MLRA 150A,B) 19) (LRR P, S, T)
	Layers (A5)		Depleted Mar		-)			alous Bright		
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6)				RA 153B)		, ,
	cky Mineral (A7) (L		Depleted Dar	,	7)			arent Materi		
	esence (A8) (LRR l ck (A9) (LRR P, T)	J)	Redox Depre	` ,				Shallow Dark (Explain in F		F12)
	Below Dark Surfac	ce (A11)	Depleted Och		ILRA 15	1)	<u> </u>	(Explain in r	(emarks)	
= :	rk Surface (A12)	(****)	Iron-Mangan	, , ,		,	T) ³ Indic	cators of hyd	drophytic ve	egetation and
	airie Redox (A16) (Umbric Surfa	ce (F13) (LF	RR P, T,	U)		tland hydrolo		
	lucky Mineral (S1) (LRR O, S)	Delta Ochric					ess disturbe	d or proble	matic.
	leyed Matrix (S4) edox (S5)		Reduced Ver							
	Matrix (S6)				, ,		.эд) A 149A, 153C	. 153D)		
= ::	face (S7) (LRR P,	S, T, U)	/ the male de E	rigin Loanly	0.100	20) (2.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 1002)		
	ayer (if observed)									
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes	No X
Remarks:										

ATTACHMENT D

Site Photographs



Photograph 1 Sample Plot 1



Photograph 2 General View of Plot 1 Facing North



Photograph 3
General View of Plot 1 Facing East



Photograph 4 General View of Plot 1 Facing South



Photograph 5 General View of Plot 1 Facing West



Photograph 6 Sample Plot 2



Photograph 7 General View of Plot 2 Facing North



Photograph 8
General View of Plot 2 Facing East



Photograph 9 General View of Plot 2 Facing South



Photograph 10 General View of Plot 2 Facing West



Photograph 11 Sample Plot 3



Photograph 12 General View of Plot 3 Facing North



Photograph 13 General View of Plot 3 Facing East



Photograph 14 General View of Plot 3 Facing South



Photograph 15 General View of Plot 3 Facing West



Photograph 16 Sample Plot 4



Photograph 17 General View of Plot 4 Facing North



Photograph 18 General View of Plot 4 Facing East



Photograph 19 General View of Plot 4 Facing South



Photograph 20 General View of Plot 4 Facing West



Photograph 21 Sample Plot 5



Photograph 22 General View of Plot 5 Facing North



Photograph 23 General View of Plot 5 Facing East



Photograph 24 General View of Plot 5 Facing South



Photograph 25 General View of Plot 5 Facing West



Photograph 26 Sample Plot 6



Photograph 27 General View of Plot 6 Facing North



Photograph 28 General View of Plot 6 Facing East



Photograph 29 General View of Plot 6 Facing South



Photograph 30 General View of Plot 6 Facing West



Photograph 31 Sample Plot 7



Photograph 32 General View of Plot 7 Facing North



Photograph 33 General View of Plot 7 Facing East



Photograph 34 General View of Plot 7 Facing South



Photograph 35 General View of Plot 7 Facing West



Photograph 36 Sample Plot 8



Photograph 37 General View of Plot 8 Facing North



Photograph 38 General View of Plot 8 Facing East



Photograph 39 General View of Plot 8 Facing South



Photograph 40 General View of Plot 8 Facing West



Photograph 41 View of Small Drain near North Property Boundary facing West



Photograph 42 View of Small Drain near North Property Boundary facing East



Photograph 43 View of Large Drain near Center of Tract, facing East



Photograph 44
View of Large Drain near Center of Tract, facing West