**Appendix D – Wetland Delineation Report** 



Waters of the US and Wetlands Delineation Report

### MARINA WAY EXTENTION PROJECT

**Prince William County, Virginia** 

Project Identifier 23C17011 VDOT UPC 120778

Submitted to:

**Prince William County Department of Transportation** 



### Executive Summary

Johnson, Mirmiran & Thompson (JMT) has conducted a delineation of jurisdictional waters of the U.S. (WOUS), including wetlands, within a 20.8 acre study area located in Prince William County, Virginia. (Figure 1) The project involves extending Marina Way from Annapolis Way to Horner Road at Gordon Boulevard with a four-lane divided roadway and associated pedestrian facilities. This report is intended to document the findings of the delineation investigation conducted by JMT in order to obtain a preliminary jurisdictional determination (PJD) from the U.S. Army Corps of Engineers (USACE).

There are approximately 0.14 acres of palustrine forested wetland within the study area.



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### Site Description

The proposed project is located within Prince William County between the Annapolis Way and Horner Road at Route 123 (Gordon Boulevard) and lies within the Coastal Plain physiographic province. The study area is approximately 20.8 acres. To gain access to the site from I-95 northbound, take exit 160A and continue on Route 123 (Gordon Boulevard) east, then turn north onto Horner Road.

The southern portion of the study area is completely paved. This area is used for customer parking that serves the stores located in the center of the study area (Figure 1). The northern portion of the study area is forest land consisting of mostly mixed, broad-leaf, deciduous forested communities that transition to old field/disturbed communities closer to Annapolis Way. Elevation ranges from approximately 70 to 100 feet above mean sea level (amsl) within an area that is predominantly developed (Figure 2). The study area watershed flows to Popes Head Creek which is part of the Middle Potomac – Anacostia – Occoquan River (Hydrologic Unit Code [HUC] 02070010). Elevations on the site range from approximately 71 to 91 feet above mean sea level (amsl). The latitude and longitude of the approximate center of the site are N 38.665503°, W -77.246582°. Mapping from the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) Panel 51153C0236E (Dated 8/3/215) is shown in Figure 3 and documents that the study area is not located within a FEMA 100-year floodplain (FEMA, 2015).

### Field Investigation Methodology

A field investigation was conducted to delineate potentially jurisdictional Waters of the U.S. (WOUS), including wetlands within the study area. A wetland delineation was performed according to the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Regional Supplement, Version 2.0, (USACE, 2010). The Corps of Engineers Wetland Delineation Manual states three criteria (wetland vegetation, wetland soils, and wetland hydrology) must be present for an area to qualify as a wetland, unless the area is significantly disturbed (atypical situation) or is considered a problem area (e.g., seasonally ponded soils). If the area is significantly disturbed or a problem area, then only two parameters must be evident to classify an area as a wetland. All delineated wetlands are classified into system, subsystem, class, and subclass according to the Classification of Wetlands and Deep Water Habitats of the United States (Cowardin et al., 1979).

In order to delineate wetland boundaries, samples were taken periodically using a dutch auger. Soil samples were collected at each wetland and upland sample point, and soil colors were recorded in the field using a Munsell soil color chart (Munsell Color, 2010). NRCS digital soils data and mapping were obtained from the NRCS website and were compared for consistency to the observed conditions encountered during the field investigations. These data were augmented by review of soils data for the property. Site photographs are included in Appendix A; a photo location key is included to orient photographic location within the site. All figures associated with desktop review and field delineation are located in Appendix B.



Samples of vegetation, soils, and hydrology were taken at representative locations that were possible wetlands and adjacent non-wetland areas to determine the potential wetland boundaries. Wetland Determination Data Forms describing representative plant communities, hydrology indicators, and soil characteristics are included in Appendix C. WOUS boundaries were flagged in the field and documented using a Trimble® global positioning system (GPS) capable of sub-meter accuracy.

### Findings

### **PUBLISHED INFORMATION**

Prior to conducting the fieldwork, a desktop review of published information was performed to identify known site conditions and to determine the presence of known jurisdictional wetlands and/or WOUS in the study area. The bullets below provide a list of the references utilized and their effective dates.

- Fort Belvoir, Virginia 7.5' x 7.5' Topographic Quadrangle (USGS, 2019) (Figure 2);
- FEMA FIRM Panel. Prince William County, Virginia. Map #51153C0236E (FEMA, 2010) (**Figure 3**)
- National Wetlands Inventory (NWI) (USFWS, 2017) (Figure 4);
- Web Soil Survey. Prince William County, Virginia (USDA/NRCS, 2021) (Figure 5); and

All figures are presented in Appendix B.

NWI mapping shows a palustrine freshwater emergent wetland (PEM) within the project study area (Figure 4). No other NWI-mapped wetlands or WOUS were identified in the desktop review.

Mapped soils information is presented in Table 1 below and no mapped hydric soils or soils with hydric inclusions (shown as Percent Hydric Presence) were identified within the project area. One soil map unit (54B) was not classified by hydric rating or % Hydric Presence, but is urban land and other disturbed soils that are highly variable and not typically expected to have hydric features. Mapped soils are shown in Figure 5.

TABLE 1. SOIL UNITS MAPPED WITHIN THE STUDY AREA

<b>M</b> AP UNIT SYMBOL	MAP UNIT NAME	MAP UNIT PROPERTIES	HYDRIC RATING	% HYDRIC PRESENCE
18D	Dumfries sandy loam, 15 to 25 percent slopes	Not prime farmland	Not hydric	0
42B	Neabsco-Quantico complex, 2 to 7 percent slopes	Not prime farmland	Not hydric	0
54B	Urban land-Udorthents complex, 0 to 7 percent slopes	Not prime farmland	Unclassified	Unclassified
Source: USDA-N	IRCS Soil Survey 2021			



### FIELD INVESTIGATIONS

Field investigations were conducted on June 13, 2023, by JMT environmental scientists Amy Musselman and Steven Swarr, to identify and delineate wetlands and WOUS within the study area. A pedestrian survey of the entire undeveloped limits within the property was conducted and potential jurisdictional areas identified during desktop review were investigated. Due to design constraints, the study area was expanded. A pedestrian survey of the additional area was performed on February 27, 2024. Two upland sample plots were taken to provide a representation of the study area and one wetland data point was collected, following the USACE regional supplement methods; one upland data point (DPU 1) was taken in the vicinity of the NWI-mapped wetland feature and documents absence of hydric soils, hydrology and wetland vegetation in this location. JMT delineated one forested wetland adjacent to the developed portions of the property. The location of the delineated system is shown on the Waters of the US Delineation Map in Figure 6. Photographic documentation is included in Appendix A. Wetland data sheets are in Appendix C.

### Wetlands

<u>Wetland A</u> - Wetland A is an isolated palustrine forested (PFO) wetland located in the central portion of the project area along the SW edge of the undeveloped, vegetated area (Figure 6). The primary hydrology indicators throughout this wetland included standing water and water-stained leaves. The secondary hydrology indicators included a FAC-neutral test and drainage patterns. There was standing water (approximately 12 inches deep) where the wetland data point was taken. The dominant vegetation where the wetland data point was taken included willow oak (*Quercus phellos*) and common reed (*Phragmites australis*). Vegetation throughout the wetland was consistent with the wetland data point. Soils were hydric with a matrix chroma of 10 YR 4/4 from 0-4 inches and 10 YR 3/2 from 4 plus inches. Soils were a silt loam. See Appendix C – Data Sheets for additional information.

TABLE 2. WETLANDS AND WATERS OF THE US IDENTIFIED WITHIN THE STUDY AREA

MAP ID	NAME	CLASSIFICATION	LENGTH (FT)	AREA (SQ FT)
Wet A	N/A	PFO	N/A	5,987

### **Regulatory Requirements and Limitations**

The limits of WOUS described in this report are based on an examination of field conditions at the time of this investigation and may differ from future observations by others. This report does not constitute a jurisdictional determination; such determinations must be verified by the USACE or VA Department of Environmental Quality (VDEQ). Given the isolated nature of the wetland identified onsite, it is unlikely the USACE will exert jurisdiction over this feature. However, VDEQ currently conducts State Surface Water Determinations and may review this delineation upon request.



Resources not jurisdictional to USACE may still be regulated by VDEQ. Section 404 of the Clean Water Act authorizes the USACE to regulate the placement of fill in jurisdictional areas. Virginia Administrative Code (9VAC25-690-100) authorizes VDEQ to regulate activities in state waters, which includes wetlands, streams and waterbodies. Any proposed impacts to WOUS may require authorization from the appropriate federal, state, and/or local regulatory agencies.

Prince William County's Chesapeake Bay Preservation Ordinance is enacted to mandate the authority of the Chesapeake Bay Preservation Act (CBPA). The CBPA protects environmentally sensitive features which contribute to the water quality in the Chesapeake Bay. RPAs include both tidal and nontidal wetlands, as well as tidal shores, intermittent streams, water bodies with a perennial flow, and a 100-foot vegetated buffer area located adjacent to the aforementioned features. According to Section 118-5-2(a), public roads, such as this project, are exempt from the provisions of the Ordinance.



## **APPENDIX A**PHOTOGRAPHIC DOCUMENTATION



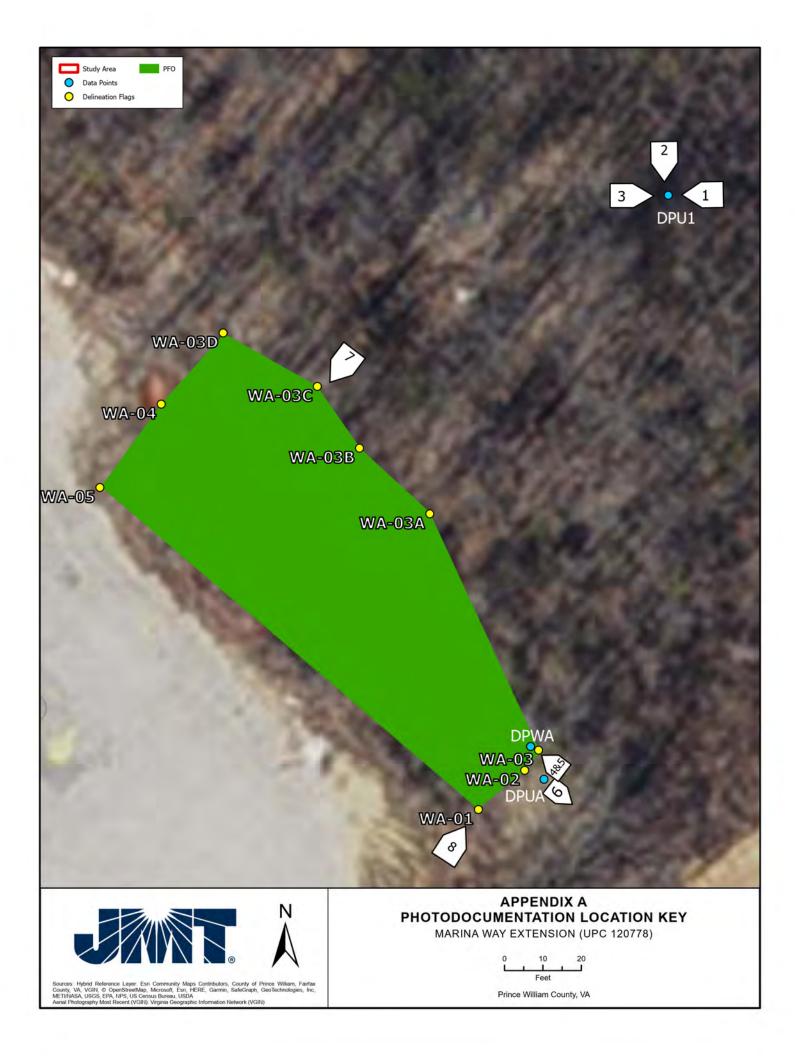




Photo 1: View of DPU1 facing west.



Photo 2: View of DPU1 facing south.



Photo 3: View of DPU1 facing east.



Photo 4: View of DPWA facing northwest.

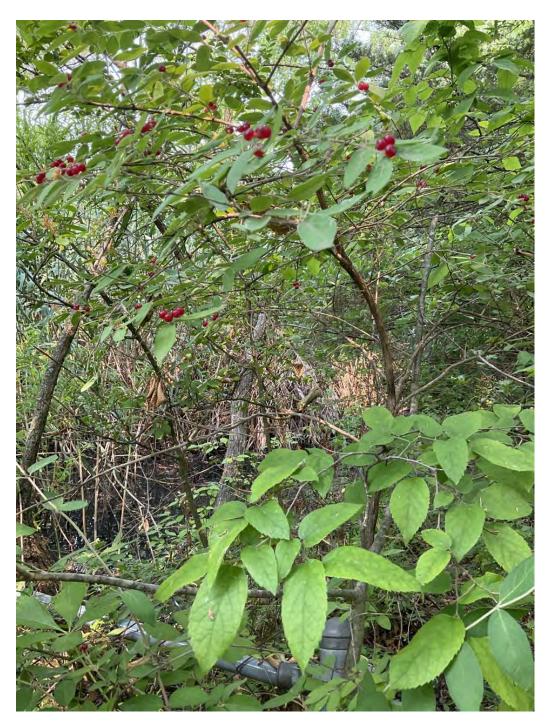


Photo 5: View of DPWA facing northwest.



Photo 6: View of DPUA facing east.



Photo 7: View of Wetland A (PFO) facing southwest.



Photo 8: View of Wetland A (PFO) facing northeast.

## **APPENDIX B** FIGURES



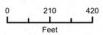




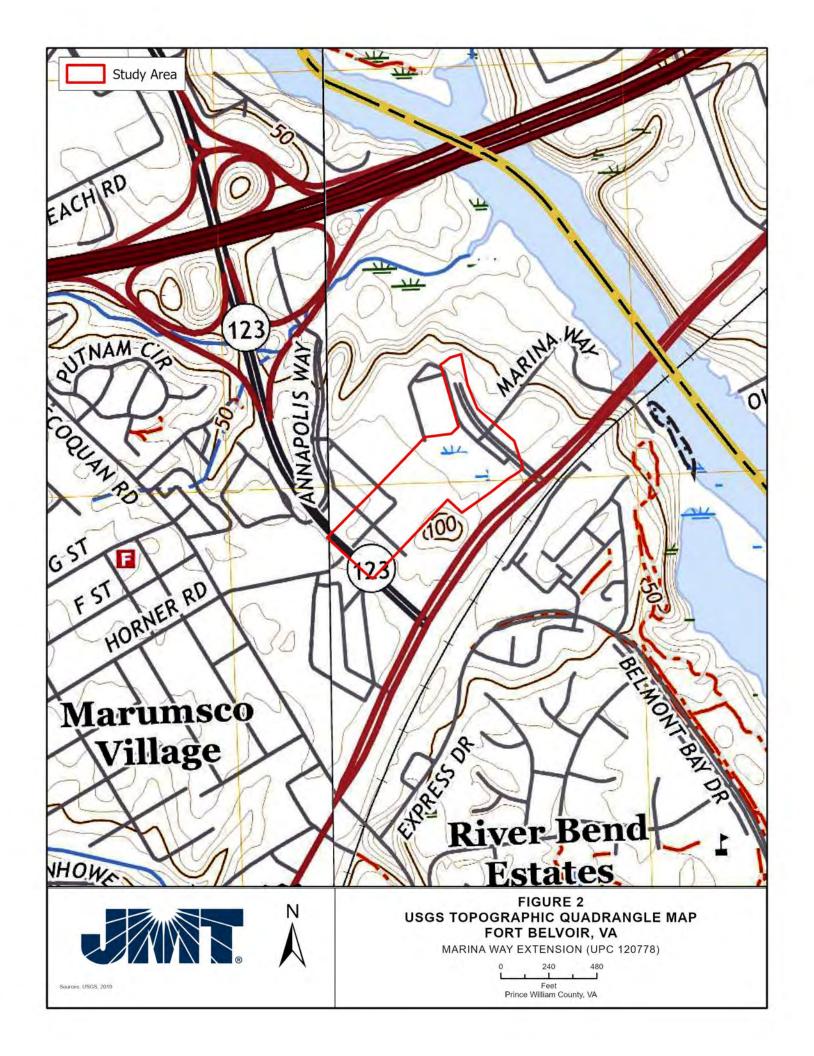


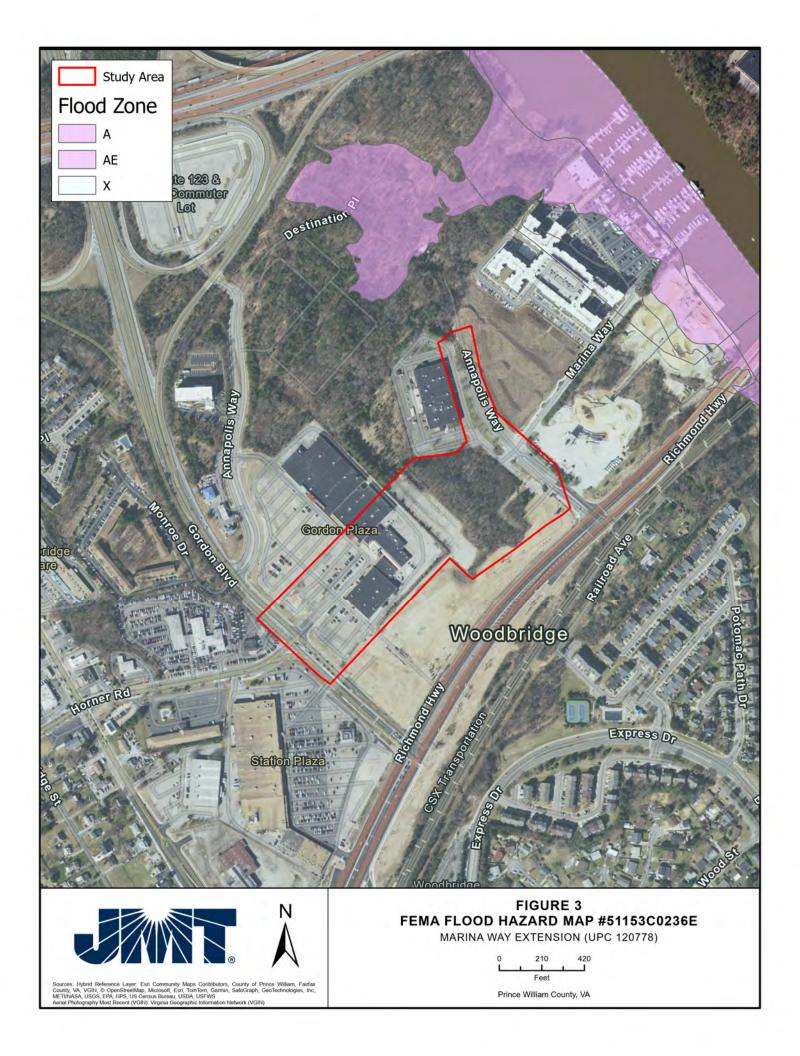
### FIGURE 1 PROJECT LOCATION

MARINA WAY EXTENSION (UPC 120778)

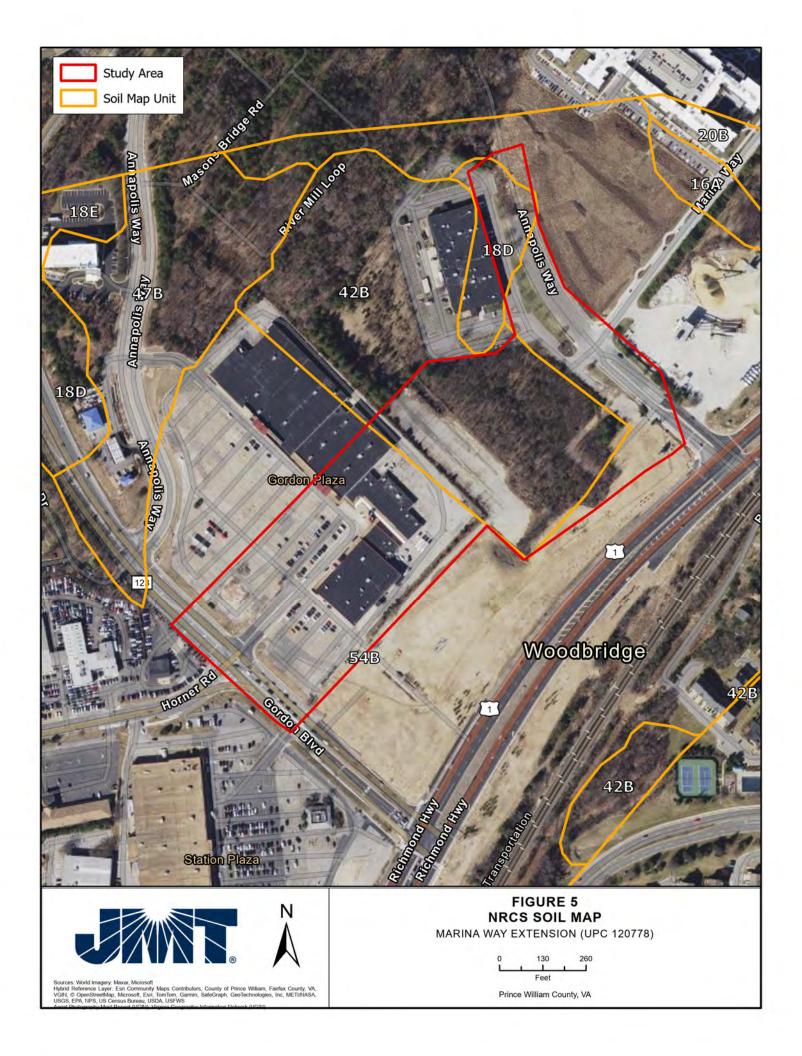


Prince William County, VA











# **APPENDIX C**SITE DATA SHEETS



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

Project/Site: Marina Way Extension	City/County:		Sampling Date: 2023-06-07
Applicant/Owner:			
111/00	Section, Township		
Landform (hillslope, terrace, etc.):			
Subregion (LRR or MLRA):	Lat: 38.66515376	Long:77.24588	516 Datum: WGS 84
Soil Map Unit Name:			assification:
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes		
Are Vegetation, Soil, or Hydrology			ices" present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any a	
SUMMARY OF FINDINGS - Attach site ma			
Hydrophytic Vegetation Present? Yes	No V		
	No V		N
Wetland Hydrology Present? Yes		etland? Yes	No
Remarks:	l		
Area was in a drought leading up to deline 0.47 inches of precipitation in the 2 weeks and was not typical of that area (catalpa, b and old field conditions within the last 20 years).	prior to the site visit. Vege radford pear, etc.). Historic	tation was disturbed (Google Earth) pho	from previous development
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface	e Soil Cracks (B6)
Surface Water (A1) Aqua	atic Fauna (B13)	Sparse	ely Vegetated Concave Surface (B8)
High Water Table (A2) Marl	Deposits (B15) (LRR U)	Draina	ge Patterns (B10)
	rogen Sulfide Odor (C1)		Frim Lines (B16)
Water Marks (B1) Oxid	ized Rhizospheres along Living I	Roots (C3) Dry-Se	eason Water Table (C2)
	ence of Reduced Iron (C4)		sh Burrows (C8)
	ent Iron Reduction in Tilled Soils		tion Visible on Aerial Imagery (C9)
	Muck Surface (C7)		orphic Position (D2)
	r (Explain in Remarks)		w Aquitard (D3)
Inundation Vis ble on Aerial Imagery (B7)			eutral Test (D5)
Water-Stained Leaves (B9)		Spnagi	num moss (D8) (LRR T, U)
Field Observations:	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetlend Hydreleny D	resent? Yes No
(includes capillary fringe)			resent? res No
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspec	tions), if available:	
Remarks:			

### **VEGETATION (Fiv**

EGETATION (Five Strata) – Use scientific nar				Sampling Point: DPU1
ree Stratum (Plot size: 30 ft r			Indicator Status	Dominance Test worksheet:
Acer rubrum	30	<u> </u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Pyrus calleryana	20			That Ale OBE, I AOW, OI I AO.
Quercus rubra	10		FACU	Total Number of Dominant Species Across All Strata: 4 (B)
•	· <del></del>	-		Species Across All Strata: 4 (B)
·		-	· ——	Percent of Dominant Species
•				That Are OBL, FACW, or FAC: 75 (A/B
-	60%	T-4-1 O-		Prevalence Index worksheet:
50% - 54-4-1 30.0		= Total Co		Total % Cover of: Multiply by:
50% of total cover: 30.0 apling Stratum (Plot size: 30 ft r	20% 01	total cove	12.0	OBL species $0   x 1 = 0$
During golleriums	15	~		FACW species 10 x 2 = 20
<u> </u>				FAC species 50 x 3 = 150
			·	FACU species 20 x 4 = 80
			· ——	UPL species 0 x 5 = 0
			·	Column Totals: 80 (A) 250 (B)
				(A)(D)
		-		Prevalence Index = B/A = 3.1
		= Total Co		Hydrophytic Vegetation Indicators:
50% of total cover: 7.5	20% of	total cove	r: <u>3.0</u>	1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size: 30 ft r )				✓ 2 - Dominance Test is >50%
Morus alba	10		FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
•				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
-				Definitions of Five Vegetation Strata:
	10%	= Total Co	ver	Tree Meady plants avaluding woody vines
50% of total cover: 5.0	20% of	total cove	<sub>r:</sub> 2.0	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
lerb Stratum (Plot size: 30 ft r				(7.6 cm) or larger in diameter at breast height (DBH).
Toxicodendron radicans	20	~	FAC	Sapling – Woody plants, excluding woody vines,
Leersia virginica	10	~	FACW	approximately 20 ft (6 m) or more in height and less
		-		than 3 in. (7.6 cm) DBH.
		-		Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
-				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size, <u>and</u> woody
				plants, except woody vines, less than approximately
				3 ft (1 m) in height.
				Woody vine – All woody vines, regardless of height.
0			·	
1	20%		·	
		= Total Co		
50% of total cover: 15.0	20% of	total cove	r: <u>0.0</u>	
/oody Vine Stratum (Plot size: 30 ft r )				
				Hydrophytic
		= Total Co	ver	Hydrophytic Vegetation
				Present? Yes No

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

SOIL Sampling Point: DPU1

Profile Desc	ription: (Describe	to the dept	h needed to docur	ment the ir	ndicator	or confirm	the absence o	of indicate	ors.)	
Depth	Matrix			x Features	4					
(inches)	Color (moist)		Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>		Remark	S
0 - 4	10YR 3/4	100		<u> </u>			Clay Loam			
4 - 12	10YR 4/6	100					Clay Loam			
-										
_										
<sup>1</sup> Type: C=Co	ncentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: I	PL=Pore L	ining, M=Ma	atrix.
Hydric Soil I	ndicators: (Applic	cable to all L	RRs, unless other	rwise note	ed.)		Indicators f	or Proble	matic Hydr	ic Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) <b>(L</b>	RR S, T, L	J) 1 cm Mi	uck (A9) <b>(</b> I	LRR O)	
Histic Ep	ipedon (A2)		Thin Dark Su				2 cm Mi			
Black Hi			Loamy Muck	•		O)				e MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		=2)					9) (LRR P, S, T)
	Layers (A5)	. T IIV	Depleted Ma Redox Dark		6)			ous Brigni <b>A 153B)</b>	Loamy Soil	S (F20)
_	Bodies (A6) (LRR F cky Mineral (A7) (L		Depleted Dai	,	,		•	rent Mater	ial (TF2)	
	esence (A8) (LRR l		Redox Depre						k Surface (T	F12)
· <del></del>	ck (A9) (LRR P, T)	- ,	Marl (F10) <b>(L</b>		,		-		Remarks)	,
Depleted	l Below Dark Surfac	ce (A11)	Depleted Ocl	hric (F11) <b>(</b>	(MLRA 1	51)				
· <del></del>	rk Surface (A12)		Iron-Mangan					-		getation and
			) Umbric Surfa			U)		-	ogy must be	-
-	lucky Mineral (S1) <b>(</b> leyed Matrix (S4)	LRR O, S)	Delta Ochric Reduced Ver			0A 150B)		ss disturbe	ed or problei	natic.
-	edox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C,	153D)		
	face (S7) (LRR P,	S, T, U)	_	9	, (	- / (	- ,,	,		
Restrictive I	ayer (if observed)	):								
Type:										
Depth (inc	ches):		<u></u>				Hydric Soil F	Present?	Yes	No
Remarks:							-			
i										

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

Project/Site: Marina Way Extension	City/County:		Sampling Date: 2023-06-07				
Applicant/Owner:		State:					
Investigator(s): AM/SS	Section, Township,						
Landform (hillslope, terrace, etc.):							
Subregion (LRR or MLRA):		,					
Soil Map Unit Name:							
Are climatic / hydrologic conditions on the site typical	•						
Are Vegetation, Soil, or Hydrology		re "Normal Circumstances" p	resent? Yes No				
Are Vegetation, Soil, or Hydrology	naturally problematic? (	If needed, explain any answer	rs in Remarks.)				
SUMMARY OF FINDINGS - Attach site	map showing sampling poir	nt locations, transects	, important features, etc.				
Hydrophytic Vegetation Present? Yes	No Is the Samr						
	No.		No 🗸				
	No within a We	tiand? Yes	NO				
Remarks:	<u> </u>						
Area was in a drought leading up to delin 0.47 inches of precipitation in the 2 week and was not typical of that area (catalpa, and old field conditions within the last 20	s prior to the site visit. Vegeta bradford pear, etc.). Historic (	tion was disturbed from Google Earth) photos sl	previous development				
HYDROLOGY							
Wetland Hydrology Indicators:	and all the of an all A	· · · · · · · · · · · · · · · · · · ·	tors (minimum of two required)				
Primary Indicators (minimum of one is required; che		Surface Soil					
	Agri Danasita (B13)		Sparsely Vegetated Concave Surface (B8)				
	Marl Deposits (B15) <b>(LRR U)</b> Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)				
	Oxidized Rhizospheres along Living R		Moss Trim Lines (B16) Dry-Season Water Table (C2)				
	Presence of Reduced Iron (C4)	Crayfish Burr					
	Recent Iron Reduction in Tilled Soils (	· · · · · · · · · · · · · · · · · · ·	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) T	hin Muck Surface (C7)	Geomorphic	Position (D2)				
Iron Deposits (B5) C	Other (Explain in Remarks)	Shallow Aqui	tard (D3)				
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral					
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) <b>(LRR T, U)</b>				
Field Observations:	Danith (in the ca)						
	Depth (inches):						
	Depth (inches):  Depth (inches):	Wetland Hydrology Presen	t? Yes No				
Saturation Present? Yes No No	Deptit (inches)	wetiand nydrology Presen	it? res NO				
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspect	ions), if available:					
Remarks:							

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ree Stratum (Plot size: 30 ft r ) Catalpa speciosa	% Cover 20	Species?	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)		
 				Total Number of Dominant Species Across All Strata: 3 (B)		
				Percent of Dominant Species		
•				That Are OBL, FACW, or FAC: 67 (A/B		
). 	20%	= Total Cov	er	Prevalence Index worksheet:		
50% of total cover: 10.0	20% of	total cover:	4.0	Total % Cover of: Multiply by:		
Sapling Stratum (Plot size: 30 ft r )				OBL species $0 \times 1 = 0$		
·				FACW species $0   x 2 = 0$		
				FAC species $\frac{25}{x^3} = \frac{75}{x^5}$		
				FACU species 20 x 4 = 80		
i				UPL species $0   x 5 = 0$		
l				Column Totals: 45 (A) 155 (B)		
i						
S				Prevalence Index = B/A = 3.4		
F00/ -f14-4-1		= Total Cov		Hydrophytic Vegetation Indicators:		
50% of total cover:	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation		
Shrub Stratum (Plot size: 30 ft r )				✓ 2 - Dominance Test is >50%		
·				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
<u> </u>				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3						
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
5				be present, unless disturbed or problematic.		
5				Definitions of Five Vegetation Strata:		
		= Total Cov		Tree – Woody plants, excluding woody vines,		
50% of total cover:	20% of	total cover		approximately 20 ft (6 m) or more in height and 3 in.		
Herb Stratum (Plot size: 30 ft r	4=			(7.6 cm) or larger in diameter at breast height (DBH).		
Toxicodendron radicans	15		FAC	Sapling – Woody plants, excluding woody vines,		
Baccharis halimifolia	10		FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
Panicum sp.	5			than 3 m. (7.0 dm) BBm.		
l 5				<b>Shrub</b> – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
). 				Herb – All herbaceous (non-woody) plants, including		
·				herbaceous vines, regardless of size, and woody		
3.				plants, except woody vines, less than approximately		
				3 ft (1 m) in height.		
)				Woody vine – All woody vines, regardless of height.		
10						
1	000/	T-4-1 O-1				
700/ 54 - 1 15 0		= Total Cov				
50% of total cover: 15.0	20% of	total cover:	0.0			
Noody Vine Stratum (Plot size: 30 ft r )						
l						
2						
3						
1						
5				Hydrophytic		
		= Total Cov	er	Vegetation		
	20% of total cover:			Present? Yes No		

SOIL Sampling Point: DPUA

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence o	f indicato	ors.)	
Depth	Matrix			x Features	3					
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture		Remarks	
0 - 12	10YR 3/4	100					Clay Loam			
-										
_										
										_
-										
<sup>1</sup> Type: C=Co	oncentration, D=Dep	oletion RM=R	educed Matrix MS	S=Masked	Sand Gra	ins	<sup>2</sup> Location: F	PI =Pore I	ining, M=Matri	ix
	ndicators: (Applic								matic Hydric	
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) <b>(L</b>	RR S. T. L	J) 1 cm Mu	ıck (A9) <b>(L</b>	RR O)	
	ipedon (A2)		Thin Dark Su					ıck (A10) (	•	
Black Hi			Loamy Mucky	Mineral (	(F1) <b>(LRR</b>	0)	Reduced	d Vertic (F	18) <b>(outside l</b>	MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)					(LRR P, S, T)
	Layers (A5)		Depleted Mat					_	Loamy Soils (	F20)
	Bodies (A6) (LRR F		Redox Dark S	•	•			A 153B)	:-L (TEO)	
	cky Mineral (A7) <b>(L</b> esence (A8) <b>(LRR l</b>		Depleted Dar					ent Materi	ıaı (1F2) k Surface (TF1	2)
	ck (A9) <b>(LRR P, T)</b>	,	Redox Depre Marl (F10) <b>(L</b>		3)			xplain in F		2)
	Below Dark Surfac	ce (A11)	Depleted Och		(MLRA 15	51)	Other (E	.хрішіі і і і	(cinanto)	
	ark Surface (A12)	, ,	Iron-Mangan				T) <sup>3</sup> Indicat	tors of hyd	drophytic vege	tation and
Coast Pr	rairie Redox (A16) (	MLRA 150A)	Umbric Surfa	ce (F13) <b>(</b>	LRR P, T,	U)	wetla	nd hydrol	ogy must be p	resent,
-	lucky Mineral (S1) (	LRR O, S)	Delta Ochric					s disturbe	d or problema	itic.
-	leyed Matrix (S4)		Reduced Ver							
-	edox (S5)		Piedmont Flo					(50D)		
	Matrix (S6)	S T II)	Anomalous B	right Loan	ny Solis (F	-20) (WILK	A 149A, 153C, 1	153D)		
	face (S7) (LRR P, s _ayer (if observed)						1			
Type:	-uyo. ( oboo. rou)	•								
	ches):		<u> </u>				Hydric Soil P	recent?	Yes	No
Remarks:			<del>_</del>				Trydric 30ii F	resent:	163	
Remarks.										

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

Project/Site: Marina Way Extension	City/County:		Sampling Date: 2023-06-07				
Applicant/Owner:		State:					
44400	Section, Township,						
Landform (hillslope, terrace, etc.):							
Subregion (LRR or MLRA):							
Soil Map Unit Name:							
Are climatic / hydrologic conditions on the site typical	·						
Are Vegetation, Soil, or Hydrology _		re "Normal Circumstances" p	resent? Yes No				
Are Vegetation, Soil, or Hydrology	naturally problematic? (I	f needed, explain any answer	rs in Remarks.)				
SUMMARY OF FINDINGS - Attach site	map showing sampling poin	t locations, transects	, important features, etc.				
Hydrophytic Vegetation Present? Yes	No Is the Samp						
Hydric Soil Present? Yes	No.		🗸				
Wetland Hydrology Present? Yes	No within a We	tland? Yes	No				
Remarks:							
Area was in a drought leading up to delineat	ion which is atypical for the area.	According to NOAA, the a	rea received 0.47 inches of				
precipitation in the 2 weeks prior to the site	/isit.						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface Soil (	Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Veg	Sparsely Vegetated Concave Surface (B8)				
	Marl Deposits (B15) <b>(LRR U)</b>	Drainage Pat	Drainage Patterns (B10)				
	Hydrogen Sulfide Odor (C1)	Moss Trim Li					
	Oxidized Rhizospheres along Living Ro		Vater Table (C2)				
	Presence of Reduced Iron (C4)	Crayfish Burr					
	Recent Iron Reduction in Tilled Soils (C		sible on Aerial Imagery (C9)				
1 — ° · · · · —	Thin Muck Surface (C7)	Geomorphic					
Iron Deposits (B5) (B7) (B7)	Other (Explain in Remarks)	Shallow Aqui					
Water-Stained Leaves (B9)			oss (D8) <b>(LRR T, U)</b>				
Field Observations:		Spriagrium in	1033 (D0) (LIKK 1, 0)				
	Depth (inches): 0						
	Depth (inches):						
		Wetland Hydrology Presen	t? Yes No				
(includes capillary fringe)		, ,,	1: 1c3 NO				
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspection	ons), if available:					
Remarks:							
	u l DDMA						
Ponded water observed in portion of wet	land near DPWA						

	Ahsolute	Dominant	Indicator	Sampling Point: DPWA  Dominance Test worksheet:
ree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
Quercus phellos	15	V	FACW	That Are OBL, FACW, or FAC: 2 (A)
				, ,
				Total Number of Dominant Species Across All Strata: 2 (B)
				Species Across Air Strata (b)
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/
				That Are OBL, FACW, or FAC: 100 (A/
	15%			Prevalence Index worksheet:
75		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>7.5</u>	20% 01	total cover	3.0	OBL species 0 x 1 = 0
apling Stratum (Plot size: 30 ft r )				FACW species $100$ $\times 2 = 200$
				FAC species $0 \times 3 = 0$
				FACU species 0 x 4 = 0
				17100 Species X +
				Column Totals: <u>100</u> (A) <u>200</u> (E
				Prevalence Index = B/A = 2.0
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover	·	✓ 1 - Rapid Test for Hydrophytic Vegetation
hrub Stratum (Plot size: 30 ft r				✓ 2 - Dominance Test is >50%
Phragmites australis	85	<b>✓</b>	FACW	3 - Prevalence Index is ≤3.0¹
				9- Prevalence index is \$3.0 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				Problematic Hydrophytic Vegetation (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·				I indicators of hydric soil and watland hydrology must
				be present, unless disturbed or problematic.
	85%	= Total Cov	er	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines,
50% of total cover: 42.5	85%	= Total Cov	er	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of total cover: 42.5	85% 5 20% of	= Total Cov	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover: <u>42.</u> ! erb Stratum (Plot size: <u>30 ft r</u> )	85% 5 20% of	= Total Cov	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines,
50% of total cover: <u>42.</u> ! erb Stratum (Plot size: <u>30 ft r</u> )	85% 5 20% of	= Total Cov	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
50% of total cover: 42.9	85% 5 20% of	= Total Cov	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
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50% of total cover: <u>42.</u> erb Stratum (Plot size: <u>30 ft r</u> )	85% 5 20% of	= Total Cov	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
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50% of total cover: 42.5	85% 5 20% of	= Total Cover:	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5	85% 5 20% of	= Total Cover:	rer 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
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50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of total cover: 42.5  erb Stratum (Plot size: 30 ft r )	85% 5 20% of	= Total Covers	17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	be present, unless disturbed or problematic.  Definitions of Five Vegetation Strata:  Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine – All woody vines, regardless of height.
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SOIL Sampling Point: DPWA

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the in	ndicator o	r confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0 - 4	10 YR 4/4	100					Clay loam			
4 +	10 YR 3/2	100					Clay loam			
_										
							-			
				·						_
-										
¹Type: C=Co	oncentration, D=Depl	etion RM=Re	educed Matrix MS	S=Masked	Sand Gra	ins	<sup>2</sup> l ocation:	PI =Pore I	ining, M=Matrix	
	ndicators: (Applica								matic Hydric S	
Histosol			Polyvalue Be			RR S. T. U			•	
	ipedon (A2)		Thin Dark Su					uck (A10)	•	
Black His			Loamy Muck						18) <b>(outside N</b>	ILRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	F2)		Piedmo	nt Floodpl	ain Soils (F19)	(LRR P, S, T)
	Layers (A5)		✓ Depleted Ma	trix (F3)			Anoma	lous Bright	Loamy Soils (F	<sup>2</sup> 20)
	Bodies (A6) (LRR P,		Redox Dark					A 153B)		
	cky Mineral (A7) (LR		Depleted Dai					rent Mater		
	esence (A8) (LRR U)		Redox Depre		3)				k Surface (TF12	2)
	ck (A9) <b>(LRR P, T)</b> I Below Dark Surface	· (A11)	Marl (F10) <b>(L</b> Depleted Ocl	•	(MI DA 15	1\	Otner (	Explain in l	Remarks)	
	rk Surface (A12)	(Δ11)	Iron-Mangan				T) <sup>3</sup> Indic:	ators of hyd	drophytic veget	ation and
	airie Redox (A16) <b>(N</b>	ILRA 150A)	_				•	-	ogy must be pr	
	ucky Mineral (S1) (L		Delta Ochric			,		-	ed or problemat	
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) <b>(I</b>	MLRA 150	A, 150B)				
Sandy R	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	right Loan	ny Soils (F	20) <b>(MLR</b>	A 149A, 153C,	153D)		
	face (S7) (LRR P, S	, T, U)					1			
Restrictive L	.ayer (if observed):									
Type:									_	
Depth (inc	ches):		_				Hydric Soil	Present?	Yes	No
Remarks:										