Exhibit EE: Whitehall Industrial Site Wetlands Delineation Report





Chenier Environmental Consulting, LLC

P.O. Box 82466 Baton Rouge, LA 70884 Business: 225-235-9557

E-mail: aaronbass@chenierenvironmental.com

January 5, 2024

Mr. Dan Purvis Louisiana Central 1302 Murray Street Alexandria, LA 71301

Whitehall Industrial Site Wetlands Delineation Report

Via e-mail: <u>dpurvis@louisiana-central.com</u>

Subject: Wetland Delineation Report

Whitehall Industrial Site, Concordia Parish

Chenier Project No: 23-236

Dear Mr. Purvis,

Chenier Environmental Consultants, LLC (Chenier) is pleased to submit this wetland delineation report on the Whitehall Industrial Site in Concordia Parish, Louisiana.

BACKGROUND

This report presents field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands. This report was prepared in accordance with the *Corps of Engineers Wetlands Delineation Manual* (U.S. Army Corps of Engineers, Waterways Experiment Station 1987) and subsequent guidance provided in the Regional Supplement to the *Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* (U.S. Army Corps of Engineers, Wetland Regulatory Assistance Program 2010). Chenier Environmental biologists visited the Site on December 19, 2023 and January 2, 2024, and collected field data on three diagnostic parameters- soils, vegetation, and hydrology.

Prior to field reconnaissance, Chenier reviewed the United States Department of Agriculture (USDA) Web Soil Survey (https://websoilsurvey.nrcs.usda.gov/app/), United States Geological Survey (USGS) 7.5-minute topographic maps, and relevant aerial photography. Included for your review are: Attachment A: Figure 1-Vicinity Map; Figure 2-Wetland Delineation Map; Exhibit 1-Site Photographs, Exhibit 2-Routine Wetland Determination Forms-Atlantic and Gulf Coastal Plain Region, and Exhibit 3-Stream Data Forms.

Project Location and Description

The approximately 520-acre Site is located off LA 131 southwest of Vidalia in Concordia Parish, Louisiana (**Figure 1**). The Site is bordered by agricultural fields and the Vidalia Canal to the

north; LA 131 then the Mississippi River to the south; agricultural fields to the east; and DA Biglane Road then agricultural fields to the west. Access is via LA 131 and DA Biglane Road. The Site is predominantly farmland that was recently planted with soybeans. Based on a review of historical USGS topographic maps, the Site appears to have been part of the Whitehall Plantation and used as agricultural land since at least the early 1900s.

Soils

The NRCS Web Soil Survey was used to determine mapped soil series. The revised official series descriptions were used to confirm profile matrix, redox features, and texture of soils underlying the Site. The Web Soil Survey shows that the Site may be underlain by Commerce silt loam, Commerce silty clay loam, Sharkey clay, and Bruin silt loam (NRCS Web Soil Survey 2023). **Table 1** shows the soil map unit name, soil unit percentage for the site, and the hydric status of the soil.

Table 1: NRCS Web Soil Survey Data

Map Unit Name	Soil Unit Site	Hydric Status
	Percentage	
Commerce silt loam (Ca)	49	Hydric
		(Sharkey)
Bruin silt loam (Bn)	12	Hydric
Commerce silty clay loam (Cm)	20	Hydric
Sharkey clay (Sh)	19	Hydric

Vegetation

The Site is an agricultural field that was recently planted with soybeans. The unplanted edges of the field, dirt roads and turnrows are colonized by typical facultative upland (FACU) species including *Lolium perenne* (perennial ryegrass), *Trifolium repens* (white clover), and *Geranium carolinianum* (Carolina geranium). A complete list of dominant species is included in the attached Routine Wetland Determination Data Forms (Exhibit 2). The wetland criterion for a prevalence of hydrophytic vegetation was not met at any of the sample locations established by Chenier to characterize the Site.

Hydrology

The Site is in the Lower Red River Basin within the Bayou Cocodrie subbasin (HUC) 08040306 approximately 0.5 mile west of the Mississippi River. A network of ditches drain the agricultural fields. These ditches flow via subsurface pipes into the Vidalia Canal to the northeast and Whitehall Lake to the south (Figure 2). No primary or secondary wetland hydrology indicators were observed at DP1 through DP4. Copies of Stream Data Forms are included in Exhibit 3.

Conclusions

Most of the Site is a well-drained agricultural field. Positive evidence of all three diagnostic characteristics for wetlands was not observed at any of the sample locations established by Chenier. No wetlands were identified on the Site. Seven intermittent agricultural drainage ditches were identified (Figure 2). These appear to be jurisdictional Waters of the U.S.

Should you have any questions about the report, please contact me at 225-235-9557 or via email at Aaronbass@chenierenvironmental.com.

Sincerely,

Chenier Environmental Consulting, LLC

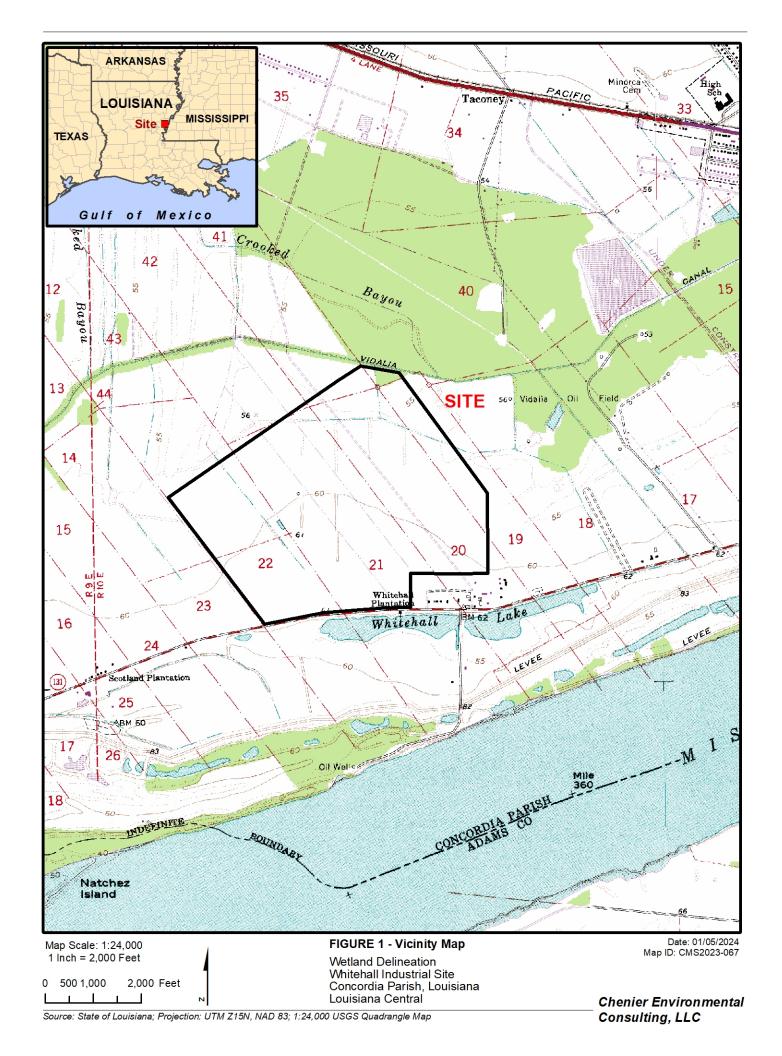
aron S. Bass, Ph.D.

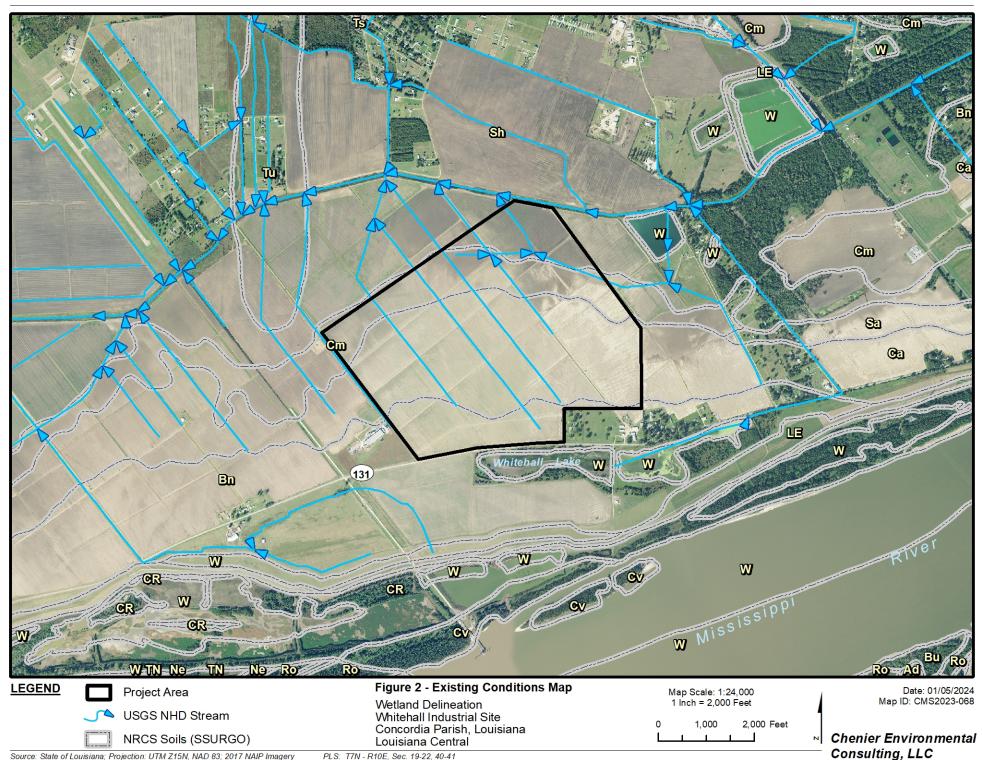
Chenier Environmental Consulting, LLC

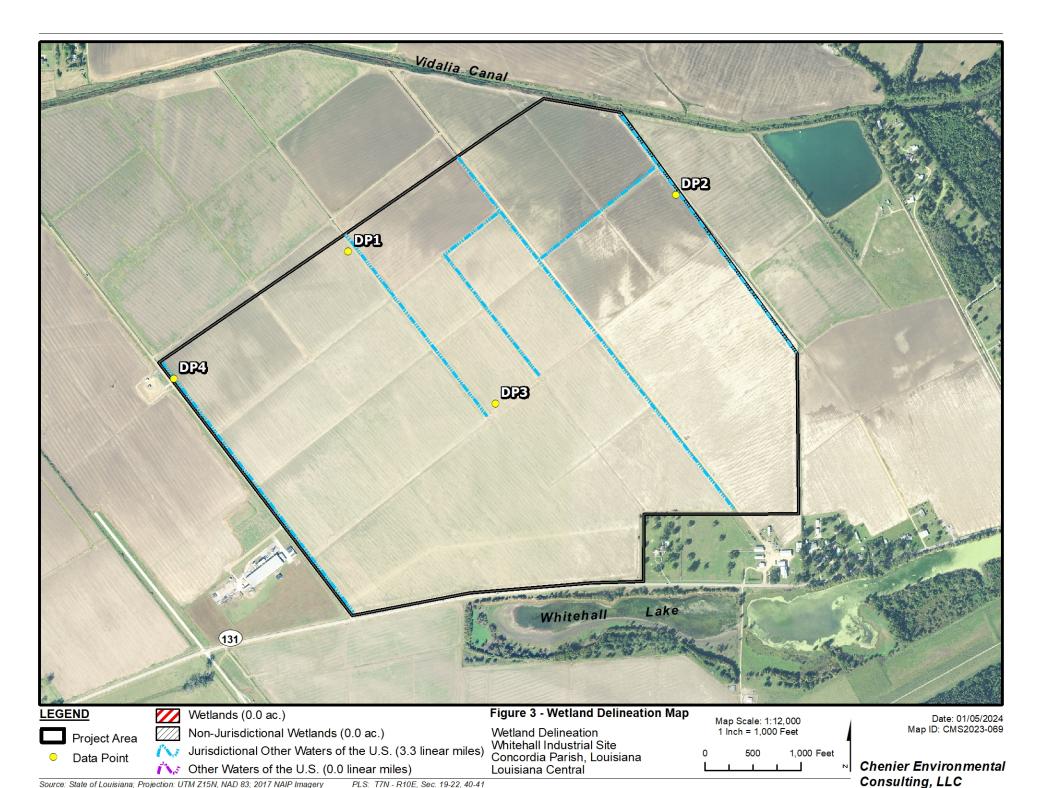
4607 Bluebonnet, Blvd. Suite A

Baton Rouge, Louisiana 70809

ATTACHMENT A FIGURES









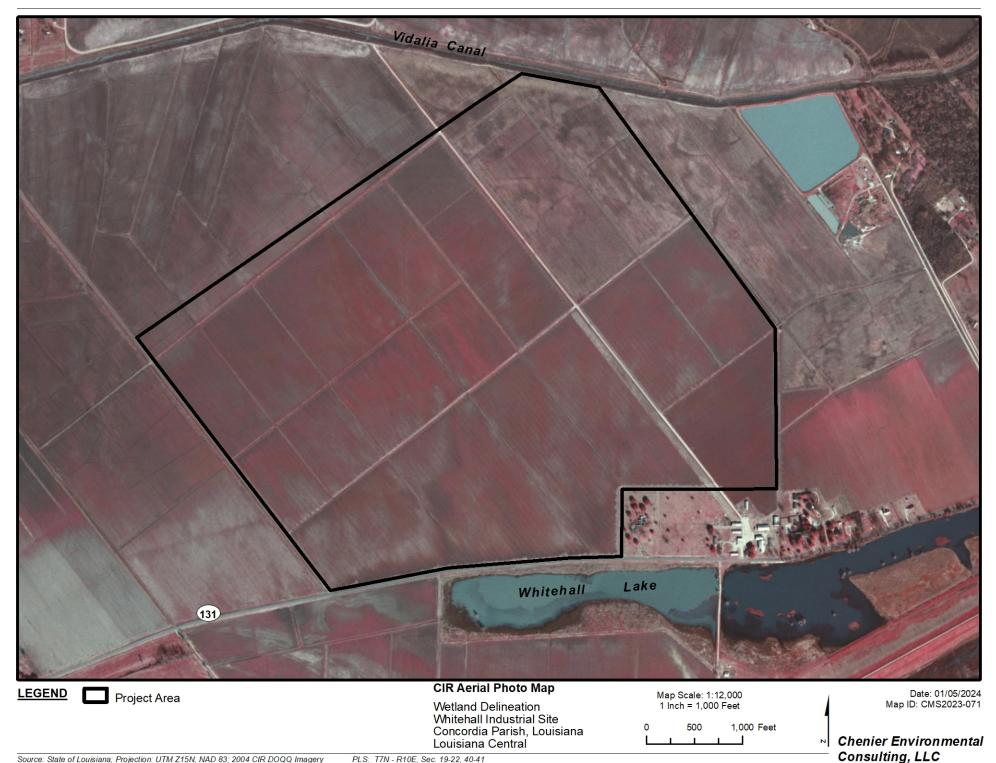


EXHIBIT 1 SITE PHOTOGRAPHS



1. View of site facing east along LA 131



2. Typical view of the site



3. Drain pipe along the south side of the site



4. Drain pipe and culvert that flows beneath LA 131 to Whitehall Lake



5. DP1



6. DP1 Soils



12.

DP3 soil

APPENDIX A: SITE PHOTOGRAPHS Project No. 236

11.

DP3



DP3 soil 13.



14. DP4



DP4 soil 15.



16. DP4 soil



17. S1



18. S2

APPENDIX A: SITE PHOTOGRAPHS Project No. 236



19. Typical field drain pipe



20. S4



21. S5



22. S5 outfall into Vidalia Canal



23. S6



24. S7

APPENDIX A: SITE PHOTOGRAPHS Project No. 236

EXHIBIT 2 ROUTINE WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whitehall Industrial Site	City/County: Concordia Parish Sampling Date: 1/2/2024				
Applicant/Owner: Louisiana Central/Louisiana Economic Development					
Investigator(s): A. Bass					
	cal relief (concave, convex, none): none Slope (%): 0-2				
Subregion (LRR or MLRA): <u>LRR O</u> Lat: <u>31° 33.411</u>	1'0-2 Long: <u>091° 29.138'</u> Datum: <u>UTM</u>				
Soil Map Unit Name: Sharkey clay	NWI Classification: Not applicable				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No X (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _X_ significantly disturbed					
Are Vegetation, Soil, or Hydrology naturally problematic?					
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No _X	le the Sampled Area				
Hydric Soil Present? Yes No _X	within a Wetland? Yes NoX				
Wetland Hydrology Present? Yes No _X					
Remarks: Drought conditions existed at the time of the data collection. Data point is I The area is an agricultural field that has been significantly disturbed by nor					
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (E	Surface Soil Cracks (B6)				
High Water Table (A2) Saturation (A3) Marl Deposits (B Hydrogen Sulfide	B15) (LRR U) Drainage Patterns (B10)				
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizos Sediment Deposits (B2) Presence of Red	pheres on Living Roots (C3) Noss Hill Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits (B2) Presence of Red Presence of Red	duced Iron (C4) Crayfish Burrows (C8)				
Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Red Thin Muck Surfa	luction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) lice (C7) Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in					
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR 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):	Wetland Hydrology Present? Yes No _X_				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro USGS 7.5-minute topographic map, aerial photographs	evious inspections), if available:				
Remarks:					

Sampling	Point	DP-1
Sambiind	Point	DF-1

				Dominance Test worksheet:
Tree Stratum (Plot size: ft radius)	Absolute	Dominant Species?	Indicator	
Tree Stratum (Plot size: ft radius) 1. N/A	76 Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				That Are OBE, FACW, OF FAC (A)
				. Total Number of Dominant
				Species Across All Strata: 3 (B)
				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7 8.				Dusyalan as Inday wantah satu
8				Prevalence Index worksheet: Total % Cover of: Multiply by:
50 0/ of total account	20.0/	= Total Co		
50 % of total cover:	20 % 0	of total cover	·	OBL species
Sapling/Shrub Stratum (Plot size: ft radius)				FACW species
. •				FAC species
1. <u>N/A</u> 2.				FACU species
2				UPL species
				Column Totals: (B)
4 5.				(b)
				•
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
8		T-1-1-0		1 – Rapid Test for Hydrophytic Vegetation
F00/ - \$ 1-1-1		= Total Co		2 – Dominance Test is > 50%
50% of total cover	20 % 6	of total cover	:	3 – Prevalence Test is ≤ 3.0¹
Herb Stratum (Plot size: ft radius)				Problematic Hydrophytic Vegetation ¹ (Explain)
4. Tuifelium nemena (vulaita alauran)	25	V	FACU	
2 Lalium paranna (parannial magraca)		Y		¹ Indicators of hydric soil and wetland hydrology must
Lolium perenne (perennial ryegrass) Geranium carolinianum (Carolina geranium)		Y	FACU	be present, unless disturbed or problematic.
1		Y		Definitions of Vegetation Strata:
4				Tree Mandy plants evaluding woody vines
5				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
6				(7.6 cm) or larger in diameter at breast height (DBH).
7				
8				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9.				than 3 in. (7.6 cm) DBH.
10				-
11				Shrub – Woody plants, excluding woody vines,
12				approximately 3 to 20 ft (1 to 6 m) in height.
	75	= Total Cov		Herb – All herbaceous (non-woody) plants, including
50 % of total cover: <u>37.5</u>	20 % c	of total cover	: 15	herbaceous vines, regardless of size. Includes woody
Manda Vina Charlesa (District and addiss				plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size: ft radius s)				3 ft (1 m) in height.
1. <u>N/A</u> 2.			-	Woody vine – All woody vines, regardless of height.
				-
3.				
4				
5				Hydrophytic Vegetation
		= Total Cov		Present? Yes No X
50 % of total cover:	20 % c	of total cover	:0.	
Remarks: (Include photo numbers here or on a separa	ite sheet.)			1
, , ,	,			
Photos: 5, 6, 7				

SOIL Sampling Point: DP-1

		to the depth r	needed to document the inc		the absence	of indicators.)		
Depth (inches)	Color (moist)	%	Redox Feature Color (moist) %	Type ¹ Loc ²	Texture	Ren	narks	
0-21	10YR 4/3	100	70	Type Loc	silty	Brown disturbe		<u></u>
0-21	1011(4/3	100			Silty	DIOWII disturbe	su son	_
¹Type: C=C	oncentration, D=De	pletion, RM=Re	educed Matrix, CS=Covered	or Coated Sand Gra	nins. ² l	Location: PL=Pore L	ining, M=Matr	ix.
Hydric Soil	Indicators:				Indica	ators for Problemat	ic Hydric Soil	s³:
Histosol ((A1)		Polyvalue Below Surface	e (S8) (LRR S, T, U)	1 cm	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Suface (S9) (L	.RR S, T, U)	2 cm	Muck (A10) (LRR S)	
Black His	stic (A3)		Loamy Gleyed Matrix (F	1) (LRR O)	Redu	iced Vertic (F18) (ou	tside MLRA 1	50A,B)
Hydroger	n Sulfide (A4)		Loamy Gleyed Matrix (F2	2)	Piedr	mont Floodplain Soils	s (F19) (LRR F	P, S, T)
Stratified	Layers (A5)		Depleted Matrix (F3)		Anon	nalous Bright Loamy	Soils (F20)	
Organic E	Bodies (A6) (LRR P	[,] T, U)	Redox Dark Surface (F6)	(M	LRA 153B)		
5 cm Mu	cky Mineral (A7) (Ll	RR P, T, U)	Depleted Dark Surface (- 7)	Red I	Parent Material (TF2)	
Muck Pre	esence (A8) (LRR U	J)	Redox Depressions (F8)		Very	Shallow Dark Surfac	e (TF12)	
1 cm Mud	ck (A9) (LRR P, T)		Marl (F10) (LRR U)		Other	r (Explain in Remark	s)	
Depleted	Below Dark Surfac	e (A11)	Depleted Ochric (F11) (N	/ILRA 151)				
Thick Da	rk Surface (A12)		Iron Manganese Masses	(F12) (LRR O, P, T) _{3Indic}	cators of Hydrophytic	vegetation an	nd
Coast Pra	airie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (L	RR P, T, U)		nd hydrology must b		
Sandy M	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric (F17) (MLR	A 151)	distu	rbed or problematic.		
Sandy Gl	eyed Matrix (S4)		Reduced Vertic (F18) (M	LRA 150A, 150B)				
	edox (S5)		Piedmont Floodplain Soi					
	Matrix (S6) face (S7) (LRR P, S	S, T, U)	Anomalous Bright Loamy	/ Soils (F20) (MLRA	149A, 153C	, 153D)		
Restrictive I	Layer (if observed):						
Type:	N/A		_	Hydric Soil Pre	esent?	Yes	No	X
Depth (in	ches): N/A		=					
Remarks:				1				

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whitehall Industrial Site	City/County: Concordia Parish Sampling Date: 1/2/2024				
Applicant/Owner: Louisiana Central/Louisiana Economic Development	State: Louisiana Sampling Point: DP2				
Investigator(s): A. Bass	Section, Township, Range: Section 19 T7N R10E				
Landform (hillslope, terrace, etc.) Agricultural field Lo	cal relief (concave, convex, none): none Slope (%): 0-2				
Subregion (LRR or MLRA): <u>LRR O</u> Lat: <u>31° 33.43</u>	8' Long: <u>091° 29.428''</u> Datum: <u>UTM</u>				
Soil Map Unit Name: Sharkey clay	NWI Classification: Not applicable				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No X (If no, explain in Remarks.)				
Are Vegetation, Soil, or HydrologyX_ significantly disturbed	Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes NoX				
Wetland Hydrology Present? Yes No _X					
Drought conditions existed at the time of the data collection The site is an agricultural field that has been disturbed by normal farming	practices.				
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Saturation (A3) Hydrogen Sulfid					
Water Marks (B1) Oxidized Rhizos	pheres on Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2) Drift Deposits (B3) Presence of Rec Recent Iron Rec	duced Iron (C4) — Crayfish Burrows (C8) luction in Tilled Soils (C6) — Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surfa	ce (C7) Geomorphic Position (D2)				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in	n Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR 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): (includes capillary fringe)	Wetland Hydrology Present? Yes No _X_				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr USGS 7.5-minute topographic map, aerial photographs	evious inspections), if available:				
Remarks:					
Tromano.					

SOIL Sampling Point: DP2

			h needed to document the		the absence	of indicators.)	
Depth (inches)	Color (moist)	<u>«</u>	Redox Feat Color (moist) %	tures Type ¹ Loc ²	Texture	Rema	arke
0-3	10YR 4/3	100	Ocioi (moist) 70	Type Loc	silt	Brown dist	
4-21	10YR 3/2	75	10YR 4/6	RM	Silty clay	Reddish	
4-21	10110 3/2	13	1011(4/0	TXIVI	Only clay	reduisii	mottles
							
¹Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, CS=Cover	ed or Coated Sand Gr	rains. ² L		ning, M=Matrix.
Hydric Soil	Indicators:				Indica	tors for Problematic	Hydric Soils ³
Histosol			Polyvalue Below Surfa	ace (S8) (LRR S, T, U		Muck (A9) (LRR O)	riyanio como r
	ipedon (A2)		Thin Dark Suface (S9			Muck (A10) (LRR S)	
Black His			Loamy Gleyed Matrix		·	ced Vertic (F18) (outs	side MLRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gleyed Matrix	(F2)	Piedn	nont Floodplain Soils	(F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Matrix (F3)		Anom	nalous Bright Loamy S	oils (F20)
Organic I	Bodies (A6) (LRR I	P, T, U)	Redox Dark Surface (F6)	(M)	LRA 153B)	
5 cm Mu	cky Mineral (A7) (L	.RR P, T, U)	Depleted Dark Surfac	e (F7)	Red F	Parent Material (TF2)	
Muck Pre	esence (A8) (LRR	U)	Redox Depressions (F	=8)	Very	Shallow Dark Surface	(TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (LRR U)		Other	(Explain in Remarks)	
Depleted	Below Dark Surfa	ce (A11)	Depleted Ochric (F11) (MLRA 151)			
	rk Surface (A12)		Iron Manganese Mass		T) ³ Indic	ators of Hydrophytic v	regetation and
	airie Redox (A16) (wetla	nd hydrology must be	
	ucky Mineral (S1)	(LRR O, S)	Delta Ochric (F17) (M		distur	bed or problematic.	
	leyed Matrix (S4)		Reduced Vertic (F18)				
	edox (S5)		Piedmont Floodplain S			4E2D\	
	Matrix (S6) face (S7) (LRR P,	S, T, U)	Anomalous Bright Loa	arny Sons (F20) (MLRA	A 149A, 153C	, 1530)	
Restrictive I	Layer (if observed	d):					
Type:				Hydric Soil Pi	resent?	Yes X	No
Depth (in	iches):						
Remarks:							

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whitehall Industrial Site	City/County: Concordia Parish Sampling Date: 1/2/2024				
Applicant/Owner: Louisiana Central/Louisiana Economic Development	State: Louisiana Sampling Point: DP3				
Investigator(s): A. Bass					
Landform (hillslope, terrace, etc.) Agricultural field Lo					
Subregion (LRR or MLRA): LRR O Lat: 31° 33.05	59 Long: <u>091° 28.826'</u> Datum: <u>UTM</u>				
Soil Map Unit Name: Commerce silt loam	NWI Classification: Not applicable				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No X (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _X significantly disturbe	ed? Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrology _X_ naturally problematic	c? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sa	impling point locations, transects, important features, etc.				
Lhydrophytic Vagotation Dropont2					
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area				
Hydric Soil Present? Yes No _X					
Wetland Hydrology Present? Yes No _X Remarks:					
Drought conditions existed at the time of the data collection. The site is an agricultural field that has been disturbed by normal farming	practices.				
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Sediment Deposits (B2) Presence of Re	B15) (LRR U) de Odor (C1) spheres on Living Roots (C3) deduced Iron (C4) duction in Tilled Soils (C6) face (C7) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)				
Surface Water Present? Yes No_X_ Depth (inches):					
Water Table Present? Yes NoX Depth (inches): Saturation Present? Yes NoX Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No _X_				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p USGS 7.5-minute topographic map, aerial photographs	revious inspections), if available:				
Remarks:					

SOIL Sampling Point: DP3

Depth (inches)	Matrix	•				r commin	the absence	of indicators	S.)	
(Color (moist)	%	Color (moist)	dox Features %	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/3	100	Color (molot)		1) 0		silt		brown	
6-21	10YR 4/3	75	10YR 4/6	25	D	M	Silty clay		Reddish mot	los
0-21	1011(4/0		10111 4/0				Only day		reduisii iilot	
¹Type: C=Co	oncentration, D=De _l	pletion, RM=F	Reduced Matrix, C	S=Covered o	r Coate	d Sand Gra	ains. ² l	_ocation: PL=	Pore Lining,	M=Matrix.
Hydric Soil I	ndicators:						Indica	tors for Prol	olematic Hyd	dric Soils³:
Histosol (A1)		Polyvalue Be	low Surface	(S8) (LF	RR S, T, U)	1 cm	Muck (A9) (L	RR O)	
Histic Epi	pedon (A2)		Thin Dark Su	face (S9) (Li	RR S, T,	U)	2 cm	Muck (A10) (LRR S)	
Black His	tic (A3)		Loamy Gleye	d Matrix (F1)	(LRR ())	Redu	ced Vertic (F	18) (outside	MLRA 150A,B)
Hydrogen	Sulfide (A4)		Loamy Gleye	d Matrix (F2))		Piedr	nont Floodpla	in Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	trix (F3)			Anon	nalous Bright	Loamy Soils	(F20)
Organic E	Bodies (A6) (LRR P	, T, U)	Redox Dark S	Surface (F6)			(M	LRA 153B)		
5 cm Muc	cky Mineral (A7) (LF	RR P, T, U)	Depleted Dar	k Surface (F	7)		Red I	Parent Materi	al (TF2)	
Muck Pre	sence (A8) (LRR U)	Redox Depre	ssions (F8)			Very	Shallow Dark	Surface (TF	12)
1 cm Muc	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Othe	(Explain in F	Remarks)	
Depleted	Below Dark Surface	e (A11)	Depleted Och	nric (F11) (M	LRA 15	1)				
Thick Dar	k Surface (A12)		Iron Mangane	ese Masses	(F12) (L	RR O, P, 1) 3Indic	ators of Hydr	ophytic vege	tation and
Coast Pra	airie Redox (A16) (N	/ILRA 150A)	Umbric Surfa			U)		wetland hydrology must be present, unless disturbed or problematic.		
	ucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLRA	(151)		distu			
	eyed Matrix (S4)		Reduced Ver	. , .						
Sandy Re			Piedmont Flo							
	Matrix (S6) face (S7) (LRR P, S	s, T, U)	Anomalous B	right Loamy	Soils (F	20) (MLRA	\ 149A, 153C	, 153D)		
Restrictive L	_ayer (if observed)	:								
Type:					Hyd	ric Soil Pr	esent?	Yes		No X
Depth (in	ches):		_							
Remarks:										

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whitehall Industrial Site	City/County: Concordia Parish Sampling Date: 1/2/2024				
Applicant/Owner: Louisiana Central/Louisiana Economic Development	State: Louisiana Sampling Point: DP-4				
Investigator(s): A. Bass	Section, Township, Range: Section 21 T7N R10E				
	cal relief (concave, convex, none): none Slope (%): 0-2				
Subregion (LRR or MLRA): <u>LRR O</u> Lat: <u>31° 33.182</u>	2 Long: 091° 29.493' Datum: UTM				
	NWI Classification: Not applicable				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No X (If no, explain in Remarks.)				
	? Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrology naturally problematic?					
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes NoX_				
Wetland Hydrology Present? Yes No _X					
Drought conditions existed at the time of the data collection The area is an agricultural field that has been significantly disturbed by nor	mal farming practices.				
HYDROLOGY					
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (E	Sparsely Vegetated Concave Surface (BB)				
High Water Table (A2) Saturation (A3) Marl Deposits (B Hydrogen Sulfide	15) (LRR U) Drainage Patterns (B10) e Odor (C1) Moss Trim Lines (B16)				
Water Marks (B1) Oxidized Rhizos	pheres on Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2) Presence of Red Drift Deposits (B3) Recent Iron Red	luced Iron (C4) Crayfish Burrows (C8) uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface	ce (C7) Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR 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):	Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre USGS 7.5-minute topographic map, aerial photographs	evious inspections), if available:				
Remarks:					

SOIL Sampling Point: DP4

	ription: (Describe	to the dept				r confirm	the absence	of indicator	s.)	
Depth (inches)	Color (moist)	%	Color (moist)	dox Featu %	res Type ¹	Loc ²	Texture		Remar	ke
0-2	10YR 4/3	70	Ooloi (moist)		Турс		silty		Some ro	
3-6	10YR 4/3	75	40\/D 0/0				silty		browi	_
7-21	10YR 3/2	75	10YR 3/6	25	RM_	M			Dark red n	nottles
										_
	-									
¹Type: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	d Sand Gr	ains. ²	Location: PL	=Pore Liniı	ng, M=Matrix.
Hydric Soil	ndicators:						Indica	ators for Pro	blematic I	Hydric Soils ³ :
Histosol (A1)		Polyvalue Be	elow Surfa	ce (S8) (Li	RR S, T, U)	1 cm	Muck (A9) (I	RR O)	
Histic Epi	pedon (A2)		Thin Dark Su	ıface (S9)	(LRR S, T	, U)	2 cm	Muck (A10)	(LRR S)	
Black His	tic (A3)		Loamy Gleye	ed Matrix (F1) (LRR ()	Redu	ıced Vertic (F	18) (outsi	de MLRA 150A,B)
	Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedr	mont Floodpl	ain Soils (F	19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anon	nalous Bright	Loamy So	ils (F20)
Organic E	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(M	LRA 153B)		
5 cm Mud	cky Mineral (A7) (LR	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red	Parent Mater	ial (TF2)	
Muck Pre	sence (A8) (LRR U)	Redox Depre		3)		Very	Shallow Darl	ς Surface (TF12)
1 cm Mud	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Othe	r (Explain in l	Remarks)	
Depleted	Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 15	1)				
Thick Da	k Surface (A12)		Iron Mangan	ese Masse	es (F12) (L	RR O, P, 1	Γ) _{3Indic}	cators of Hyd	rophytic ve	getation and
Coast Pra	airie Redox (A16) (N	ILRA 150A				U)				resent, unless
	ucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		distu	rbed or probl	ematic.	
	eyed Matrix (S4)		Reduced Ve	, , ,						
Sandy Re			Piedmont Flo	oodplain S	oils (F19) (MLRA 149	9A)			
	Matrix (S6) face (S7) (LRR P, S	, T, U)	Anomalous E	Bright Loar	ny Soils (F	20) (MLR<i>A</i>	A 149A, 153C	s, 153D)		
Restrictive I	_ayer (if observed)	:								
Type:					Hyd	ric Soil Pr	esent?	Yes	Υ	No
Depth (in	ches):									
Remarks:										

EXHIBIT 3 STREAM DATA FORMS

Project/Site:	Whitehall Industrial Site	Sampling Date:	12/19/2023
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S1	Sampling Point:	S1
Existing Condition:	Dry drainage ditch		

CHARACTERISTICS

Bank Width (ft):	12 feet	Bank Height (ft):	2.5 feet
Water Depth:	0 (dry)	Flow Direction:	Southeast

PHOTOGRAPHS

ID	Direction / Description
Photo 17	North/dry roadside agricultural ditch

Bottom channel width: 3 feet	
Plant Species Ambrosia (ragweed), Rubus (blackberry)	

Project/Site:	Whitehall Industrial Site	Sampling Date:	12/19/2023
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S2/S3	Sampling Point:	S2/S3
Existing Condition:	Drainage ditch		_
		1	

CHARACTERISTICS

Bank Width (ft):	12 feet	Bank Height (ft):	2.5 feet
Water Depth:	0-6 inches	Flow Direction:	east

PHOTOGRAPHS

ID	Direction / Description	
Photo 18	Southwest/agricultural ditch	

ļ	Bottom channel width: 5 feet
	, · · · · · · · · · · · · · · · · · · ·
ļ	,
ļ	·
ļ	
ļ	Plant Species
ļ	Ambrosia (ragweed), Rubus (blackberry)
ļ	,

Project/Site:	Whitehall Industrial Site	Sampling Date:	1/2/2024
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S4	Sampling Point:	S4
Existing Condition:	Drainage ditch		
CHARACTERI	STICS	·	
Bank Width (ft):	18 feet	Bank Height (ft):	5 feet
Water Depth:	1-2 feet	Flow Direction:	Northwest
PHOTOGRAP	HS		
ID	Direction / Description		
Photo 20	Northwest/agricultural ditch		
COMMENTS			
Bottom channel wi	dth: 6 feet		

Plant Species

Ambrosia (ragweed), Rubus (blackberry)

Project/Site:	Whitehall Industrial Site	Sampling Date:	1/2/2024
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S5	Sampling Point:	S5
Existing Condition:	Drainage ditch		

CHARACTERISTICS

Bank Width (ft):	21 feet	Bank Height (ft):	8 feet
Water Depth:	0-2 feet	Flow Direction:	East

PHOTOGRAPHS

Direction / Description
West/agricultural ditch
East/outfall into Vidalia Canal

Bottom channel width: 4 feet			
Plant Species			
Ambrosia (ragweed), Rubus (blackberry)			

Project/Site:	Whitehall Industrial Site	Sampling Date:	1/2/2024
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S6	Sampling Point:	S6
Existing Condition:	Drainage ditch		
		•	
CHARACTERI	STICS		
Bank Width (ft):	15 feet	Bank Height (ft):	15 feet

Bank Width (ft):	15 feet	Bank Height (ft):	4.5 feet
Water Depth:	0 feet	Flow Direction:	Northwest to S5

PHOTOGRAPHS

ID	Direction / Description		
Photo 23	West/agricultural ditch		

Bottom channel width: 4 feet
Plant Species
Ambrosia (ragweed), Rubus (blackberry), Rumex

Project/Site:	Whitehall Industrial Site	Sampling Date:	1/2/2024
Applicant/Owner:	Louisiana Central	Parish:	Concordia
Investigators:	Aaron Bass	State:	Louisiana
Name:	S7	Sampling Point:	S7
Existing Condition:	Roadside drainage ditch		

CHARACTERISTICS

Bank Width (ft):	15 feet	Bank Height (ft):	4.5 feet
Water Depth:	0-6 inches	Flow Direction:	Southeast

PHOTOGRAPHS

ID	Direction / Description
Photo 24	Southeast/Ditch along DA Biglane Road

Bottom channel width: 6 feet
Plant Species Ambrosia (ragweed), Rubus (blackberry), Rumex