APPENDIX I

ADDITIONAL EXPERT ANALYSIS - WETLAND DELINEATION (CK ASSOCIATES)



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October 31, 2022

Liskow & Lewis A Professional Law Corporation 822 Harding Street P.O. Box 52008 Lafayette, Louisiana 70503 ATTN: Mr. John Troutman

Re: August J. Levert, Jr., Family, LLC, et al vs. BP America Production Company 18th JDC, Iberville Parish, LA Docket No. 78953 Div. "A" C-K Associates' Project Number

Dear Mr. Troutman:

I respectfully submit the enclosed report regarding approximately 57 acres of property located in the Iberville Parish, LA, specifically the North Half (N/2) of Fractional Section 15, Township Ten South (T10S), Range 11 East (R11E), Parcel Number 0800988025 in the Tax Roll Records in the Assessor's Office in Iberville Parish. This report provides a delineation of potential wetland and aquatic resources that may be regulated by the U.S. Army Corps of Engineers under Section 404 of the Clean Water Act. In addition, I provide my opinion as to the character of areas as upland or type of wetland as defined in Louisiana Title 43, Part XIX, Statewide Order 29-B, Chapter 3, §301.

If there are any questions or you require any additional information, do not hesitate to contact me at your convenience.

Sincerely,

Wade Bryant

Wade L. Bryant Jr. Senior Environmental Scientist CK Associates

1.0 INTRODUCTION

C-K Associates, LLC (CK) was retained by the law firm Liskow & Lewis, on behalf of BP America Production Company to delineate aquatic resources that may be regulated by the U.S. Army Corps of Engineers under section 404 of the Clean Water Act (CWA), on approximately 57 acres in Iberville Parish LA (Figure 1). In addition, I was asked to provide an opinion as to the category of wetland areas as "Submerged", "Elevated", or neither as defined in Title 43 NATURAL RESOURCES Part XIX. Office of Conservation—General Operations Subpart 1. Statewide Order No. 29-B Chapter 3. Pollution Control—Onsite Storage, Treatment and Disposal of Exploration and Production Waste (E&P Waste) Generated from the Drilling and Production of Oil and Gas Wells (Oilfield Pit Regulations)

The property is located within the Grand River Oil and Gas Field and is the subject of the lawsuit captioned August *J. Levert, Jr., Family, LLC et al., v. BP America Production Company*, 18th Judicial District Court for the Parish of Iberville, Docket No. 078953, Division "A". The property is situated in the North Half (N/2) of Fractional Section 15, Township Ten South (T10S), Range 11 East (R11E), Parcel Number 0800988025 in the Tax Roll Records in the Assessor's Office in Iberville Parish. The property is approximately 2.6 miles north of the USGS 07381450 Lower Grand River at Bayou Sorrel, LA Gage (Figure 1). The coordinates of the approximate center of the property are 30.19598N and 91.33973W.

2.0 SITE DESCRIPTION

The property lies within the Atchafalaya River Flood Basin. The Atchafalaya River carries about 30% of the combined flow of the Mississippi and Red Rivers and the basin of the Atchafalaya contains the largest wetlands in North America. The basin is constrained to the east and west by levees designed to contain the spring flood. In addition to the east and west levees, hydrologic manipulations for transportation, flood control, logging, and mineral extraction have altered flow patterns.

The site is in Hydrologic Unit Code 08070300 Lower Grand which encompasses approximately 790 square miles within a levee system and upstream from the Bayou Sorrel Lock. This lock provides navigation via the Gulf Intracoastal Waterway (GIWW) from Morgan City to Port Allen and flood protection. The operation of the lock to allow barge traffic to pass influences the water level in Bayou Sorrel and often results in reverse flows when closed.

Prior to conducting the field investigation, CK reviewed aerial photography (example in Figure 2), elevation data [Light Detection and Ranging (LIDAR) data and Digital Elevation Models (DEM)], soil data and National Wetland Inventory maps.

Based on LIDAR data, excluding the man-made levees, the topography the property is relatively flat elevation ranging from +2.5 to +5 feet with levee deposits piles +14ft NAVD (Figures 3, 4). An example elevation profile from top of levee to cypress dominated swamp is provided in Figure 4. A plot of acres by elevation range bin for the 5mx5m cell size raster DEM data is shown in Figure

5. Values less than 1ft are open water canals. Values between 1ft and 2.5ft are along the edge of the canals on the toe of the levees. Elevations 3ft - 4ft appear to be natural elevations (no levee deposit influence). Elevations 4ft - 14.5ft are associated with levee deposits along the canals.

USDA-Natural Resources Conservation Service data show the property as 100 percent Dowling Association – Frequently Flooded (Figure 6) except for open water areas. As per the Official Series Description: "series consists of very deep, very poorly drained, very slowly permeable soils that formed in clayey alluvium. These soils are in low, ponded oxbow depressions and backswamp areas of the lower Mississippi River alluvial plain. Slopes are less than 1 percent." The 0 horizon, where present, has hue of 10YR, value of 2 to 4, and chroma of 1; or value of 2 or 3 and chroma of 2; or it is neutral with value of 4. Thickness is less than 8 inches. Texture is muck or mucky peat.

National Wetlands Inventory data for the site were obtained using the U.S. Fish and Wildlife Service (USFWS) Wetland Mapper interface (Figure 7). For the NWI, wetlands at the site were photo interpreted using 1:65,000 scale, color infrared imagery from 11/21/1988. Three wetland types (codes) were identified on the site: PFO1C, PFO1/2C and PEM1F. These are further defined as follows:

PFO1C - Palustrine forested broad-leaved deciduous trees. Seasonally flooded with surface water present for extended periods especially early during the growing season but can be absent by the end of the growing season in most years.

PFO2/1C - Palustrine forested area is dominated more by needle-leaved deciduous trees than by broad-leaved deciduous. Seasonally flooded with surface water present for extended periods especially early during the growing season but can be absent by the end of the growing season in most years.

PEM1F are dominated by emergent plants. The water regime is Semi permanently Flooded, surface water persists throughout the growing season in most years.

The USFWS's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis. It is important to note, wetlands may have changed since the date of the imagery.

3.0 WETLAND DELINEATION

CK visited the project area on August 8 and 9, 2022. Five data points (DP) were collected during the September 2022 site visit (Figure 9). See Appendix A for all wetland determination data forms and example photographs. The wetland delineation followed routine onsite field procedures as outlined by the USACE (1987 and 2010). Soil references include the NRCS (2022, 2022a, and 2022b), and USDA (2010). Plant nomenclature and wetland indicator status is taken from The

National Wetland Plant List (USACE 2020). Plant nomenclature not listed in The National Wetland Plant List is taken from NRCS PLANTS Database (NRCS 2016).

Wetland hydrology was based on the observation of wetland hydrology indicators, as described by USACE (2010). Wetland hydrology criteria were met if at least one primary indicator was observed or a minimum of two secondary indicators were observed.

Dominant vegetative species present within each data point were documented for all vegetation strata, including the tree stratum, sapling/shrub stratum, herbaceous stratum, and woody vines stratum. Percent absolute cover for each species was determined by visual estimation. Plant communities met hydrophytic vegetation criteria if all dominant species across all strata are classified as obligate-wetland and/or facultative-wetland, or if greater than 50% of all dominant species from all strata were classified as obligate-wetland, facultative-wetland, and/or facultative species, or if the prevalence index is 3.0 or less (USACE 2010). Dominant species were selected using the "50/20 rule" described by the USACE (2010).

Soil profiles were obtained with either a split spoon sampler or by excavating an approximate 24 inch soil pit with a shovel. Soil color was recorded by matching soil samples throughout the profile to color chips contained in a Munsell soil color chart. The presence or absence of hydric soils was determined utilizing the methods and procedures outlined by the USACE (2010).

Three mandatory technical criteria for determining the presence of a wetland are, with exceptions, 1) prevalence of hydrophytic vegetation, 2) wetland hydrology, and 3) hydric soils (USACE 1987). Hydrophytic vegetation is defined as "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" (USACE 1987). "Prevalent vegetation is characterized by the dominant species comprising the plant community or communities. Dominant plant species are those that contribute more to the character of a plant community than other species present, as estimated or measured in terms of some ecological parameter or parameters" (USACE 1987). The term wetland hydrology describes "the sum total of wetness characteristics in areas that are inundated or have saturated soils for a sufficient duration to support hydrophytic vegetation" (USACE 1987). A hydric soil is defined as "a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (USDA 2017).

Data points and locations of additional observations (ex. edge of water, transitions between upland and wetland) were mapped with a Trimble[®] d[®] 5 Differential Global Positioning System (DGPS) utilizing real-time corrections. Photographs were taken with a GPS enabled camera, but locations are not as accurate as with a Trimble[®] GPS. Data was imported into ESRI[®] ArcMap Version 10.8. Wetland areas were mapped using a combination of field observations, LIDAR elevation data and aerial imagery.

The USACE under the authority of the Clean Water Act, Section 404 and the Rivers and Harbor Act, Section 10 has the responsibility to make the final determination of the location and extent

of jurisdictional wetlands and navigable waters within the project area, respectively. This report represents my opinion and should be considered preliminary until final concurrence is obtained from the New Orleans District Army Corps of Engineers office.

In my opinion, based on USACE criteria the site has 13.25 acres of open water, 4.52 acres nonwetlands, and 39.13 acres of wetlands (Figure 9).

4.0 UPLAND, SUBMERGED OR ELEVATED AS PER 29-B

I was asked to provide an opinion as to the character of the site as upland or wetland type as defined in S Title 43, Part XIX, Statewide Order 29-B, Chapter 3, §301. There are three relevant definitions:

(1) Submerged Wetland Area- a wetland area which is normally inundated with water and where only levee material is available for mixing with waste fluids during closure of a pit.

(2) Elevated Wetland Area- a wetland area which is not normally inundated with water and where land mass and levee material are available for mixing with waste fluids during closure of a pit.

(3) Upland Area- an area which is not identified as a wetland and includes farmland, pastureland, recreational land, and residential land.

I combined my field observations (vegetation, hydrology, soils, and elevation transects) with a review of water level data, LIDAR elevations, and historical imagery to form my opinion.

The influence of the man-made levee on the character of the wetlands at the site was obvious. There is an unmistakable transition along the gradient of elevation (and therefore the frequency, duration, and depth of flooding) due to the man-made levee (Figures 10 and 11). Along the gradient from highest elevation to lowest elevation, there is a transition from non-wetland (green Figures 10 and 11), through wetlands (yellow) with hydric soils but lacking mucky O horizon and dominance of facultative wetland plants to wetlands (red), soils with O horizon (muck), and obligate wetland plants.

I evaluated water levels collected since November 2001 at USGS 07381450 Lower Grand River at Bayou Sorrel, LA Gage (Figure 1) within the context of elevations at the site as per LIDAR data. In addition, I reviewed aerial imagery collected since 2001 to cross reference water levels to inundation at the site. I combined this information with observations from the August 8 and 9, 2022 site visits to form my opinions.

In forming my opinions and for the purposes of illustrating conditions at the site, I utilized a classification of bottomland hardwood forest into zones, according to flooding conditions, that is common knowledge to wetland scientists (Figure 10) and contained in textbooks on the subject. I followed the definitions of water regimes from continuously to intermittently flooded as shown

in Figure 12. As "normally inundated" is not defined in 29-B, I considered the frequency of flooding > 50 percent (Zones I - 4) to be "normally inundated"

The site has all the zones depicted in Figure 10. Photographs within each zone are provided in Figures 13 – 28 and follow the gradient from Zone II through Zone IV / uplands.

I considered Zones II-IV to meet the definition of "submerged". These wetlands areas have mucky / high organics in the O horizon and have a higher prevalence of obligate wetland plants. At the Levert site, I determined Zone II-Zone IV generally have elevations between 1 and 7 ft NAVD.

The wetland areas within the site that lack mucky O horizons and lack obligate wetland plants are along a "bathtub ring" transition zone (Figures 10 and 11 - yellow) along the slope of the levee. At the Levert site, these areas have elevation between 8 and 9 ft NAVD. These areas meet the USACE definition of wetland but in my opinion are not "normally" inundated.

In my opinion, there are 37.07 acres of wetland that meet the definition of "submerged". These areas are normally inundated (normal events – most years) and there is only levee material adjacent to these areas (from man-made canals) that could be used for mixing. This is based on my interpretation that long range transport via barge or helicopter of land mass should not be considered as available within context of 29-B.

In my opinion, there are 2.06 acres of wetland that do not meet either the definition of "submerged" or "elevated". These areas are not normally inundated (takes an abnormal event) but there is no "land mass" available for mixing with waste fluids during closure of the pit.

In my opinion, there are 4.52 acres of non-wetland associated with man-made levees.

If wetlands with mucky soils, dominance of obligate wetland plant species, and frequency of flooding > 50 out of 100 years are not "normally inundated" then there are NO forested wetlands in Louisiana that would meet the definition.

6.0 LITERATURE CITED

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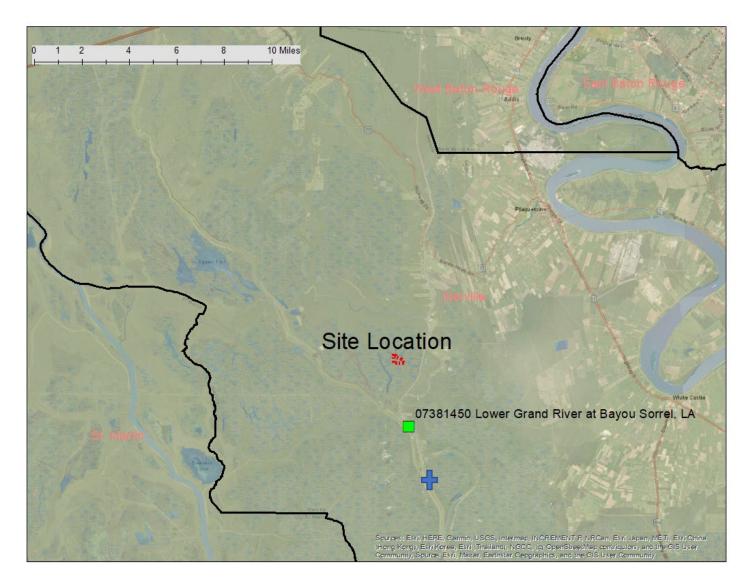


Figure 1. Site Location in Iberville Parish. The site is 2.6 mile north of the USGS Lower Grand River at Bayou Sorrel gaging station.

Bayou Sorrel Locks shown 井

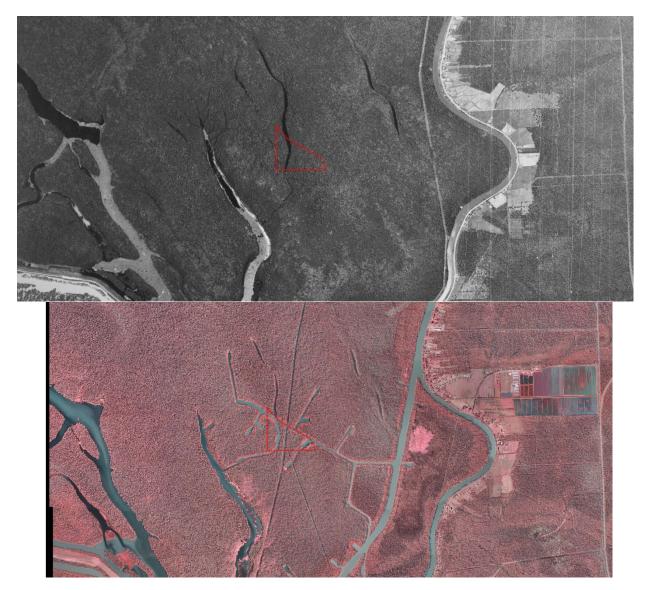


Figure 2. Site 1952 and 2010.

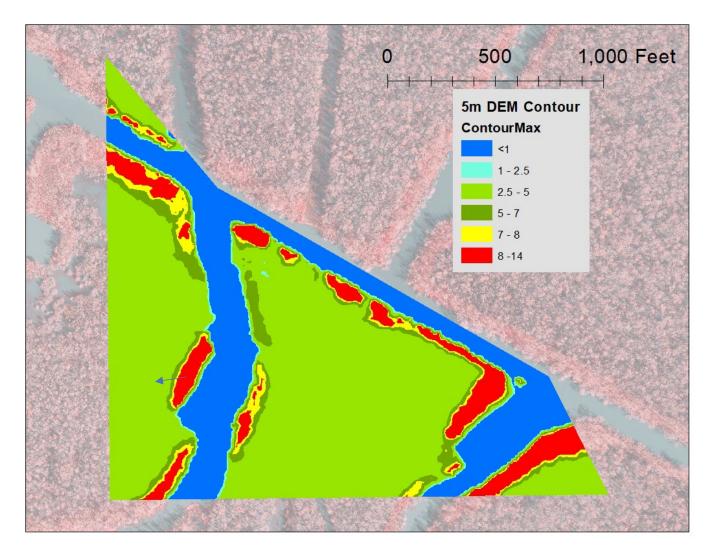


Figure 3. Topographic Contours based on 5m x 5m LIDAR data. Note the steep slope adjacent to berms. There was a noticeable change in soils and vegetation across the gradients from interior areas to the top of the berms.

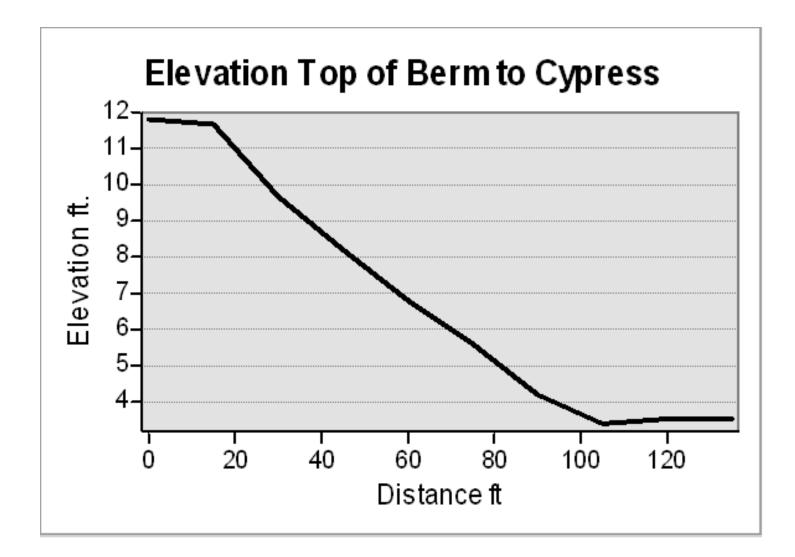


Figure 4. Example elevation profile from top of berm (upland @11.8 ft) to submerged wetland (@ < 4ft - cypress / tupelo)., approximately 8% slope (8 ft / 100 ft). Based on LIDAR digital elevations 5m x 5m resolution. Location of profile shown with arrow in Figure 2.

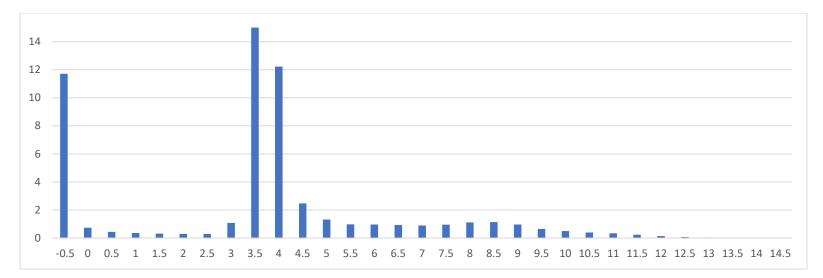


Figure 5. Distribution of elevation values for 5mx5m LIDAR raster data clipped to the site boundary. Acres (y axis) by upper range of elevation (NAVD ft.) Values less than 1 are open water. Values between 1 and 2.5 are along the edge of the canals. Elevations 3-5 appear to be natural elevations (no levee deposit influence). Elevations 5 - 14.5 are due to levee deposits along the canals.



Figure 6. Soils classifications



Figure 7. Wetland and Aquatic types according to U.S. Fish and Wildlife National Wetlands Inventory.

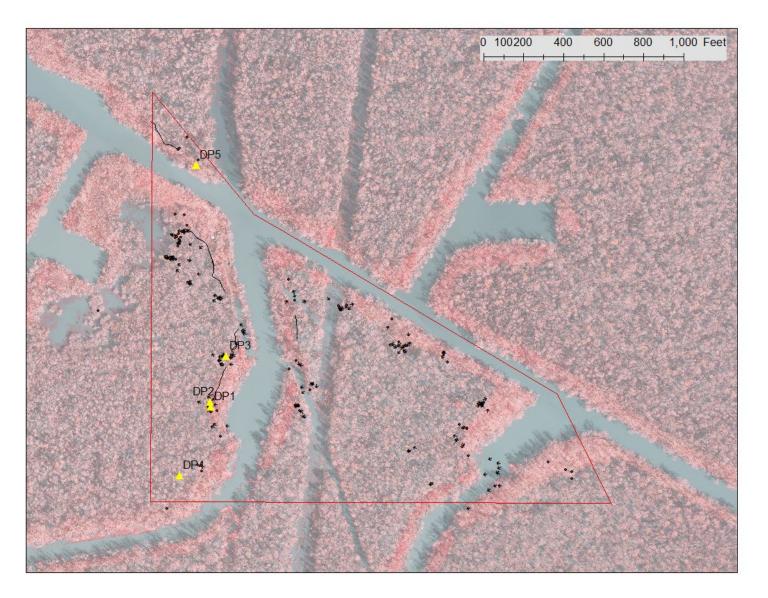


Figure 8. Location of data points and other observations. Image background is 2010 False color infrared. Note the difference between vegetation along the levee and interior wetlands.

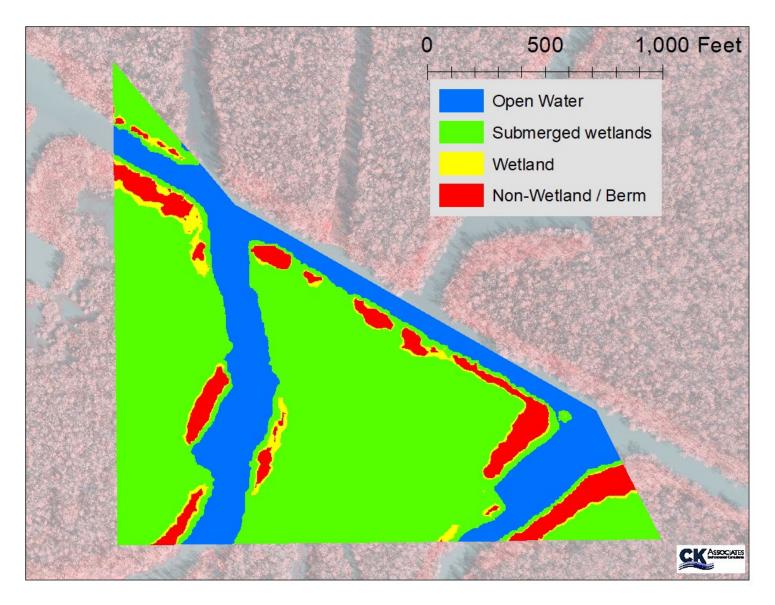


Figure 9. Wetland delineation.

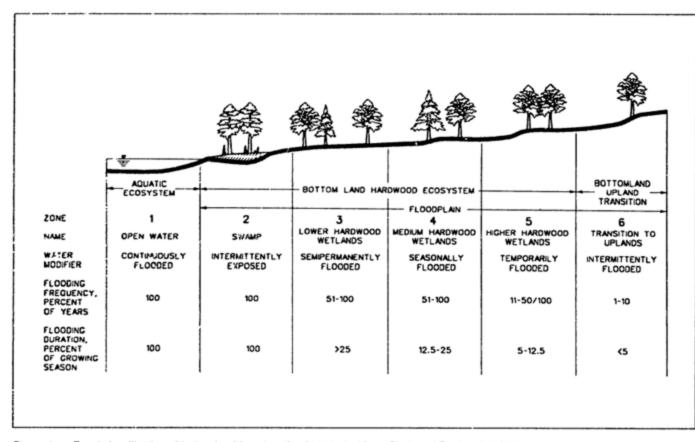


Figure 10. View perpendicular to the elevation gradient from upland (left and green) non-hydric soils, wetland hydrology indicators lacking, through transition wetland (yellow) with hydric soils but lacking O horizon (no muck) and Facultative wetland plants (*Quercus texana, Acer negundo*) to submerged wetland (red), soils with O horizon (muck), and Obligate wetland plants (*Phanopyrum gymnocarpon, Nyssa Aquatica, and Taxodium distichum*)



Figure 11. View perpendicular to elevation gradient in area with steeper gradient compared to Figure 8. Upland berm (right and green) nonhydric soils, wetland hydrology indicators lacking, through transition wetland (yellow) with hydric soils but lacking O horizon (no muck) and Facultative wetland plants (*Quercus texana, Acer negundo*) to submerged wetland (red), soils with O horizon (muck), and Obligate wetland plants (*Phanopyrum gymnocarpon,* and *Taxodium distichum*)

Chapter 1 Introduction



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Figure 1 Zonal classification of bottomland forest wetlands (adapted from Clark and Benforado 1981)

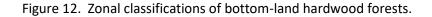




Figure 13. Zone II Swamp



Figure 14. Zone II



Figure 15. Zone II soil muck layer.



Figure 16. Zone II - Zone III transition. Elevation higher than Zone II - *Phanopyrum gymnocarpon* is indicator.



Figure 17. Zone II muck layer evident



Figure 18. Zone II – Zone III transition



Figure 19. Zone II – Zone III transition.



Figure 20. Zone III Note the root flare is buried evidence of sediment deposition since tree sprouted.



Figure 21. Zone III soil – mucky clay surface layer



Figure 22. Zone IV



Figure 23. Zone IV soil mucky clay surface layer.



Figure 24. Zone V



Figure 25. Zone 5 soil – low organic surface layer but wetland indicators at depth.



Figure 26. Zone 5 to upland transition



Figure 27. Zone V to upland transition



Figure 28. Upland soil

Project/Site:	Environmental L	itigation	Pa	rish:	lbervill	e	Sampling Date:	August 8, 2022
Applicant/Owner:		BP America Production			State:	Louisiana	Data Point:	DP1
		and Taylor Tur		Section, Town	ship, Range:	Se	ction 15, Township 10) South, Range 11 East
Landform (hillslope, terrace, etc.):		depression		Local relief (o	oncave, convex,	none):	concave Slo	ope (%): 0-1
Subregion (LRR or MLRA):	LI	RR O/MLRA 131A		Lat:	30.19573	Long:	-91.34174	Datum: NAD83
Soil Map Unit Name:		DO: Dowling associati	ion, frequently f	flooded		NWI Cla	assification:	PFO1/2C
Are climatic / hydrologic conditions on	the site typical for this	time of year?	()	Yes / No)	Yes	(if no, exp	ain in Remarks.)	
Are Vegetation No ,	Soil <u>No</u> ,or H	Hydrology No	significantly	disturbed?	Are "Norma	l Circumstances"	present?	Yes X No
¥		Hydrology No	naturally pro				in any answers in Re	marks.)
SUMMARY OF FINDINGS -	Attach site ma	p showing samp	ling point l	ocations,	transects, ir	nportant fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	X No		Is the Sam				
Wetland Hydrology Present?	Yes	X No		within a W	etland?	Yes	<u> </u>	No
Remarks:								
This point was determined to be	within a wetland due	to the presence of all thr	ree wetland crite	eria.				
HYDROLOGY								
Wetland hydrology Indicators:	:					Secondary	/ Indicators (minimum	of two required)
Primary Indicators (minimum of o	one is required; check	all that apply)				Su	rface Soil Cracks (B6	i)
Surface Water (A1)			Fauna (B13)			Sp	arsely Vegetated Cor	ncave Surface (B8)
High Water Table (A2)		Marl De	eposits (B15) (L	.RR U)		Dra	ainage Patterns (B10)
X Saturation (A3)			en Sulfide Odor	. ,			oss Trim Lines (B16)	
Water Marks (B1)			d Rhizospheres		ots(C3)		/-Season Water Tabl	e (C2)
Sediment Deposits (B2)			ce of Reduced I	()		Cra	ayfish Burrows (C8)	
X Drift Deposits (B3)			Iron Reduction		(C6)		turation Visible on Ae	• • • •
Algal Mat or Crust (B4)			uck Surface (C7			Ge	omorphic Position (D	2)
Iron Deposits (B5)		Other (E	Explain in Rema	arks)			allow Aquitard (D3)	
Inundation Visible on Aer	0,00,00						C-Neutral Test (D5)	
X Water-Stained Leaves (E	39)					Sp	hagnum moss (D8) (I	LRR T, U)
Field Observations:								
Surface Water Present? Y	/es No) X C	Depth (inches):	N/A	Wetland H	ydrology Preser	t? Yes	X No
Water Table Present? Y	res x No	, C	Depth (inches):	3			-	
Saturation Present? Y	res X No	, C	Depth (inches):	1				
Describe Recorded Data (stream	n gauge, monitoring w	vell, aerial photos, previo	ous inspections), if available:				
Remarks:								
A positive indication of wetland h	nydrology was observe	ed (at least one primary	indicator).					
	nydrology was observe	ed (at least one primary	indicator).					
SOIL			,					
SOIL Profile Description: (Describe	e to the depth neede		icator or confi		ce of indicators.	.)		
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SOIL Profile Description: (Describe Depth	e to the depth needer latrix	d to document the ind Color (moist) 7.5YR5/8 7.5YR4/5 Matrix, MS=Masked Sa mless otherwise noted Polyvalue Thin Dari Loamy M Loamy G X Depleted Redox D Depleted	icator or confi Redox Fea % 10 20 	Atures Type1 C C C C C C C C C C C C C C C C C C C	Loc ² M M ² Location: F	PL=Pore Lining, N Indicators 2 cr Red Piec Ano (ML Red	yy y a for Problematic Hy n Muck (A9) (LRR O) n Muck (A10) (LRR S) uced Vertic (F18) (or Imont Floodplain Soil malous Bright Loamy RA 153B) Parent Material (TF2	dric Soils ³ :) Itside MLRA 150A,B) (F19) (LRR P, S, T) Soils (F20) 2)
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SOIL Profile Description: (Describe DepthM (inches)Color (mois 0-110YR4/1 2-810YR4/1 2-810YR4/1 8-180YR4/1 8-180YR4/110YR5/11Type: C=Concentration, D=Deg Hydric Soils Indicators: (Appl1Type: C=Concentration, D=Deg Hydric Soils Indicators: (A	e to the depth neede latrix st) % 90 90 80 90 90 80 90 10 10 10 10 10 10 10 10 10 10 10 10 10	d to document the ind Color (moist) 7.5YR5/8 7.5YR4/5 Matrix, MS=Masked Sa mless otherwise noted Polyvalue Thin Darl Loamy M Loamy M Loamy G X Depleted Redox D Depleted Redox D Depleted	icator or confi Redox Fea % 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 2	Atures Type ¹ C C C (C C C C C C C C C C C C C C	Loc ² M M ² Location: f	PL=Pore Lining, N Indicators Indicators 2 cr 2 cr Red Piec Ano (ML Wen Oth	y y y for Problematic Hy n Muck (A9) (LRR O) n Muck (A10) (LRR S) uced Vertic (F18) (ou Imont Floodplain Soili malous Bright Loang RA 153B) Parent Material (TF2 / Shallow Dark Surfar er (Explain in Remark	rdric Soils ³ :) itside MLRA 150A,B) s (F19) (LRR P, S, T) Soils (F20) 2) 20 20 21 22 25 25 25 25 25 26 27 27 27 27 27 27 27 27 27 27
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VEGETATION (F	i ve Strata) - Us	se scientific name	s of plants	5.			Sampling Point:		DP1	
			Absolute % cover	Dominant Species	Indicator Status	Dominance Test wor	rksheet:			
Tree Stratum	(Plot size:	30 ft.)				Number of Dominant S	Species			
1. Acer negundo			30	Yes	FAC	That Are OBL, FACW	, or FAC:		10	(A)
2. Celtis laevigata			15	Yes	FACW					
3. Quercus texana			5	No	FACW	Total Number of Domi	nant			
4.						Species Across All Str	rata:		10	(B)
5.										
6						Percent of Dominant S	Species			
			50	= Total Cover		That Are OBL, FACW	, or FAC:	10	00%	(A/B)
		50% of total cover:	25	20% of total cover:	10					
						Prevalence Index Wo	vrkshoot:			
Sapling Stratum	(Plot size:	30 ft.)				Trevalence muex we	insileet.			
1. Acer negundo			10	Yes	FAC	Total %	Cover of:		Multiply by:	
2. Quercus texana			5	Yes	FACW	OBL species		x 1 =	0	
3. Triadica sebifera			5	Yes	FAC	FACW species		x 2 =	0	
4.						FAC species		x 3 =	0	
5.						FACU species		x 4 =	0	
6.						UPL species	-	-	0	
			20	= Total Cover		Column Totals:	0	-	0	(B)
		50% of total cover:		20% of total cover:	4	oolanii Totalo.		_ (**)		(2)
<u>Shrub Stratum</u> 1. None Observed	(Plot size:					Prevalence	e Index = B/A =		N/A	
						Hydrophytic Vegetat	ion Indicators:			
							est for Hydrophytic	Vegetation		
							ince Test is >50%	vegetation		
4							ence Index is $\leq 3.0^{1}$			
5 6.							c Hydrophytic Vege	totion ¹ (Eval	loin)	
0				- Tatal Causa		Problemati	c Hydrophylic vege	ation (⊏xp	an)	
		500/ 51 1		= Total Cover		1 maile advance of heredoing				
		50% of total cover:		20% of total cover:		¹ Indicators of hydric			L	
						be present, unless dis	turbed or problema	tic.		
Herb Stratum		30 ft.)								
1. <u>Toxicodendron ra</u>	dicans		15	Yes	FAC	Definitions of Five V	egetation Strata:			
2. Carex longii			10	Yes	OBL					
3. Brunnichia ovata			10	Yes	FACW	Tree - Woody plants,				
4.				·		approximately 20 ft (6)	m) or more in heigh	t and 3 in.		
5						(7.6 cm) or larger in di	ameter at breast he	eight (DBH).		
6.										
7						Sapling - Woody plan				
8.						approximately 20 ft (6		nt and less		
9.						than 3 in. (7.6 cm) DB	H.			
10.										
11.						Shrub - Woody plants	, excluding woody	vines,		
			35	= Total Cover		approximately 3 to 20	ft (1 to 6 m) in heigl	ht.		
		50% of total cover:	17.5	20% of total cover:	7					
						Herb - All herbaceous	(non-woody) plants	s, including		
Woody Vine Stratum	(Plot size:	30 ft.)				herbaceous vines, reg	ardless of size, <u>and</u>	<u>d</u> woody		
1. Toxicodendron ra		,	15	Yes	FAC	plants, except woody	vines, less than app	proximately		
2. Rubus argutus			10	Yes	FAC	2 ft (1 m) in height.				
3 4.						Woody vine - All woo	dy vines, regardles	s of height.		
-								5		
5			25	= Tatal Cavar		Hudronbutio				
		500/ 51 1 1		= Total Cover	-	Hydrophytic				
		50% of total cover:	12.5	20% of total cover:	5	Vegetation				
						Present?	Yes X	NO		
_										
Remarks: (if obs	served, list morpho	logical adaptations be	elow).							



DP1

Project/Site:	Environmental Li	tigation	Pa	arish:	Ibervil	le	Sampling Date:	August 8, 2022
Applicant/Owner:		3P America Production			State:	Louisiana	Data Point:	DP2
		and Taylor Tur		Section, Towr) South, Range 11 East
Landform (hillslope, terrace, etc.):		depression			concave, convex,	none):	concave Slo	ope (%): 0-1
Subregion (LRR or MLRA):	LF	RR O/MLRA 131A		Lat:	30.19579	Long:	-91.34175	Datum: NAD83
Soil Map Unit Name:		DO: Dowling associati	ion, frequently	flooded		NWI Cla	ssification:	PFO1/2C
Are climatic / hydrologic conditions on	the site typical for this	time of year?	((Yes / No)	Yes	(if no, expla	ain in Remarks.)	
Are Vegetation No	,Soil <u>No</u> ,or ⊦	lydrology No	significantl	ly disturbed?	Are "Norma	al Circumstances"	present?	Yes X No
Are Vegetation No		lydrology No		roblematic?			n any answers in Re	emarks.)
SUMMARY OF FINDINGS -	Attach site map	o showing samp	ling point	locations,	transects, i	mportant fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	X No		Is the Sam	pled Area			
Wetland Hydrology Present?	Yes	X No		within a W	etland?	Yes	<u> </u>	No
Remarks:								
This point was determined to be	within a wetland due t	o the presence of all thr	ree wetland cri	iteria.				
HYDROLOGY								
Wetland hydrology Indicators	:					Secondary	Indicators (minimum	n of two required)
Primary Indicators (minimum of	one is required; check	all that apply)					face Soil Cracks (B6	
Surface Water (A1)	•	Fauna (B13)			Spa	rsely Vegetated Cor	ncave Surface (B8)	
High Water Table (A2)		eposits (B15) (LRR U)		Dra	inage Patterns (B10)	
Saturation (A3)		Hydroge	en Sulfide Odo	or (C1)		Mo	ss Trim Lines (B16)	
X Water Marks (B1)		Oxidized	d Rhizosphere	es on Living Ro	ots(C3)	Dry	-Season Water Tabl	le (C2)
X Sediment Deposits (B2)		Presend	ce of Reduced	I Iron (C4)			yfish Burrows (C8)	
Drift Deposits (B3)				n in Tilled Soils	(C6)		uration Visible on Ae	erial Imagery (C9)
Algal Mat or Crust (B4)		Thin Mu	uck Surface (C	;7)		Geo	morphic Position (D	02)
Iron Deposits (B5)		Other (E	Explain in Rem	narks)		Sha	llow Aquitard (D3)	
Inundation Visible on Ae	rial Imagery (B7)		•	,			C-Neutral Test (D5)	
X Water-Stained Leaves (B9)					Spł	agnum moss (D8) (LRR T, U)
Field Observations:								
Field Observations: Surface Water Present?	Yes No	X D)onth (inchoo)	: N/A	Watland		? Yes	X No
			Depth (inches):		wettand h	lydrology Presen	r tes	<u> </u>
	Yes <u>X</u> No Yes X No		Depth (inches): Depth (inches):					
Describe Recorded Data (stream					I			
	in gaage, mennening n	en, denai prietee, pretie		o), il arailabio.				
Remarks:								
A positivo indication of wotland	hydrology was obsorue	d (at least one primary	indicator)					
A positive indication of wetland	hydrology was observe	ed (at least one primary	indicator).					
A positive indication of wetland	hydrology was observe	ed (at least one primary	indicator).					
				firm the abset	ice of indicators	.)		
SOIL Profile Description: (Describ					nce of indicators	.)		
SOIL Profile Description: (Describe	e to the depth needed		icator or cont		nce of indicators	.) - Textu	ie	Remarks
SOIL Profile Description: (Describe Depth	e to the depth needed	to document the indi	icator or con Redox Fe	eatures		-		Remarks r mucky high organic
SOIL Profile Description: (Describe DepthN (inches)Color (moi	e to the depth needed	to document the indi	icator or con Redox Fe	eatures		Textu	slighty	
SOIL Profile Description: (Description: Depth	e to the depth needed Matrix st)	to document the indi	icator or cont Redox Fe	eatures Type ¹	Loc ²		slighty	
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-2 10YR3/1 2-6 10YR5/1	e to the depth needed Aatrix st)	Color (moist) 7.5YR5/7	icator or cont Redox Fe	eatures Type ¹ C	Loc ²	Textu Clay Clay	slighty	
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-2 10YR3/1 2-6 10YR5/1	e to the depth needed Aatrix st)	Color (moist) 7.5YR5/7	icator or cont Redox Fe	eatures Type ¹ C	Loc ²	Textu Clay Clay	slighty	
SOIL Profile Description: (Describe) Depth M (inches) Color (moi 0-2 10YR3/1 2-6 10YR5/1 6-22 10YR5/1	e to the depth needed Matrix st)	d to document the indi	icator or cont Redox Fe 	eatures Type ¹ C	Loc ²	Textu Clay Clay Clay PL=Pore Lining, M	=Matrix.	r mucky high organic
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SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-2 10YR3/1 2-6 10YR5/1 6-22 10YR5/1	e to the depth needed Matrix st)	d to document the indi Color (moist) 7.5YR5/7 7.5YR4/5 Matrix, MS=Masked Sa nless otherwise noted Polyvalue	icator or cont Redox Fe 	C C	 	PL=Pore Lining, M	=Matrix. for Problematic Hy Muck (A9) (LRR O)	r mucky high organic
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-2 10YR3/1 2-6 10YR5/1 6-22 10YR5/1	e to the depth needed Matrix st)	d to document the indi Color (moist) 7.5YR5/7 7.5YR4/5 Matrix, MS=Masked Sa nless otherwise noted Polyvalue Thin Dark	icator or cont Redox Fe 	C C	 		=Matrix. for Problematic Hy Muck (A9) (LRR O) Muck (A10) (LRR S	r mucky high organic
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VEGETATION (Five Strata) - Use scientific nam	es of plants	i.		Sampling Point:	DP2	2
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species		
1. Nyssa aquatica	15	Yes	OBL	That Are OBL, FACW, or FAC:	4	(A)
2. Celtis laevigata	10	Yes	FACW			,
3.				Total Number of Dominant		
4				Species Across All Strata:	4	(B)
5						
6.				Percent of Dominant Species		
	25	= Total Cover		That Are OBL, FACW, or FAC:	100%	(A/B)
50% of total cove	er: 12.5	20% of total cover:	5			
				Description on the day We do have		
Sapling Stratum (Plot size: 30 ft.)				Prevalence Index Worksheet:		
1. Acer negundo	15	Yes	FAC	Total % Cover of:	Multiply	v bv:
2. Celtis laevigata	5	No	FACW	OBL species	x 1 =	0
3. Acer rubrum	5	No	FAC	FACW species	x 2 =	0
4. Triadica sebifera	2	No	FAC	FAC species		0
5.			1/10	FACU species		0
6.				UPL species		0
0		= Total Cover		Column Totals: 0		0 (B)
50% of total cove		20% of total cover	5.4		(A)	0 (B)
50 % Of total COVE	1. 13.3	20 /0 01 10141 00001.	. 3.4			
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>) 1. <i>None Observed</i>				Prevalence Index = B/A =	N/A	<u> </u>
2.				Hydrophytic Vegetation Indicators:		
3.				1 - Rapid Test for Hydrophytic	Vegetation	
4				X 2 - Dominance Test is >50%	vegetation	
				$3 - Prevalence Index is \leq 3.0^{11}$		
5 6.				Problematic Hydrophytic Vege	tation ¹ (Explain)	
0		= Total Cover				
				¹ Indicators of budris soil and watland bu	dralagy must	
50% of total cove	ar:	20% of total cover:		¹ Indicators of hydric soil and wetland hy		
Herb Stratum (Plot size: 30 ft.)				be present, unless disturbed or problema	.IC.	
	54	¥	OBI	Definitions of Fire Venetation Strates		
1. Phanopyrum gymnocarpon	51	Yes	OBL	Definitions of Five Vegetation Strata:		
2. <u>Rubus argutus</u>	5	No	FAC	-		
3. <u>Ampelopsis arborea</u>	5	No	FAC	Tree - Woody plants, excluding woody vi		
4. Nyssa aquatica		No	OBL	approximately 20 ft (6m) or more in heigh		
5. <u>Cirsium horridulum</u>	2	No	FAC	(7.6 cm) or larger in diameter at breast he	ight (DBH).	
6			·	Sapling - Woody plants, excluding wood	/ vines	
7						
8				approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.	it and less	
9				than 5 m. (7.6 cm) DBH.		
10				Charles Wards and and an analysis		
11			·	Shrub - Woody plants, excluding woody		
	68 -	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in heigh	nt.	
50% of total cove	er: 34	20% of total cover:	13.6			
				Herb - All herbaceous (non-woody) plants	-	
Woody Vine Stratum (Plot size: <u>30 ft.</u>)				herbaceous vines, regardless of size, and		
1. None Observed				plants, except woody vines, less than app	roximately	
2.				2 ft (1 m) in height.		
3						
4.				Woody vine - All woody vines, regardless	s of height.	
5.						
		= Total Cover		Hydrophytic		
50% of total cove		20% of total cover:	:	Vegetation		
				-	No	
Remarks: (if observed, list morphological adaptations	below).					



Project/Site:	Environmental Li	tigation	Pa	rish:	Ibervill	le	Sampling Dat	te: August 8, 2022
Applicant/Owner:		3P America Production				Louisiana	Data Point:	
		and Taylor Tur		Section, Towns				ip 10 South, Range 11 East
Landform (hillslope, terrace, etc.):		depression	<u></u>		oncave, convex,		concave	Slope (%): 0-1
Subregion (LRR or MLRA):	LF	R O/MLRA 131A			30.19643	Long:	-91.34150	Datum: NAD83
Soil Map Unit Name:		DO: Dowling association	on, frequently	flooded			assification:	PFO1/2C
Are climatic / hydrologic conditions on t	the site typical for this	time of year?	ſ	Yes / No)	Yes	(if no, exp	ain in Remarks.)	
Are Vegetation No ,	Soil No ,or H	ydrology No	significantly	disturbed?	Are "Norma	I Circumstances"	present?	Yes X No
Are Vegetation No ,	Soil No , or H	ydrology No	naturally pr	oblematic?		(If needed, expla	in any answers i	n Remarks.)
SUMMARY OF FINDINGS -	Attach site map	o showing sampl	ing point l	locations,	transects, ii	mportant fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	X No		Is the Samp	oled Area			
Wetland Hydrology Present?	Yes	X No		within a We	tland?	Yes	x	No
Remarks:								
This point was determined to be	within a wetland due to	o the presence of all thr	ee wetland crit	eria.				
HYDROLOGY								
Wetland hydrology Indicators:	:					Secondan	Indicators (mini	mum of two required)
Primary Indicators (minimum of c		all that apply)					rface Soil Cracks	
Surface Water (A1)	one is required, check		Fauna (B13)					Concave Surface (B8)
High Water Table (A2)		posits (B15) (L	RR U)			ainage Patterns (. ,	
Saturation (A3)			en Sulfide Odor				ss Trim Lines (B	
X Water Marks (B1)				s on Living Roo	ots(C3)		/-Season Water	
Sediment Deposits (B2)			e of Reduced		00)		ayfish Burrows (C	
Drift Deposits (B3)				in Tilled Soils	(C6)		•	n Aerial Imagery (C9)
Algal Mat or Crust (B4)			ck Surface (C7		(00)		omorphic Positic	•••
Iron Deposits (B5)			Explain in Rema				allow Aquitard (C	. ,
Inundation Visible on Aer	ial Imagery (B7)			uno)			C-Neutral Test (I	,
X Water-Stained Leaves (B	,						hagnum moss (E	,
	/					·	3 (-, (, -,
Field Observations:								
	/es No		epth (inches):	<u></u>	Wetland H	lydrology Preser	it? Ye	es X No
			epth (inches):	2				
Saturation Present? Y Describe Recorded Data (stream			epth (inches): us inspections	-				
Describe recorded Data (sirear	n gaage, montoning w	si, dena proto, previo		<i>)</i> , ii availabic.				
Remarks:								
	wdrology was obsorie	d (at least one primary i	indicator)					
A positive indication of wetland h	nydrology was observe	d (at least one primary i	indicator).					
	nydrology was observe	d (at least one primary i	indicator).					
A positive indication of wetland h			,	irm the absen	ce of indicators.	.)		
A positive indication of wetland h SOIL Profile Description: (Describe			,		ce of indicators.	.)		
A positive indication of wetland h SOIL Profile Description: (Describe	e to the depth needed		cator or confi			.) - 	Ire	Remarks
A positive indication of wetland h SOIL Profile Description: (Describe DepthM	e to the depth needed	to document the indi	cator or confi Redox Fea	atures	ce of indicators	-		Remarks
A positive indication of wetland h SOIL Profile Description: (Describe DepthM (inches)Color (mois	e to the depth needed latrix	to document the indi	cator or confi Redox Fea	atures		Textu	sk sa	
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A positive indication of wetland h SOIL Profile Description: (Describe DepthM (inches)Color (mois10YR3/11-610YR3/11-610YR4/110YR5/1^1Type: C=Concentration, D=Dep Hydric Soils Indicators: (ApplHistosol (A1)Histosol (A1)Histosol (A2)	a to the depth needed atrix 3t) %	I to document the indi Color (moist) 7.5YR5/6 7.5YR4/5 Matrix, MS=Masked San Matrix, MS=Masked San less otherwise noted Polyvalue Thin Dark Loamy M	cator or confi Redox Fea 	atures 	Loc ² M M ² Location: 1		k set y hi y 1=Matrix. s for Problemati n Muck (A9) (LR n Muck (A10) (LF uced Vertic (F18	tturated gh organics c Hydric Soils ³ : R O) RR S)
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A positive indication of wetland h SOIL Profile Description: (Describe DepthM (inches)Color (mois1 0YR3/11-610YR3/11-610YR5/11-601YR5/11-601YR5/110YR5/110YR5/111+601YR5/111+611+601YR5/111+611+611+611+611+611+611+611+611+611+611+611+611+611+6	e to the depth needed latrix <u>st) %</u> <u>100</u> <u>80</u> <u>70</u> <u>0</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>80</u> <u>70</u> <u>80</u> <u>80</u> <u>70</u> <u>80</u> <u>70</u> <u>80</u> <u>80</u> <u>70</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>80</u> <u>8</u>	I to document the indi Color (moist) 7.5YR5/6 7.5YR4/5 Matrix, MS=Masked San less otherwise noted Thin Dark Loamy M Loamy G X Depleted Redox Da	cator or confi Redox Fea % 20 30 30 30 30 30 30 30 30 30 30 4 5 8 Below Surface 3 Surface (S9) ucky Mineral (f leyed Matrix (F3)	atures Type ¹ C C C (LRR S, T, U) (LRR O) (2) (3)	Loc ² M M ² Location: 1	Textu Muc Cla Cla PL=Pore Lining, N Indicators 1 cr 2 cr Red Piec Ano (ML	k set y hi y famou	turated gh organics c Hydric Soils ³ : R O) RR S)) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) aamy Soils (F20)
A positive indication of wetland h SOIL Profile Description: (Describe DepthM (inches)Color (mois10YR3/11-610YR3/110YR5/110YR5/11Type: C=Concentration, D=Dept Hydric Soils Indicators: (ApplHistosol (A1) Histic Epipedon (A2) Black Histic (A3)Hydrogen Sulfide (A4)Stratified Layers (A5) X_ Organic Bodies (A6) (LRR	e to the depth needed latrix <u>st) %</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>100</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>80</u> <u>70</u> <u>101</u> <u>70</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u>101</u> <u></u>	I to document the indi Color (moist) 7.5YR5/6 7.5YR4/5 Matrix, MS=Masked San less otherwise noted Polyvalue Thin Dark Loamy Mi Loamy Gi X Depleted Redox De Redox De	cator or confit Redox Fec % 20 30 30 30 30 30 30 30 30 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40	atures Type ¹ C C C (LRR S, T, U) (LRR S, U) (Loc ² M M ² Location: 1	PL=Pore Lining, N Indicators 2 cr 2 cr 2 cr 2 cr 2 cr 2 cr Red Piec Piec Mano (ML Red	k set y hij y famori set a Matrix. a Muck (A9) (LRI a Muc	tturated gh organics c Hydric Soils ³ : R O) RR S)) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (TF2)
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VEGETATION (Five Strata) - Use scientific nam	nes of plants			Sampling Point:	DP3
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
1. Nyssa aquatica	20	Yes	OBL	That Are OBL, FACW, or FAC:	7 (A)
2. Gleditsia triacanthos	10	Yes	FAC		
3. Acer negundo	5	No	FAC	Total Number of Dominant	
4. Acer rubrum	5	No	FAC	Species Across All Strata:	7 (B)
5					
6				Percent of Dominant Species	
	40 =	= Total Cover		That Are OBL, FACW, or FAC:	100% (A/B)
50% of total cov	er: 20	20% of total cover:	8		
				Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 30 ft.)				T levalence index worksheet.	
1. Acer rubrum	15	Yes	FAC	Total % Cover of:	Multiply by:
2. Cornus drummondii	10	Yes	FAC	OBL species	x 1 = 0
3				FACW species	x 2 = 0
4.				FAC species	x 3 = 0
5				FACU species	x 4 = 0
6.				UPL species	x 5 = 0
	25	= Total Cover		Column Totals: 0	(A) 0 (B)
50% of total cov		20% of total cover:	5	-	
Shrub Stratum (Plot size: <u>30 ft.</u>)				Prevalence Index = B/A =	N/A
1. None Observed			<u> </u>		
2				Hydrophytic Vegetation Indicators:	N/t-ti
3			<u> </u>	1 - Rapid Test for Hydrophytic	vegetation
4				X 2 - Dominance Test is >50%	
5				3 - Prevalence Index is ≤ 3.0 ¹	1
6				Problematic Hydrophytic Vege	ation' (Explain)
		= Total Cover		1	
50% of total cov	er:	20% of total cover:		¹ Indicators of hydric soil and wetland hyd	
				be present, unless disturbed or problemat	ic.
Herb Stratum (Plot size: 30 ft.)					
1. Triadica sebifera	5	Yes	FAC	Definitions of Five Vegetation Strata:	
2. Brunnichia ovata	5	Yes	FACW		
3. Phanopyrum gymnocarpon	5	Yes	OBL	Tree - Woody plants, excluding woody vi	
4			<u> </u>	approximately 20 ft (6m) or more in height	
5			<u> </u>	(7.6 cm) or larger in diameter at breast he	ight (DBH).
6					
7			·	Sapling - Woody plants, excluding woody	
8				approximately 20 ft (6 m) or more in heigh	t and less
9				than 3 in. (7.6 cm) DBH.	
10					
11				Shrub - Woody plants, excluding woody w	
	15=	= Total Cover		approximately 3 to 20 ft (1 to 6 m) in heigh	ıt.
50% of total cov	er: 7.5	20% of total cover:	3		
				Herb - All herbaceous (non-woody) plants	
Woody Vine Stratum (Plot size: 30 ft.)				herbaceous vines, regardless of size, and	
1. None Observed				plants, except woody vines, less than app	roximately
2.				2 ft (1 m) in height.	
3					
4				Woody vine - All woody vines, regardless	of height.
5.					
		= Total Cover		Hydrophytic	
50% of total cov		20% of total cover:		Vegetation	
				-	No
				100 <u>X</u>	
Remarks: (if observed, list morphological adaptations	below).			•	



DP3

Project/Site:	Environmental Lit	igation	Paris	sh [.]	lbervill	e	Sampling Date:	August 8, 2022
Applicant/Owner:		P America Production Co				Louisiana	Data Point:	DP4
		Ind Taylor Turne		ection, Towns				0 South, Range 11 East
Landform (hillslope, terrace, etc.):		depression			oncave, convex,			ope (%): 0-1
Subregion (LRR or MLRA):	LR	R O/MLRA 131A		Lat:	30.19478	Long:	-91.34223	Datum: NAD83
Soil Map Unit Name:		DO: Dowling association,	, frequently flo	poded		NWI Cla	ssification:	PFO1/2C
Are climatic / hydrologic conditions on	the site typical for this	time of year?	(Ye	es / No)	Yes	(if no, expl	ain in Remarks.)	
Are Vegetation No	,Soil <u>No</u> ,or H	ydrology No	significantly of	disturbed?	Are "Norma	l Circumstances"	present?	Yes X No
Are Vegetation No			naturally prot				n any answers in Re	emarks.)
SUMMARY OF FINDINGS -	 Attach site map 	showing samplin	g point lo	ocations,	transects, ir	nportant fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	X No		Is the Samp	led Area			
Wetland Hydrology Present?	Yes	X No		within a We	tland?	Yes	<u> </u>	No
Remarks:								
This point was determined to be	e within a wetland due to	the presence of all three	wetland criter	ria.				
HYDROLOGY								
Wetland hydrology Indicators	5:					Secondary	Indicators (minimun	n of two required)
Primary Indicators (minimum of	one is required; check	all that apply)				Sur	face Soil Cracks (B6	6)
X Surface Water (A1)		X Aquatic Fa	una (B13)			Spa	rsely Vegetated Co	ncave Surface (B8)
High Water Table (A2)	sits (B15) (LR	RR U)		Dra	inage Patterns (B10))		
Saturation (A3)		Hydrogen	Sulfide Odor ((C1)		Mo	ss Trim Lines (B16)	
X Water Marks (B1)		Oxidized R	hizospheres	on Living Roo	ots(C3)	Dry	-Season Water Tab	le (C2)
Sediment Deposits (B2)		Presence of	of Reduced In	on (C4)		Cra	yfish Burrows (C8)	
Drift Deposits (B3)		Recent Iron	n Reduction in	n Tilled Soils	(C6)	Sat	uration Visible on Ae	erial Imagery (C9)
Algal Mat or Crust (B4)		Thin Muck	Surface (C7)			Ge	omorphic Position (E	02)
Iron Deposits (B5)		Other (Exp	lain in Remar	rks)		Sha	llow Aquitard (D3)	
Inundation Visible on Ae	erial Imagery (B7)					X FA	C-Neutral Test (D5)	
Water-Stained Leaves (B9)					Spł	agnum moss (D8) (LRR T, U)
Field Observations:								
Surface Water Present?	Yes X No	Dep	th (inches):	3	Wetland H	ydrology Presen	? Yes	X No
Water Table Present?	Yes <u>x</u> No	Dep	th (inches):					
Saturation Present?	Yes x No	Dep	th (inches):					
Describe Recorded Data (stream	m gauge, monitoring we	ell, aerial photos, previous	inspections),	if available:				
Remarks:								
A positive indication of wetland	hydrology was observe	d (at least one primary ind	licator).					
	hydrology was observe	d (at least one primary ind	licator).					
SOIL			,					
SOIL Profile Description: (Describ	e to the depth needed		tor or confirm		ce of indicators.)		
SOIL Profile Description: (Describe Depth	e to the depth needed	to document the indica	tor or confir Redox Feat	ures		- -	6	Remarks
SOIL Profile Description: (Describe DepthN (inches)Color (moi	e to the depth needed		tor or confirm		ce of indicators.	Textu		Remarks
SOIL Profile Description: (Description: Depth N (inches) Color (moi 0-4 10YR3/1	e to the depth needed Matrix	to document the indica	tor or confir Redox Feat	ures Type ¹	Loc ²	Textu Muc	(Remarks
SOIL Profile Description: (Describe DepthN (inches)Color (moi	e to the depth needed Matrix 1 100 1 80	to document the indica	tor or confir Redox Feat	ures		Textu	<u></u>	Remarks
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-4 10YR3/1 4-12 10YR6/1	e to the depth needed <u>Matrix</u> <u>%</u> <u>1</u> <u>100</u> <u>1</u> <u>80</u>	to document the indica Color (moist) 7.5YR5/6	tor or confirm Redox Feat	Ures Type ¹ C	Loc ²	Textu Muc Clay	<u></u>	Remarks
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-4 10YR3/1 4-12 10YR6/1	e to the depth needed <u>Matrix</u> <u>%</u> <u>1</u> <u>100</u> <u>1</u> <u>80</u>	to document the indica Color (moist) 7.5YR5/6	tor or confirm Redox Feat	Ures Type ¹ C	Loc ²	Textu Muc Clay	<u></u>	Remarks
SOIL Profile Description: (Description: Depth M (inches) Color (moi 0-4 10YR3/1 4-12 10YR6/1	e to the depth needed Matrix 1 100 1 80 1 90	to document the indica Color (moist) 7.5YR5/6 7.5YR6/6	tor or confiru Redox Feat %	Ures Type ¹ C	C	Textu Muc Clay		Remarks
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SOIL Profile Description: (Description: (De	e to the depth needed <u>Matrix</u> <u>1 100</u> <u>1 80</u> <u>1 90</u> <u>1 9</u>	to document the indica Color (moist) 7.5YR5/6 7.5YR6/6 Watrix, MS=Masked Sand Mass otherwise noted.) Polyvalue B Thin Dark S Loamy Mucl Loamy Gley X Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (Depleted Oc Iron-Mangar Umbric Surf	tor or confirm Redox Featu % 20 10 Grains. elow Surface urface (S9) (L ky Mineral (F4 ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F6) ark Surface (F6) LRR U) chric (F11) (M nese Masses ace (F13) (LF	UTES Type ¹ C C (S8) (LRR S, LRR S, T, U) 1) (LRR O) (F12) (LRR RR P, T, U)	<u>Loc²</u> <u>M</u> ² Location: F	PL=Pore Lining, M Indicators Clay PL=Pore Lining, M Indicators 2 cm Redu Pied Pied Anor (MLI Red Very Othe	Muck (A9) (LRR O Muck (A9) (LRR O Muck (A10) (LRR O Muck (A10) (LRR S Muck (A10) (LRR S Iced Vertic (F18) (o mont Floodplain Soil nalous Bright Loamy At 153B) Parent Material (TF: Shallow Dark Surfa r (Explain in Remart udicators of hydroph	/dric Soils ³ :) 3) utside MLRA 150A,B) Is (F19) (LRR P, S, T) / Soils (F20) 2) ce (TF12) (s)
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SOIL Profile Description: (Description: (Description: (Description: (Description: (Description: (Description: (Description: (Description: 0-4 10)YR3/1 4-12 10)YR6/1 6-20 10)YR5/1	e to the depth needed <u>Matrix</u> <u>ist)</u> % <u>1</u> 100 <u>1</u> 80 <u>1</u> 90 <u>1</u> 90 <u>1</u> <u>1</u> 90 <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	to document the indica Color (moist) 7.5YR5/6 7.5YR6/6 7.5YR6/6 Matrix, MS=Masked Sand less otherwise noted.) Polyvalue B Thin Dark S Loamy Mucl Loamy Gley X Depleted Ma Redox Dark Depleted Da Redox Derp Marl (F10) (t Depleted Oc Iron-Mangar Umbric Surf Delta Ochric Reduced Ve Piedmont Fi	tor or confirm Redox Featu % 20 10 10 Grains. elow Surface urface (S9) (L ky Mineral (F1 ed Matrix (F2) Surface (F6) ark Surface (F6) LRR U) bric (F11) (M nese Masses ace (F13) (LF c (F17) (MLR. ertic (F18) (MI oodplain Soils	UTES Type ¹ C C (S8) (LRR S, LRR S, T, U) (F12) (LRR RR P, T, U) A 151) LRA 150A, 11 s (F19) (MLR	 	PL=Pore Lining, M Indicators 1 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2	=Matrix. for Problematic Hy Muck (A9) (LRR O Muck (A10) (LRR O Muck (A10) (LRR S icced Vertic (F18) (o nont Floodplain Soil nalous Bright Loamy RA 153B) Parent Material (TF: Shallow Dark Surfa r (Explain in Remart indicators of hydroph drology must be pre	ydric Soils ³ :) 3) utside MLRA 150A,B) Is (F19) (LRR P, S, T) / Soils (F20) 2) ce (TF12) (s) ydic vegetation and wetland
SOIL Profile Description: (Description: (De	e to the depth needed <u>Matrix</u> <u>ist)</u> % <u>1</u> 100 <u>1</u> 80 <u>1</u> 90 <u>1</u> 90 <u>1</u> <u>1</u> 90 <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	to document the indica Color (moist) 7.5YR5/6 7.5YR6/6 7.5YR6/6 Matrix, MS=Masked Sand less otherwise noted.) Polyvalue B Thin Dark S Loamy Mucl Loamy Gley X Depleted Ma Redox Dark Depleted Da Redox Derp Marl (F10) (t Depleted Oc Iron-Mangar Umbric Surf Delta Ochric Reduced Ve Piedmont Fi	tor or confirm Redox Featu % 20 10 10 Grains. elow Surface urface (S9) (L ky Mineral (F1 ed Matrix (F2) Surface (F6) ark Surface (F6) LRR U) bric (F11) (M nese Masses ace (F13) (LF c (F17) (MLR. ertic (F18) (MI oodplain Soils	UTES Type ¹ C C (S8) (LRR S, LRR S, T, U) (F12) (LRR RR P, T, U) A 151) LRA 150A, 11 s (F19) (MLR	 	PL=Pore Lining, M Indicators Indicators 2 cm 2 cm 2 cm Redu Pied Anor (MLI Red Very Othe Very Dothe	Muck (A9) (LRR 0) Muck (A9) (LRR 0) Muck (A10) (LRR 5) Muck (A10) (LRR 5) Cod Vertic (F18) (o nont Floodplain Soil nalous Bright Loamy RA 153B) Parent Material (TF: Shallow Dark Surfa r (Explain in Remart dicators of hydroph rdrology must be pre- oblematic.	ydric Soils ³ :)) utside MLRA 150A,B) (s (F19) (LRR P, S, T) (Soils (F20) 2) ce (TF12) (s) ydic vegetation and wetland esent, unless disturbed or
SOIL Profile Description: (Description: (Des	e to the depth needed <u>Matrix</u> <u>ist)</u> % <u>1</u> 100 <u>1</u> 80 <u>1</u> 90 <u>1</u> 90 <u>1</u> <u>1</u> 90 <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	to document the indica Color (moist) 7.5YR5/6 7.5YR6/6 7.5YR6/6 Matrix, MS=Masked Sand less otherwise noted.) Polyvalue B Thin Dark S Loamy Mucl Loamy Gley X Depleted Ma Redox Dark Depleted Da Redox Derp Marl (F10) (t Depleted Oc Iron-Mangar Umbric Surf Delta Ochric Reduced Ve Piedmont Fi	tor or confirm Redox Featu % 20 10 10 Grains. elow Surface urface (S9) (L ky Mineral (F1 ed Matrix (F2) Surface (F6) ark Surface (F6) LRR U) bric (F11) (M nese Masses ace (F13) (LF c (F17) (MLR. ertic (F18) (MI oodplain Soils	UTES Type ¹ C C (S8) (LRR S, LRR S, T, U) (F12) (LRR RR P, T, U) A 151) LRA 150A, 11 s (F19) (MLR	 	PL=Pore Lining, M Indicators 1 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2	Muck (A9) (LRR 0) Muck (A9) (LRR 0) Muck (A10) (LRR 5) Muck (A10) (LRR 5) Cod Vertic (F18) (o nont Floodplain Soil nalous Bright Loamy RA 153B) Parent Material (TF: Shallow Dark Surfa r (Explain in Remart dicators of hydroph rdrology must be pre- oblematic.	ydric Soils ³ :) 3) utside MLRA 150A,B) Is (F19) (LRR P, S, T) / Soils (F20) 2) ce (TF12) (s) ydic vegetation and wetland
SOIL Profile Description: (Description: (De	e to the depth needed <u>Matrix</u> <u>ist)</u> % 1 100 1 80 1 90 	to document the indica	tor or confirm Redox Featu % 20 10 Grains. elow Surface urface (S9) (L ky Mineral (F1 ed Matrix (F2) surface (F6) ark Surface (F6) ark Surface (F6) hric (F11) (M nese Masses ace (F13) (LF c (F17) (MLRJ odplain Soils Bright Loamy	UTES Type ¹ C C (S8) (LRR S, LRR S, T, U) (F12) (LRR O) (F12) (LRR RR P, T, U) A 151) LRA 150A, 11 IRA 150A, 12 Soils (F20) (I	C, P, T)	PL=Pore Lining, M Indicators 1 cm 2 cm Pied Pied Pied Redu Wery Othe 31 h pied 32 cm 2 cm 2 cm 2 cm 34 Pied 36 0 cm 31 h pied 31 h	Muck (A9) (LRR 0) Muck (A9) (LRR 0) Muck (A10) (LRR 5) Muck (A10) (LRR 5) Cod Vertic (F18) (o nont Floodplain Soil nalous Bright Loamy RA 153B) Parent Material (TF: Shallow Dark Surfa r (Explain in Remart dicators of hydroph rdrology must be pre- oblematic.	ydric Soils ³ :)) utside MLRA 150A,B) (s (F19) (LRR P, S, T) (Soils (F20) 2) ce (TF12) (s) ydic vegetation and wetland esent, unless disturbed or

VEGETATION (Five Strata) - Use scientific r	names of plants	i.		Sampling Point:	DP4
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species	
1. Taxodium distichum	25	Yes	OBL	That Are OBL, FACW, or FAC:	5 (A)
2. Acer rubrum	15	Yes	FAC		
3. Celtis laevigata	5	No	FACW	Total Number of Dominant	
4				Species Across All Strata:	5 (B)
5.					
6				Percent of Dominant Species	
	45 :	= Total Cover		That Are OBL, FACW, or FAC:	100% (A/B)
50% of total	cover: 22.5	20% of total cover:	9		
		-		Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 30 ft.)				Trevalence index worksheet.	
1. Acer rubrum	5	Yes	FAC	Total % Cover of:	Multiply by:
2. Nyssa aquatica	5	Yes	OBL	OBL species	x 1 = 0
3				FACW species	x 2 = 0
4.				FAC species	x 3 = 0
5		·		FACU species	x 4 = 0
6.		·		UPL species	x 5 = 0
		= Total Cover		Column Totals: 0	
50% of total		20% of total cover:	2		
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>) 1. <i>None Observed</i>				Prevalence Index = B/A =	N/A
2				Hydrophytic Vegetation Indicators:	
3		······································		1 - Rapid Test for Hydrophytic	Vegetation
				X 2 - Dominance Test is >50%	Vogetation
4			·	$3 - Prevalence Index is \leq 3.0^{1}$	
5 6.				Problematic Hydrophytic Veget	tation ¹ (Explain)
0		= Total Cover			
50% -ft-t-1				¹ Indiastors of hydric call and watland hyd	drology must
50% OF 101al	cover:	20% of total cover:		¹ Indicators of hydric soil and wetland hydric soil and wetland hydric be present, unless disturbed or problemati	
Harb Stratum (Distaire) 20 ft)				be present, unless disturbed or problemati	IC.
Herb Stratum (Plot size: 30 ft.)		¥		Definitions of Fire Venetation States	
1. <u>Phanopyrum gymnocarpon</u>	70	Yes	OBL	Definitions of Five Vegetation Strata:	
2				Tree - Woody plants, excluding woody vir	
3					
4		······································		approximately 20 ft (6m) or more in height	
5		······································		(7.6 cm) or larger in diameter at breast hei	ight (DBH).
6				Sapling - Woody plants, excluding woody	vines
7		······································		approximately 20 ft (6 m) or more in height	
8				than 3 in. (7.6 cm) DBH.	
9		<u> </u>			
10		<u> </u>		Shrub - Woody plants, excluding woody v	inoc
11		······································		approximately 3 to 20 ft (1 to 6 m) in heigh	
		= Total Cover		approximately 5 to 20 ft (1 to 6 ff) in heigh	it.
50% of total	cover: 35	20% of total cover:	14		
				Herb - All herbaceous (non-woody) plants	-
Woody Vine Stratum (Plot size: 30 ft.	_)			herbaceous vines, regardless of size, and	
1. None Observed		. <u> </u>		plants, except woody vines, less than app	roximately
2				2 ft (1 m) in height.	
3					
4				Woody vine - All woody vines, regardless	of height.
5	<u> </u>	<u> </u>			
		= Total Cover		Hydrophytic	
50% of total	cover:	20% of total cover:		Vegetation	
		-		Present? Yes X	No
Remarks: (if observed, list morphological adaptati	ons below).				



DP4

Project/Site:	ct/Site: Environmental Litigation					rish:	lbonvillo		Compling Date:	August 9, 2022
							Iberville		Sampling Date:	August 8, 2022
Applicant/Owner:			BP America Pr				itate:	Louisiana	Data Point:	DP5
Investigator(s):	Wade Bryan	. <u>L</u>	-	Taylor Turne		Section, Towns			15, Township 10 Sou	
Landform (hillslope, terrac			depression				oncave, convex, n		Nex Slope (
Subregion (LRR or MLRA)):	L	RR O/MLRA 1			_ Lat:	30.19905	·		tum: NAD83
Soil Map Unit Name:			DO: Dowling	association				NWI Classifi	-	PF01/2C
Are climatic / hydrologic co		• ·				Yes / No)	Yes	(if no, explain i	,	
Are Vegetation	No ,Soil		Hydrology	No	significantly			Circumstances" pres		<u>X</u> No
Are Vegetation	No ,Soil		Hydrology	No	naturally pro				ny answers in Remark	(S.)
SUMMARY OF FIN	IDINGS - Attac	:h site ma	p showing	samplir	ng point l	locations,	transects, im	portant featur	es, etc.	
Hydrophytic Vegetation F	Present?	Yes	х	No						
Hydric Soil Present?		Yes		No	x	Is the Samp	led Area			
Wetland Hydrology Prese	ent?	Yes		No	x	within a We	tland?	Yes	No	x
Remarks:	rmined net to be with	hin a watland	due to the leak	of hudrio oo	ile and water	nd bydrology				
This point was deter	mined not to be with	III a wetianu o	Jue to the lack		is and wettar	na nyarology.				
HYDROLOGY										
Wetland hydrology	/ Indicators:							Secondary Indi	icators (minimum of t	vo required)
Primary Indicators (minimum of one is re	eauired: chec!	(all that apply)						e Soil Cracks (B6)	
Surface Wat		<u> ,</u>	<u></u>	Aquatic Fa	auna (B13)				ly Vegetated Concave	e Surface (B8)
High Water Table (A2) Marl Deposits (E						RR U)			ge Patterns (B10)	
								`	rim Lines (B16)	
Saturation (A3) Hydrogen Sulfid Water Marks (B1) Oxidized Rhizos						()	ote(C3)		ason Water Table (C2	2)
	. ,				of Reduced I	0	13(00)		h Burrows (C8)	-)
Sediment De Drift Deposit	,					()	(C6)		. ,	magazi (CQ)
·	()					in Tilled Soils	(00)		ion Visible on Aerial I	nagery (C9)
Algal Mat or					CSurface (C7				rphic Position (D2)	
Iron Deposit	()	(D7)		Other (Exp	plain in Rema	arks)			v Aquitard (D3)	
	isible on Aerial Imag	jery (B7)							eutral Test (D5)	
Water-Staine	ed Leaves (B9)							Spnagr	num moss (D8) (LRR	1, 0)
Field Observations:										
Surface Water Present?	Yes	No	5 X	Der	oth (inches):	N/A	Wetland Hy	drology Present?	Yes	No X
Water Table Present?	Yes	No	5 <u>x</u>	Der	oth (inches):	>20	-			
Saturation Present?	Yes	No	» <u>x</u>		oth (inches):	>20				
Describe Recorded	Data (stream gauge	e, monitoring v	vell, aerial phot	os, previous	inspections), if available:				
Remarks:		-	-							
No positive indicatio	on of wetland hydrolo	ogy was obser	ved.							
SOIL										
SUIL										
Profile Description	: (Describe to the	depth neede	d to documen	t the indica	ator or confi	irm the absen	ce of indicators.)			
Depth	Matrix				Redox Fea	atures				
(inches)	Color (moist)	%	Color (mo	ist)	%	Type ¹	Loc ²	Texture		Remarks
0-2	10YR7/1	100							top of levee	
2-17	10YR7/ 3	100								
¹ Type: C=Concentr	otion D=Doplation			_						
	alion, D-Depietion,	RM=Reduced	Matrix, MS=M	asked Sand	Grains.		² Location: P	L=Pore Lining, M=Ma		
Hydric Soils Indica	ators: (Applicable				Grains.		² Location: Pl		atrix. Problematic Hydric	Soils ³ :
Hydric Soils Indica Histosol (A1)			unless otherwi	ise noted.)		e (S8) (LRR S		Indicators for		Soils ³ :
	ators: (Applicable		unless otherwi	ise noted.) Polyvalue B	Below Surface	e (S8) (LRR S (LRR S, T, U)		Indicators for 1 cm Mu	Problematic Hydric	Soils ³ :
Histosol (A1) Histic Epipede	ators: (Applicable		unless otherwi	ise noted.) Polyvalue B Thin Dark S	Below Surface Surface (S9) ((LRR S, T, U)		Indicators for 1 cm Mu 2 cm Mu	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S)	
Histosol (A1) Histic Epipedo Black Histic (A	ators: (Applicable on (A2) A3)		unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc	3elow Surface Surface (S9) (sky Mineral (F	(LRR S, T, U) F1) (LRR O)		Indicators for 1 cm Mu 2 cm Mu Reduced	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid	e MLRA 150A,B)
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul	ators: (Applicable on (A2) A3) Ifide (A4)		unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley	Below Surface Surface (S9) (Sky Mineral (F yed Matrix (F	(LRR S, T, U) F1) (LRR O)		Indicators for 1 cm Mu 2 cm Mu Reduced Piedmon	Problematic Hydric ck (A9) (LRR O) ick (A10) (LRR S) d Vertic (F18) (outsid at Floodplain Soils (F1	e MLRA 150A,B) 9) (LRR P, S, T)
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye	ators: (Applicable on (A2) A3) Ifide (A4) ers (A5)	to all LRRs, ι	unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M	Below Surface Surface (S9) (sky Mineral (F yed Matrix (F latrix (F3)	(LRR S, T, U) F1) (LRR O) F2)		Indicators for 1 cm Mu 2 cm Mu Reduced Piedmon Anomalo	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid at Floodplain Soils (F1 pus Bright Loamy Soil:	e MLRA 150A,B) 9) (LRR P, S, T)
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie	ators: (Applicable on (A2) A3) Ifide (A4) ers (A5) es (A6) (LRR P, T, U	to all LRRs, ເ ປ)	unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark	Below Surface Surface (S9) (Sky Mineral (F yed Matrix (F latrix (F3) k Surface (F6	(LRR S, T, U) F1) (LRR O) F2)		Indicators for 1 cm Mu 2 cm Mu Reduced Piedmon Anomalo (MLRA 1	Problematic Hydric tck (A9) (LRR O) tck (A10) (LRR S) d Vertic (F18) (outsid tt Floodplain Soils (F1 bus Bright Loamy Soil: 153B)	e MLRA 150A,B) 9) (LRR P, S, T)
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M	ators: (Applicable on (A2) A3) (fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P	to all LRRs, ເ ປ)	unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Di	Below Surface Surface (S9) (:ky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface ((LRR S, T, U) =1) (LRR O) =2) =================================		Indicators for 1 cm Mu 2 cm Mu Reduced Piedmon Anomalo (MLRA 1 Red Pare	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid the Floodplain Soils (F1 bus Bright Loamy Soils 153B) ent Material (TF2)	e MLRA 150A,B) 9) (LRR P, S, T) s (F20)
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky N Muck Presend	ators: (Applicable on (A2) A3) fifide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P) ce (A8) (LRR U)	to all LRRs, ເ ປ)	unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Depl	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface (ressions (F8)	(LRR S, T, U) =1) (LRR O) =2) =================================		Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Pan Very Sha	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid tt Floodplain Soils (F1 bus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T	e MLRA 150A,B) 9) (LRR P, S, T) s (F20)
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Present 1 cm Muck (A	ators: (Applicable on (A2) A3) fifide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T)	to all LRRs, u U) , T, U)	unless otherwi	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Below Surface Surface (S9) (ky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface (ressions (F8 (LRR U)	(LRR S, T, U) =1) (LRR O) =2) =3) (F7))		Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Pan Very Sha	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid the Floodplain Soils (F1 bus Bright Loamy Soils 153B) ent Material (TF2)	e MLRA 150A,B) 9) (LRR P, S, T) s (F20)
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky N Muck Presend 1 cm Muck (A Depleted Belo	ators: (Applicable on (A2) A3) fifide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) ww Dark Surface (A1	to all LRRs, u U) , T, U)	uniess otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O	Below Surface Surface (S9) (cky Mineral (F yed Matrix (F3) k Surface (F6 ark Surface (ressions (F8 (LRR U) rchric (F11) (I	(LRR S, T, U) F1) (LRR O) (2) (F7) (F7) MLRA 151)	T, U)	Indicators for 1 cm Mu 2 cm Mu Reducee Piedmon (MLRA 1 	Problematic Hydric tck (A9) (LRR O) tck (A10) (LRR S) d Vertic (F18) (outsid at Floodplain Soils (F1 bus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks)	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12)
Histosol (A1) Histic Epipedd Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky N Muck Presend 1 cm Muck (A Depleted Belo Thick Dark Su	ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) ow Dark Surface (A1 urface (A12)	to all LRRs, t U) , T, U) 11)	uniess otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark Redox Depl Marl (F10) (Depleted O Iron-Manga	Below Surface Surface (S9) (cky Mineral (F yed Matrix (F3) k Surface (F6 ark Surface (ressions (F8 (LRR U) uchric (F11) (I unese Masse	(LRR S, T, U) (LRR O) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7)	T, U)	Indicators for 1 cm Mu 2 cm Mu Reduced Piedmon Anomalo (MLRA 1 Red Par Very Sha Other (E ³ Indic	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 us Bright Loamy Soils 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Lays Organic Bodie 5 cm Muck Presend 1 cm Muck (A Depleted Belo Thick Dark Su Coast Prairie	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dimeral (A7) (LRR P ce (A8) (LRR U) (JRR P, T) ow Dark Surface (A1 urface (A12) Redox (A16) (MLR/	to all LRRs, t U) , T, U) 11) A 150A)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Di Redox Depl Marl (F10) (Depleted O Iron-Manga Umbric Surt	Below Surface Surface (S9) (kky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface (F6 ark Surface ((LRR U) ichric (F11) (I innese Masses face (F13) (L	(LRR S, T, U) (LRR O) (F1) (LRR O) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) s (F12) (LRR LRR P, T, U)	T, U)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro	Problematic Hydric tck (A9) (LRR O) tck (A10) (LRR S) d Vertic (F18) (outsid at Floodplain Soils (F1 bus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks)	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Lays Organic Bodie 5 cm Mucky Muck Presend 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I, dimeral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) 90 (LRR P, T) w Dark Surface (A1 urface (A12) Redox (A16) (MLRJ Mineral (S1) (LRR	to all LRRs, t U) , T, U) 11) A 150A)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Di Redox Depleted Di Mari (F10) Depleted O Iron-Manga Umbric Surl Delta Ochri	Below Surface Surface (S9) (kky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface (F6 ark Surface (F6 (LRR U) ichric (F11) (I innese Masses face (F13) (L	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (RR 151) (LRR 0) (LRR 0	T, U) O, P, T)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky Muck Presend 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyed	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P, ce (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A1 urface (A12) Redox (A16) (MLR/ Mineral (S1) (LRR d Matrix (S4)	to all LRRs, t U) , T, U) 11) A 150A)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Depl Marl (F10) (Depleted O Iron-Manga Umbric Surl Detta Ochria Reduced Vo	Below Surface Surface (S9) (kky Mineral (F yed Matrix (F3) k Surface (F6 ark Surface ((LRR U) ichric (F11) (I innese Massee face (F13) (L ic (F17) (MLF ertic (F18) (N	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR 0) (LRR 151) (LRR 0) (LRR 151) (LRR 151) (LRR 0) (LRR 151) (LRR 151) (LR	т, U) О, Р, Т) 50B)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark St Coast Prairie Sandy Mucky Sandy Gleyeo Sandy Redox	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P, ce (A8) (LRR U) 9) (LRR P, T) 99) (LR P, T) 90) (L	to all LRRs, t U) , T, U) 11) A 150A)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Massei face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 0) (CR 0) (C	T, U) O, P, T) 50B) A 149A)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyec Sandy Redox	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) ers (A6) (LRR P, T, I dineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) ww Dark Surface (A1 riface (A12) Redox (A16) (MLR/ Mineral (S1) (LRR d Matrix (S4) (S5) ix (S6)	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Massei face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 0) (CR 0) (C	т, U) О, Р, Т) 50B)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyec Sandy Redox	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P, ce (A8) (LRR U) 9) (LRR P, T) 99) (LR P, T) 90) (L	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Massei face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 151) (LRR 0) (CR 0	T, U) O, P, T) 50B) A 149A)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipede Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyec Sandy Redox	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A1 urface (A12) Redox (A16) (MLR/ Mineral (S1) (LRR d Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T,	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Masser face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 151) (LRR 0) (CR 0	T, U) O, P, T) 50B) A 149A)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presend 1 cm Muck (A Depleted Belc Thick Dark St Coast Prairie Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matr Dark Surface	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A1 urface (A12) Redox (A16) (MLR/ Mineral (S1) (LRR d Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T,	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Masser face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 151) (LRR 0) (CR 0	T, U) O, P, T) 50B) A 149A)	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark St Coast Prairie Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matr Dark Surface	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P, Ce (A8) (LRR U) 9) (LRR P, T) ww Dark Surface (A1) urface (A12) Redox (A16) (MLR, Mineral (S1) (LRR d Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, I if observed):	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Masser face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 151) (LRR 0) (CR 0	T, U) O, P, T) 50B) A 149A) MLRA 149A, 153C	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomala (MLRA 1 Red Par Very Sha Other (E ³ Indic hydro proble	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 sus Bright Loamy Soil: 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky M Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark St Coast Prairie Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matr Dark Surface Restrictive Layer (f Type: Depth (incher	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I dineral (A7) (LRR P, Ce (A8) (LRR U) 9) (LRR P, T) ww Dark Surface (A1) urface (A12) Redox (A16) (MLR, Mineral (S1) (LRR d Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, I if observed):	to all LRRs, t U) ; T, U) 11) A 150A) O, S)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Surl Delta Ochric Reduced Vi Piedmont F	Below Surface Surface (S9) (ky Mineral (F yed Matrix (F3) & Surface (F6 ark Surface (F6 ark Surface ((LRR U) uchric (F11) (I unese Masser face (F13) (L ic (F17) (MLF ertic (F18) (N ioodplain Soi	(LRR S, T, U) (LRR O) (2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (LRR 151) (LRR P, T, U) (RA 151) (LRR 151) (LRR 151) (LRR 151) (LRR 0) (CR 0	T, U) O, P, T) 50B) A 149A) MLRA 149A, 153C	Indicators for 1 cm Mu 2 cm Mu Reduced Ned Red Par Very Sha Very Sha Other (E 	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 us Bright Loamy Soils 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present ematic.	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland unless disturbed or
Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye Organic Bodie 5 cm Mucky N Muck Presenc 1 cm Muck (A Depleted Belc Thick Dark Su Coast Prairie Sandy Mucky Sandy Gleyeo Sandy Redox Stripped Matr Dark Surface Restrictive Layer (i	Ators: (Applicable on (A2) A3) fide (A4) ers (A5) es (A6) (LRR P, T, I, Uineral (A7) (LRR P ce (A8) (LRR U) 9) (LRR P, T) w Dark Surface (A1 urface (A12) Redox (A16) (MLRJ Mineral (S1) (LRR 4) Matrix (S4) (S5) ix (S6) (S7) (LRR P, S, T, I if observed):	to all LRRs, t U) , T, U) 11) A 150A) O, S) U)	unless otherwi 	ise noted.) Polyvalue B Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Di Redox Depi Mari (F10) Depleted O Iron-Manga Umbric Surt Delta Ochri Reduced Vi Piedmont F Anomalous	Below Surface Surface (S9) (kky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 ark Surface (F6 (LRR U) rchric (F11) (I nese Masses face (F13) (L c (F17) (MLF ertic (F18) (N Floodplain Soi Bright Loam	(LRR S, T, U) (LRR S, T, U) (F1) (LRR O) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (C7) (F7) (LRR 0) (F7) (LRR 0) (C7) (LRR 0) (F7) (LRR 0) (LRR 0) (C7) (LRR 0) (LRR 0) (LR 0) (T, U) O, P, T) 50B) A 149A) MLRA 149A, 153C	Indicators for 1 cm Mu 2 cm Mu Piedmon Anomalo (MLRA 1 Red Pan Very Sha Other (E 	Problematic Hydric ck (A9) (LRR O) ck (A10) (LRR S) d Vertic (F18) (outsid it Floodplain Soils (F1 us Bright Loamy Soils 153B) ent Material (TF2) allow Dark Surface (T xplain in Remarks) ators of hydrophytic v logy must be present ematic.	e MLRA 150A,B) 9) (LRR P, S, T) s (F20) F12) egetation and wetland unless disturbed or

VEGETATION (Five Strata) - Use scientific name	es of plants	S.		Sampling Point:	DP5	
	Absolute % cover	Dominant Species	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft.)				Number of Dominant Species		
1. Quercus nigra	20	Yes	FAC	That Are OBL, FACW, or FAC:	8 (A)	
2. Acer rubrum	10	Yes	FAC			
3				Total Number of Dominant		
4				Species Across All Strata:	8 (B)	
5						
6				Percent of Dominant Species		
		= Total Cover		That Are OBL, FACW, or FAC:	100% (A/B))
50% of total cover	r: <u>15</u>	20% of total cover:	6			
				Prevalence Index Worksheet:		
Sapling Stratum (Plot size: <u>30 ft.</u>)						
1. Quercus nigra	15	Yes	FAC	Total % Cover of:	Multiply by:	
2. Cornus drummondii	5	Yes	FAC		x 1 = 0	
3. <u>Triadica sebifera</u>		Yes	FAC	FACW species	x 2 = 0 x 3 = 0	
4 5				FAC species FACU species	x 4 = 0	
6.			·	UPL species	x 5 = 0	
0	25	= Total Cover	·	Column Totals: 0	· <u> </u>	(B)
50% of total cove			5		(A)	(D)
		2070 01 10101 001011				
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>) 1. <i>None Observed</i>				Prevalence Index = B/A =	N/A	
2			·	Hydrophytic Vegetation Indicators:		
3				1 - Rapid Test for Hydrophytic	Vegetation	
4				X 2 - Dominance Test is >50%	3	
5.			·	3 - Prevalence Index is $\leq 3.0^1$		
6.				Problematic Hydrophytic Vege	ation ¹ (Explain)	
		= Total Cover				
50% of total cover	r:	20% of total cover:		¹ Indicators of hydric soil and wetland hydric soil and hydric soil a	drology must	
				be present, unless disturbed or problemat	ic.	
Herb Stratum (Plot size: 30 ft.)						
1. Quercus nigra	10	Yes	FAC	Definitions of Five Vegetation Strata:		
2. <u>Campsis radicans</u>	5	Yes	FAC			
3. Brunnichia ovata	5	Yes	FACW	Tree - Woody plants, excluding woody vi	nes,	
4. Toxicodendron radicans	2	No	FAC	approximately 20 ft (6m) or more in height	and 3 in.	
5. Diospyros virginiana	2	No	FAC	(7.6 cm) or larger in diameter at breast he	ight (DBH).	
6				Senling Weedy plants, evoluting weedy	vince	
7				Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh		
8				than 3 in. (7.6 cm) DBH.	t and less	
9			<u> </u>			
10				Shrub - Woody plants, excluding woody v	lines	
11		- T-t-l C		approximately 3 to 20 ft (1 to 6 m) in heigh		
50% of total cove		= Total Cover 20% of total cover:	1 9			
50% of total cover	1. 12	20% 01 10141 00001.	4.8	Herb - All herbaceous (non-woody) plants	. includina	
Woody Vine Stratum (Plot size: 30 ft.)				herbaceous vines, regardless of size, and		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft.</u>) 1. None Observed				plants, except woody vines, less than app		
				2 ft (1 m) in height.		
2						
4				Woody vine - All woody vines, regardless	of height.	
5.						
		= Total Cover		Hydrophytic		
50% of total cove		20% of total cover:		Vegetation		
				-	No	
Remarks: (if observed, list morphological adaptations t	below).					

