

Exhibit CC.

Chennault Airport #8 Site Wetlands Delineation Report



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December 4, 2024

Mr. Elliott Boudreaux
Industrial Development Practice Lead
CSRS, Inc.
8555 United Plaza Blvd.
Baton Rouge, LA 70809
Via e-mail: Elliott.boudreaux@csrsinc.com

Chennault Airport #8 Site Wetlands Delineation Report

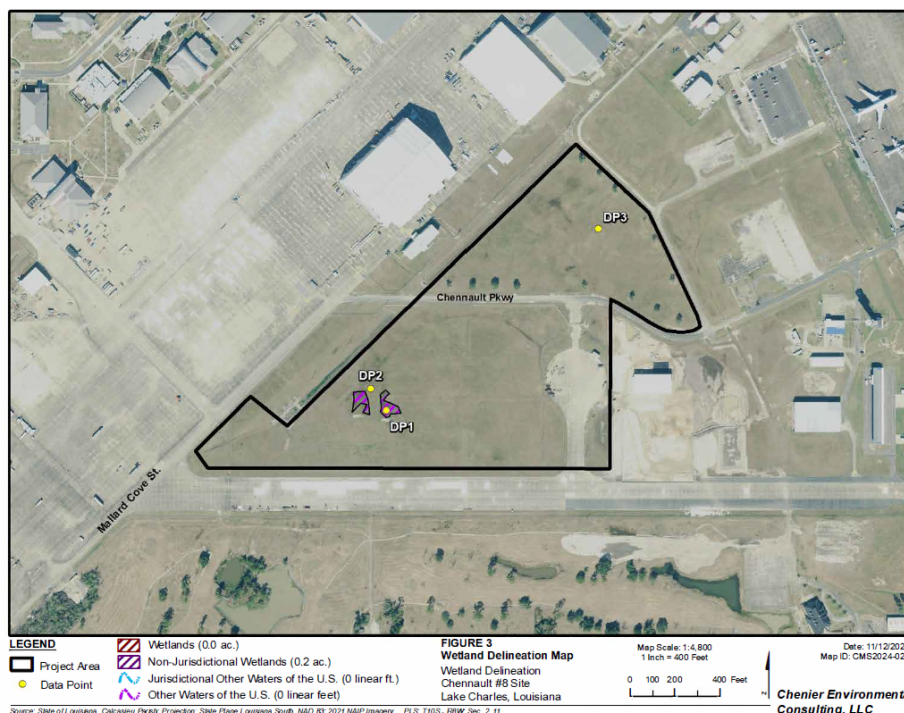
Subject: Wetland Delineation Report – Chennault #8 Site

Dear Mr. Boudreaux,

Chenier Environmental Consultants, LLC (Chenier) is pleased to submit this wetland delineation report for the Chennault #8 site in Lake Charles, Louisiana.

EXECUTIVE SUMMARY

Field investigations conducted on October 8, 2024, evaluated soils, vegetation, and hydrology across the ±35-acre site within Chennault Park. Positive indicators for all three wetland parameters were identified at one location (DP1), confirming the presence of approximately 0.2 acres of isolated, non-jurisdictional depressional wetlands. The remainder of the site is a well-drained, maintained field with no evidence of jurisdictional Waters of the U.S.



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. Chenier Environmental biologists visited the Site on October 8, 2024, and collected field data on three diagnostic parameters- soils, vegetation, and hydrology.

Prior to field reconnaissance, Chenier reviewed the Natural Resources Conservation Service (NRCS) Web Soil Survey (<https://websoilsurvey.nrcs.usda.gov/app/>) (United States Department of Agriculture, Soil Conservation Service), United States Geological Survey (USGS) 7.5-minute topographic maps, and historical aerial photography. Included for your review are: **Attachment A: Figure 1**-Vicinity Map; **Figure 2**-Existing Conditions Map, **Figure 3**-Wetland Delineation Map, **Exhibit 1**-Site Photographs, **Exhibit 2**-Routine Wetland Determination Forms-Atlantic and Gulf Coastal Plain Region, and **Exhibit 3**-Historical Aerial Photographs.

Project Location and Description

The subject property is a ±35 grassy field located within Chennault Park; an industrial park located at Chennault International Airport (Figures 1 through 3). The property is situated on the east side of Mallard Cove Street and is bisected by Chennault Parkway. The property is developed with paved turn pad and Chennault Parkway which bisects the site. The part of the property south of Chennault Parkway was used as a baseball field complex in the 1980s and 1990s.

Soils

The NRCS Web Soil Survey was used to determine mapped soil series (Figure 2). 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 two soil types (NRCS Web Soil Survey 2019). **Table 1** shows the soil map unit name and the hydric status of the soil. A depleted matrix was observed at DP1. No other hydric soil indicators were observed.

Table 1: NRCS Web Soil Survey Data

Map Unit Name	Hydric Status
Mowata-Vidrine complex, 0 to 1% slopes, rarely flooded (Mt)	Hydric
Prairieland silt loam, 0 to 1 percent slopes, rarely flooded (Lt)	Non-hydric

Vegetation

Indicator statuses for the dominant vegetation on the site consist of obligate (OBL), facultative (FAC), facultative upland (FACU), and facultative wetland (FACW) species. A complete list of dominant species is included in the attached Routine Wetland Determination Data Forms (**Exhibit 2**). The wetland criterion for the prevalence of hydrophytic vegetation was met at one of the sample locations (DP1) established by Chenier to characterize the site. The site is routinely mowed and is covered with typical field species including roughstalk bluegrass (*Poa trivialis*), Dallis grass (*Paspalum dilatatum*), common lespedeza (*Kummerowia striata*), Mediterranean false brome (*Brachypodium retusum*), sneezeweed (*Helium amarum*). The slight depressions on the site are covered with alligatorweed (*Alternanthera philoxeroides*), carpetgrass (*Axonopus fissifolius*), and *Juncus sp.*

Hydrology

Most of the site is a well-drained field. The only positive indicator of hydrology was oxidized rhizospheres at DP1 which were in a slight depression. Tractor ruts were present throughout the area. Stormwater flows into a large drainage ditch that borders the northern edge of the site (Figure 3). No waterways were included in the USGS National Hydrography Dataset (NHD) and none were observed on the site (Figure 2).

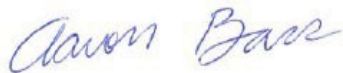
Conclusions

Positive evidence of all three diagnostic characteristics for wetlands was observed at DP1. DP1 was placed in a slight depression visible on the aerial photographs. The depressional wetlands totaled 0.2 acres and appeared to be isolated and non-jurisdictional. The remainder of the site is a well-drained field. No potential Waters of the U.S. were identified on the property.

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



Aaron S. Bass, Ph.D.

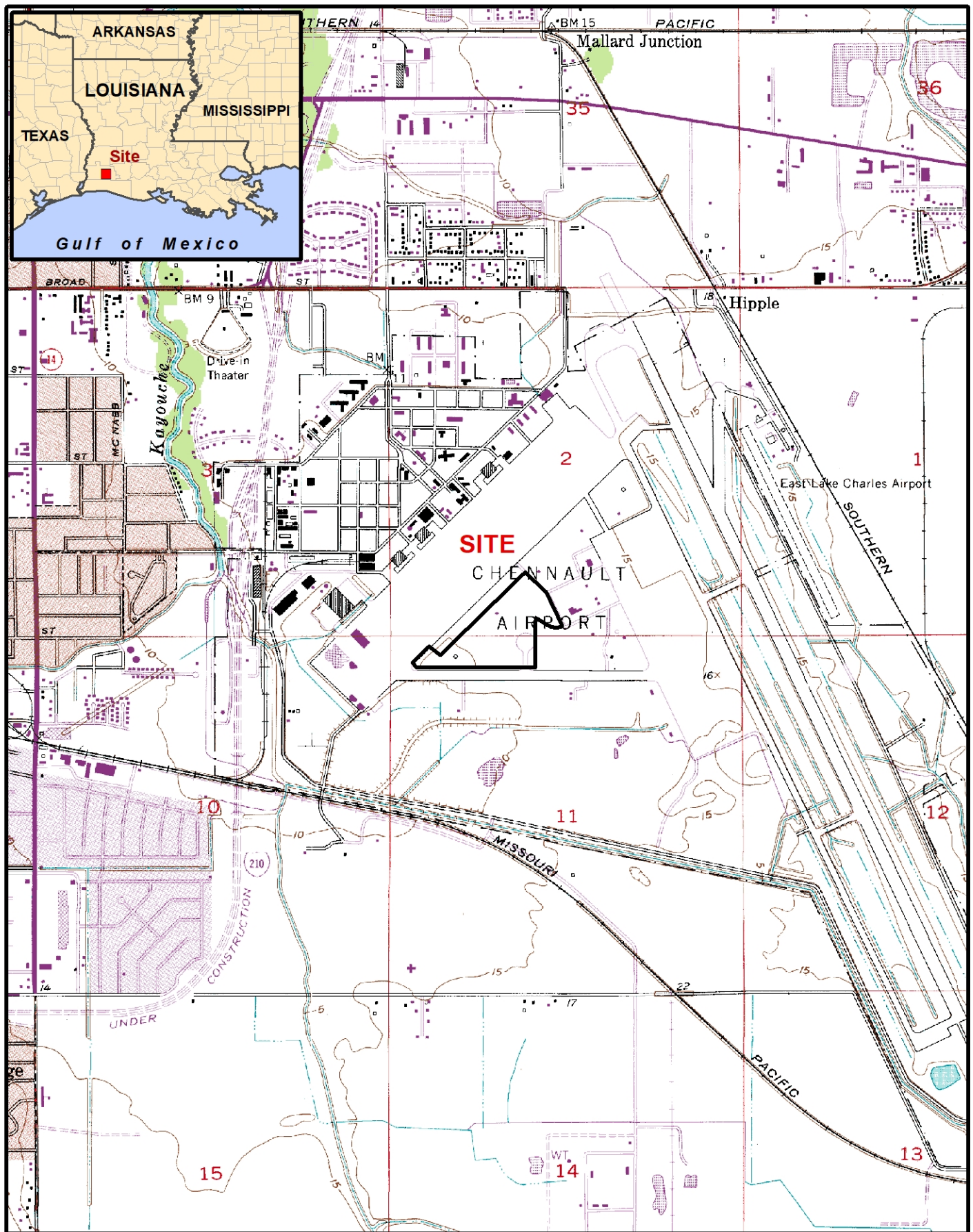
Chenier Environmental Consulting, LLC

4607 Bluebonnet, Blvd. Suite A

Baton Rouge, Louisiana 70809

ATTACHMENT A

FIGURES



Map Scale: 1:24,000
1 Inch = 2,000 Feet

0 500 1,000 2,000 Feet



FIGURE 1
Vicinity Map

Wetland Delineation
Chennault #8 Site
Lake Charles, Louisiana

Date: 11/12/2024
Map ID: CMS2024-022

**Chenier Environmental
Consulting, LLC**



- LEGEND**
- Project Area
 - ~> USGS NHD Stream
 - NRCS Soils (SSURGO)

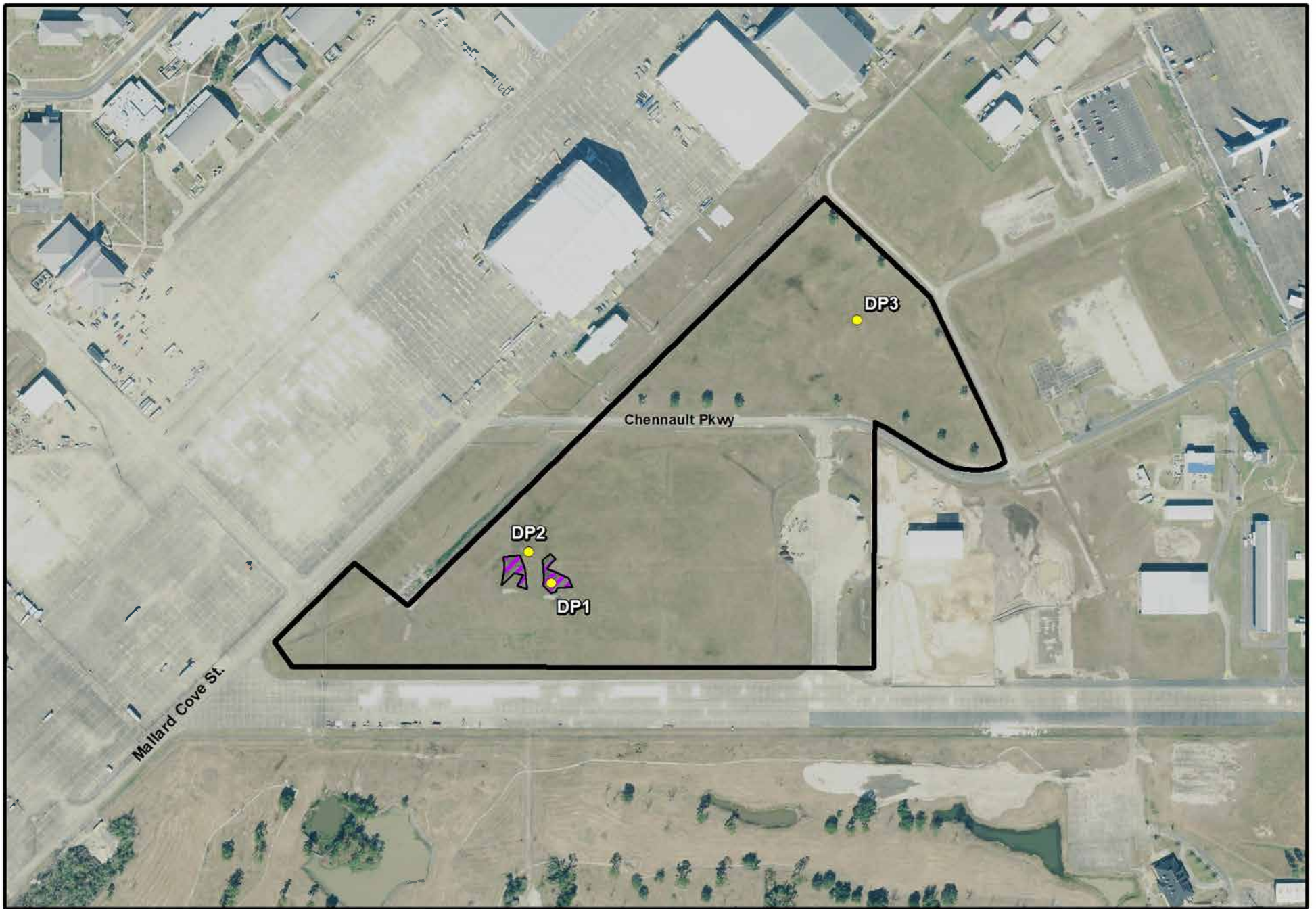
FIGURE 2
Existing Conditions Map
 Wetland Delineation
 Chennault #8 Site
 Lake Charles, Louisiana

Map Scale: 1:24,000
 1 Inch = 2,000 Feet

0 500 1,000 2,000 Feet

Date: 11/12/2024
 Map ID: CMS2024-023

**Chenier Environmental
 Consulting, LLC**



LEGEND	
	Project Area
	Data Point
	Wetlands (0.0 ac.)
	Non-Jurisdictional Wetlands (0.2 ac.)
	Jurisdictional Other Waters of the U.S. (0 linear ft.)
	Other Waters of the U.S. (0 linear feet)

FIGURE 3
Wetland Delineation Map
 Wetland Delineation
 Chennault #8 Site
 Lake Charles, Louisiana

Map Scale: 1:4,800
 1 Inch = 400 Feet
 0 100 200 400 Feet

Date: 11/12/2024
 Map ID: CMS2024-024

**Chenier Environmental
 Consulting, LLC**

EXHIBIT 1

SITE PHOTOGRAPHS



1. DP1



2. DP1 soil



3. DP1 soil



4. DP2



5. DP3



6. DP3 soil



7. Photo location point (Photos 8-10)



8. Ephemeral drainage swale



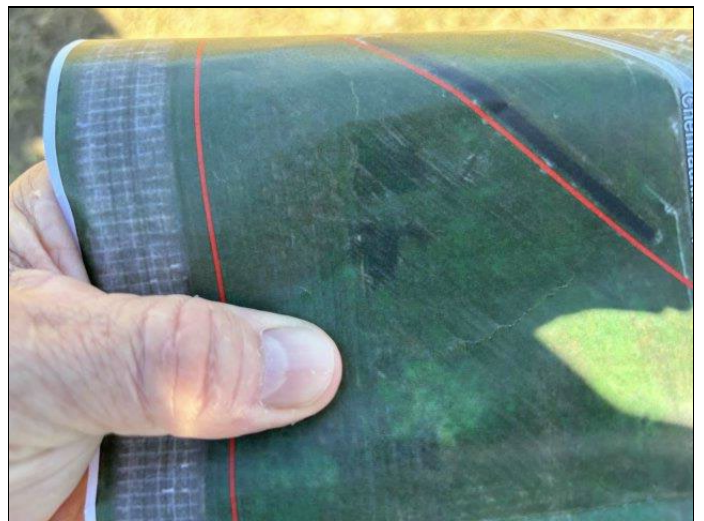
9. Ephemeral drainage swale



10. Ephemeral drainage swale



11. Drainage ditch north of the site



12. Photo location map (Photo 13)



13. Slight depression on site

14.

EXHIBIT 2

ROUTINE WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Chennault #8 Site City/County: Calcasieu Sampling Date: 10/8/2024
Applicant/Owner: Southwest Louisiana Economic Development Alliance/City of Lake Charles State: Louisiana Sampling Point: DP1
Investigator(s): A. Bass Section, Township, Range: S11 T10S R8W
Landform (hillslope, terrace, etc.): Coastal Plain Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): Gulf Coastal Prairies Lat: 30.212575° Long: -93.159298° Datum: UTM
Soil Map Unit Name: Prairie land silt loam (Lt), 0 to 1% slopes, rarely flooded NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: DP1 is in a slight depression in a mowed field.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Aquatic Fauna (B13)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)	
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)	
☐ Water Marks (B1)	☒ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)	
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)	
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)	
		☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks:			

Tree Stratum (Plot size: <u>ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ FACW species _____ FAC species _____ FACU species _____ UPL species _____ Column Totals: _____ (B) Prevalence Index = B/A = _____	
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: ___ 1 – Rapid Test for Hydrophytic Vegetation <u>X</u> 2 – Dominance Test is > 50% ___ 3 – Prevalence Test is ≤ 3.0 ¹ ___ Problematic Hydrophytic Vegetation ¹ (Explain)	
50 % of total cover: _____ 20 % of total cover: _____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Sapling/Shrub Stratum (Plot size: <u>ft radius</u>)				Definitions of Vegetation Strata:	
1. _____	_____	_____	_____	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
2. _____	_____	_____	_____	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
3. _____	_____	_____	_____	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
4. _____	_____	_____	_____	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
5. _____	_____	_____	_____	Woody vine – All woody vines, regardless of height.	
6. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____	50 % of total cover: <u>50</u> 20 % of total cover: <u>20</u> = Total Cover	
Herb Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
1. <u>Alternanthera philoxeroides</u> (alligatorweed)	<u>30</u>	<u>Y</u>	<u>OBL</u>		
2. <u>Axonopus fissifolius</u> (carpetgrass)	<u>30</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Juncus sp.</u> (rush)	<u>20</u>	<u>N</u>	<u>OBL</u>		
4. <u>Poa trivialis</u> (roughstalk bluegrass)	<u>20</u>	<u>N</u>	<u>NL</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
50 % of total cover: _____ 20 % of total cover: _____ = Total Cover					
Woody Vine Stratum (Plot size: <u>ft radius</u> s)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
50 % of total cover: _____ 20 % of total cover: <u>0</u> = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.) Photos: 1-3					

SOIL

Sampling Point: DP1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/2	100						
6-18	10YR 4/1	100						Oxidized root channels present

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) (LRR P, T, U)
- ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
- ☐ Muck Presence (A8) (LRR U)
- ☐ 1 cm Muck (A9) (LRR P, T)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) (MLRA 150A)
- ☐ Sandy Mucky Mineral (S1) (LRR O, S)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (LRR P, S, T, U)

- ☐ Polyvalue Below Surface (S8) (LRR S, T, U)
- ☐ Thin Dark Surface (S9) (LRR S, T, U)
- ☐ Loamy Gleyed Matrix (F1) (LRR O)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Marl (F10) (LRR U)
- ☐ Depleted Ochric (F11) (MLRA 151)
- ☐ Iron Manganese Masses (F12) (LRR O, P, T)
- ☐ Umbric Surface (F13) (LRR P, T, U)
- ☐ Delta Ochric (F17) (MLRA 151)
- ☐ Reduced Vertic (F18) (MLRA 150A, 150B)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR O)
- ☐ 2 cm Muck (A10) (LRR S)
- ☐ Reduced Vertic (F18) (outside MLRA 150A,B)
- ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes ☒ No ☐

Remarks:



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Chennault #8 Site City/County: Calcasieu Sampling Date: 10/8/2024
Applicant/Owner: Southwest Louisiana Economic Development Alliance/City of Lake Charles State: Louisiana Sampling Point: DP2
Investigator(s): A. Bass Section, Township, Range: S11 T10S R8W
Landform (hillslope, terrace, etc.): Coastal Plain Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): Gulf Coastal Prairies Lat: 30.212975° Long: -93.159277° Datum: UTM
Soil Map Unit Name: Prairie land silt loam (Lt), 0 to 1% slopes, rarely flooded NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: DP2 is in a well-drained area in a mowed field.	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
☐ Surface Water (A1)	☐ Aquatic Fauna (B13)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)
		☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Surface Water Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	
Water Table Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	
Saturation Present? Yes <u> </u> No <u>X</u> (includes capillary fringe)	Depth (inches): <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks:		

Tree Stratum (Plot size: <u>ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
0 = Total Cover					
50 % of total cover: _____		20 % of total cover: _____			
Sapling/Shrub Stratum (Plot size: <u>ft radius</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ FACW species _____ FAC species _____ FACU species _____ UPL species _____ Column Totals: _____ (B) Prevalence Index = B/A = _____	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
0 = Total Cover					
50 % of total cover _____		20 % of total cover: _____			
Herb Stratum (Plot size: <u>20-ft radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>X</u> 2 – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Paspalum dilatatum</u> (Dallis grass)	95	Y	FAC		
2. <u>Kummerowia striata</u> (Common lespedeza)	5	N	FACU		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
100 = Total Cover					
50 % of total cover: <u>50</u>		20 % of total cover: <u>20</u>			
Woody Vine Stratum (Plot size: <u>ft radius</u> s)				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					
50 % of total cover: _____		20 % of total cover: <u>0.</u>			
Remarks: (Include photo numbers here or on a separate sheet.) Photos: #4					

Hydrophytic Vegetation Present? Yes _____ No X

SOIL

Sampling Point: DP2

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/2	100						
6-18	10YR 4/1	100						Oxidized root channels present

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Organic Bodies (A6) (LRR P, T, U)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
☐ Muck Presence (A8) (LRR U)
☐ 1 cm Muck (A9) (LRR P, T)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Coast Prairie Redox (A16) (MLRA 150A)
☐ Sandy Mucky Mineral (S1) (LRR O, S)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR P, S, T, U)

☐ Polyvalue Below Surface (S8) (LRR S, T, U)
☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Loamy Gleyed Matrix (F1) (LRR O)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (LRR U)
☐ Depleted Ochric (F11) (MLRA 151)
☐ Iron Manganese Masses (F12) (LRR O, P, T)
☐ Umbric Surface (F13) (LRR P, T, U)
☐ Delta Ochric (F17) (MLRA 151)
☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Reduced Vertic (F18) (outside MLRA 150A,B)
☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
☐ Anomalous Bright Loamy Soils (F20)
 (MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes ☒ No ☐**Remarks:**

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Chennault #8 Site City/County: Calcasieu Sampling Date: 10/8/2024
Applicant/Owner: Southwest Louisiana Economic Development Alliance/City of Lake Charles State: Louisiana Sampling Point: DP3
Investigator(s): A. Bass Section, Township, Range: S11 T10S R8W
Landform (hillslope, terrace, etc.): Coastal Plain Local relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): Gulf Coastal Prairies Lat: 30.214510° Long: -93.156051° Datum: UTM
Soil Map Unit Name: Mowata-Vidrine complex, 0 to 1% slopes, rarely flooded NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: DP3	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
☐ Surface Water (A1)	☐ Aquatic Fauna (B13)	☐ Surface Soil Cracks (B6)
☐ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)
☐ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)
☐ Water Marks (B1)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Moss Trim Lines (B16)
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)
☐ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)
☐ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)
		☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Water Table Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	
Saturation Present? Yes <u> </u> No <u>X</u> (includes capillary fringe)	Depth (inches): <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks:		

Tree Stratum (Plot size: <u>ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
0 = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ FACW species _____ FAC species _____ FACU species _____ UPL species _____ Column Totals: _____ (B) Prevalence Index = B/A = _____	
50 % of total cover: _____		20 % of total cover: _____			
Sapling/Shrub Stratum (Plot size: <u>ft radius</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
0 = Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>X</u> 2 – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
50 % of total cover _____		20 % of total cover: _____			
Herb Stratum (Plot size: <u>20 ft radius</u>)					
1. <u>Brachypodium retusum</u> (Mediterranean false brome)	<u>95</u>	<u>Y</u>	<u>NL</u>		
2. <u>Helium amarum</u> (sneezeweed)	<u>5</u>	<u>N</u>	<u>FACU</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
100 = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.	
50 % of total cover: <u>50</u>		20 % of total cover: <u>20</u>			
Woody Vine Stratum (Plot size: <u>ft radius</u> s)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
50 % of total cover: _____		20 % of total cover: <u>0</u> .			
Remarks: (Include photo numbers here or on a separate sheet.) Photos: 5 and 6					

SOIL

Sampling Point: DP3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 4/3	100						White silt
6-18	10YR 5/3	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Organic Bodies (A6) (LRR P, T, U)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
☐ Muck Presence (A8) (LRR U)
☐ 1 cm Muck (A9) (LRR P, T)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Coast Prairie Redox (A16) (MLRA 150A)
☐ Sandy Mucky Mineral (S1) (LRR O, S)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR P, S, T, U)

☐ Polyvalue Below Surface (S8) (LRR S, T, U)
☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Loamy Gleyed Matrix (F1) (LRR O)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (LRR U)
☐ Depleted Ochric (F11) (MLRA 151)
☐ Iron Manganese Masses (F12) (LRR O, P, T)
☐ Umbric Surface (F13) (LRR P, T, U)
☐ Delta Ochric (F17) (MLRA 151)
☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Reduced Vertic (F18) (outside MLRA 150A,B)
☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
☐ Anomalous Bright Loamy Soils (F20)
 (MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes _____ No ☒ X**Remarks:**

EXHIBIT 3

HISTORICAL AERIAL PHOTOGRAPHS



INQUIRY #: 7732309.8

YEAR: 1990

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 7732309.8

YEAR: 1985

— = 500'



