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

Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
- Number of Dominant Species
1 - 4 - 4 - 4 - 4 - 4 - 4
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
- Mat Ale OBL, PACW, of PAC (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species 0 x 1 = 0
FACW species <u>20</u> x 2 = <u>40</u>
FAC species 30 x 3 = 90
FACU species 10 x 4 = 40
UPL species 10 x 5 = 50
Column Totals: <u>70</u> (A) <u>220</u> (B)
-
- Prevalence Index = B/A = 3.1
Hydrophytic Vegetation Indicators:
— ☐ 1 - Rapid Test for Hydrophytic Vegetation
_
— ☐ 3 - Prevalence Index is ≤3.0¹
Problematic Hydrophytic Vegetation ¹ (Explain)
-
¹ Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
_ Definitions of Four Vegetation Strata:
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
more in diameter at breast height (DBH), regardless of
_ height.
■ Sapling/Shrub – Woody plants, excluding vines, less
than 3 in. DBH and greater than 3.28 ft (1 m) tall.
 Herb – All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vine – All woody vines greater than 3.28 ft in
_ height.
_
_
_
_
_
_
- Hydrophytic
Vegetation
Present? Yes No

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Features		. 2		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/4	100					Sandy loam	
-								
-								
-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_			DD 0 T 1		Problematic Hydric Soils ³ :
Histosol	(A1) Dipedon (A2)		Polyvalue Be Thin Dark Su				. —	((A9) (LRR O) ((A10) (LRR S)
Black Hi			Loamy Muck					/ertic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			,		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma	trix (F3)				s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I		Redox Dark		,		☐ (MLRA1	
	icky Mineral (A7) (L		Depleted Dar					nt Material (TF2)
	esence (A8) (LRR lick (A9) (LRR P, T)		Redox Depre	•	3)			ow Dark Surface (TF12) plain in Remarks)
	d Below Dark Surfa		Depleted Oct		(MLRA 1	51)	Other (Exp	Dail ii Remarks)
· = ·	ark Surface (A12)	00 (/ 11 1)	Iron-Mangan				T) ³ Indicator	s of hydrophytic vegetation and
_	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	•	hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 153	3D)
	rface (S7) (LRR P,	S. T. U)	Anomalous B	ngnt Loan	rry Solis (rzu) (IVILK	A 149A, 153C, 15.	36)
	Layer (if observed						Τ	
Type: N/	A		_					
Depth (in	ches):						Hydric Soil Pre	sent? Yes No <u>✓</u>
Remarks:								
No hydric so	I present							

Project/Site: 1461	City/County: Jacks	on/Washington	Sampling Date: 2020-11-18
Applicant/Owner: NextEra		State: Alabama	
Investigator(s):	Section, Township, I		
Landform (hillslope, terrace, etc.): Upland	• •	e, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P 135 Lat:	Essai Folioi (solicave	Long:	Datum: WGS 84
Soil Map Unit Name: UuB			tion:
•	0 V V		
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significantly		re "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology naturally p	oblematic? (If	needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling poin	t locations, transects	important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓ Hydric Soil Present? Yes No _ ✓ Wetland Hydrology Present? Yes No _ ✓ Remarks: Upland sample associated with wetland W2009.	Is the Sampl within a Wet		No✓
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Sparrack Voc	* *
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B	•	Drainage Pat	etated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	
	neres along Living Ro		Vater Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C	6) 🔲 Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aqui	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
		☐ Sphagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (inches			
Water Table Present? Yes No Depth (inches			
Saturation Present? Yes No V Depth (inches		Wetland Hydrology Presen	t? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos	os, previous inspection	ons), if available:	
Remarks: Upland sample - No hydrology present			

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

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2009
20.6 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r) 1.		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
		Total Cov		FACW species 15 x 2 = 30
50% of total cover:	20% of	total cover:		FAC species 15 x 3 = 45
Sapling/Shrub Stratum (Plot size: 30 ft r)	15	,	EAC	FACU species 40 x 4 = 160
1. Liquidambar styraciflua	15		FAC	UPL species 15 x 5 = 75
2. Platanus occidentalis			FACU	Column Totals: 85 (A) 310 (B)
3. Quercus falcata	15	<u> </u>	FACU	
4				Prevalence Index = B/A = 3.6
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
0	45% -	Total Cov		☐ 3 - Prevalence Index is ≤3.0¹
50% of total cover: 23				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)	20 % 01	total cover.		1
1. Rubus trivialis	25	/	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Imperata cylindrica	15		UPL	Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Hart All harbanasis (non woods) plants paradiasa
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				
	40% =	Total Cov	er	
50% of total cover: 20				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3.				
4.				
5.				Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo hydrophytic vegetation present - no other indicators met. 30		ındy bare gı	round	

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of i	ndicators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 5/3	100					Sandy loam		
_									_
l — —									
-									
¹Type: C=C	oncentration D=De	nletion PM=F	Reduced Matrix, M	S=Macked	Sand Gr	aine	² Location: PL:	=Pore Lining, M=Ma	triv
			RRs, unless other			allis.		Problematic Hydri	
Histosol			Polyvalue Be		•	DD S T I		(A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	
Black Hi			Loamy Muck					/ertic (F18) (outside	MI RA 150A B)
	n Sulfide (A4)		Loamy Gleye	-		(0)		Floodplain Soils (F1	
	Layers (A5)		Depleted Ma		/			s Bright Loamy Soils	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)		(MLRA 1		(/
	icky Mineral (A7) (I		Depleted Da					nt Material (TF2)	
	esence (A8) (LRR		Redox Depre	essions (F	8)			ow Dark Surface (Tr	- 12)
	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Exp	olain in Remarks)	-
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
☐ Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	, T) ³ Indicator	rs of hydrophytic veg	etation and
	rairie Redox (A16)					, U)		d hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	C T II)	Anomalous E	right Loar	ny Solls (F20) (MILR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P, Layer (if observed						1		
Type: N/		<i>)</i> •							
			_				Uhardala Call Dan	10 V	No. of
Depth (inc	cnes):		_				Hydric Soil Pre	sent? Yes	_ No <u> √</u>
Remarks: No hydric soi	Inresent								
140 Hydric soi	i present								

Project/Site: 1461 Lowman	City/County: Silas	/Choctaw	Sampling Date: 2020-04-22
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2010
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: SmD		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of you	2 V V N		
Are Vegetation, Soil, or Hydrology significantly		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? ((If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sam	-	/
Wetland Hydrology Present? Yes No _✓	within a We	etland? Yes	No✓
Remarks:			
Upland sample associated with wetlands W2010			
LIVEROL COV			
HYDROLOGY		Canandan, India	to a facilities and of the second second
Wetland Hydrology Indicators:			creeks (R6)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1)		Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	neres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	· ·
	ction in Tilled Soils (C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	: (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Uther (Explain in F	Remarks)	Shallow Aqu	` '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		<u></u> Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inches Water Table Present? Yes No ✓ Depth (inches	· I		
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			it: TesNO
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspect	tions), if available:	
Remarks:			
Hydrology not present			

VE

	Absolute	Dominant	Indicator	Sampling Point: UP201 Dominance Test worksheet:
Free Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. llex opaca	30	✓	FAC	That Are OBL, FACW, or FAC: 2
Quercus alba	15	✓	FACU	Total Number of Deminant
Pinus taeda	5		FAC	Total Number of Dominant Species Across All Strata: 4 (E
k	0			
5.	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A
3.	0			That Ale OBL, FACW, of FAC.
	0			Prevalence Index worksheet:
<u></u>	0			Total % Cover of: Multiply by:
J		Total Cov		OBL species 0 x 1 = 0
25				FACW species $0 x 2 = 0$
50% of total cover: 25	20% of	total cover:	10	FAC species 40 x 3 = 120
Sapling/Shrub Stratum (Plot size: 15 ft r)	45	,	EACH	FACU species 30 x 4 = 120
Juniperus virginiana	_ 15		FACU	UPL species 0 x 5 = 0
llex opaca	5	✓	FAC	
	0			Column Totals: 70 (A) 240
k	0			Prevalence Index = B/A = 3.4
i	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
•	0			2 - Dominance Test is >50%
	0			3 - Prevalence Index is ≤3.0¹
•	20% =	Total Cov	or .	Problematic Hydrophytic Vegetation¹ (Explain)
·	0			be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
3.	0			
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless
5.	0			height.
3.	0			Sapling/Shrub – Woody plants, excluding vines, le
	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•	U			
	0			
3.	0			Herb – All herbaceous (non-woody) plants, regardle
3	0 0			
3 9 10	0 0 0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
3	0 0 0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
0 0 1	0 0 0 0 0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
3	0 0 0 0 0 0 0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
3	0 0 0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
50% of total cover:	0 0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
10.	0 0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
50% of total cover:	0 0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft
3	0 0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height.
10	0 0 0 0 0 0 20% of			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height. Hydrophytic Vegetation
10	0 0 0 0 0 0 0 20% of	total covers	er	Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft height.

US Army Corps of Engineers

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100					Loam		
3-8	10YR 5/4	100					Loam		
8 - 20	7.5YR 4/6	100					Clay loam		
-									
<u> </u>									
	oncentration, D=De					ains.	² Location: PL=P	ore Lining, M=Matri	X.
	Indicators: (Appl	icable to all Li						oblematic Hydric	Soils':
Histosol			Polyvalue Be				. —		
· • • • • • • • • • • • • • • • • • • •	oipedon (A2) istic (A3)		Thin Dark Su Loamy Muck	•			2 cm Muck (A	tic (F18) (outside N	ALRA 150A B)
	en Sulfide (A4)		Loamy Gleye	-		. 0)		odplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(/			Bright Loamy Soils (
	Bodies (A6) (LRR		Redox Dark	Surface (l	- 6)		(MLRA 153	,	
	ıcky Mineral (A7) (Depleted Da					/laterial (TF2)	
	esence (A8) (LRR		Redox Depre		8)			Dark Surface (TF1	2)
	ick (A9) (LRR P, T d Below Dark Surfa	•	Marl (F10) (L Depleted Ocl		(MI DA 1	51)	Other (Explai	in in Remarks)	
	ark Surface (A12)	ace (A11)	Iron-Mangan		•		. T) ³ Indicators of	of hydrophytic veget	tation and
	rairie Redox (A16)	(MLRA 150A)					•	ydrology must be pr	
	lucky Mineral (S1)		Delta Ochric	(F17) (MI	LRA 151)		unless dis	turbed or problema	tic.
	Sleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo			•			
1 1	Matrix (S6) rface (S7) (LRR P	S T III	Anomalous E	sright Loa	my Soils (-20) (WILF	RA 149A, 153C, 153D)	
	Layer (if observed	•					1		
Type:		-,-							
	ches):		_				Hydric Soil Prese	nt? Yes	No_✓_
Remarks:			_				.,		
Hydric soil no	ot present								
									l
									l
									l
									l
									l

Project/Site: 1461 Lowman	city/County: Silas/Choctaw	Sampling Date: 2019-11-13
Applicant/Owner: NextEra	State: Alabama	Sampling Point: UP2011
	Section, Township, Range:	
	ocal relief (concave, convex, none): Convex	Sione (%): 3
Subregion (LRR or MLRA): P Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: SmD	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of year		
Are Vegetation, Soil, or Hydrology significantly of		
Are Vegetation, Soil, or Hydrology naturally prob	olematic? (If needed, explain any answer	rs in Remarks.)
${\bf SUMMARY\ OF\ FINDINGS-Attach\ site\ map\ showing}$	sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓		
Hydric Soil Present? Yes No ✓	Is the Sampled Area	
Wetland Hydrology Present? Yes No _✓	within a Wetland? Yes	No✓
Remarks:		
Upland sample associated with wetland W2011		
LIVEROL COV		
HYDROLOGY	Odolodlo	1 (
Wetland Hydrology Indicators:		tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil (* *
Surface Water (A1) Aquatic Fauna (B13) Mari Deposits (B45)		etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Oc		, ,
		Water Table (C2)
Sediment Deposits (B2)		· ·
	-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (_	
☐ Iron Deposits (B5) ☐ Other (Explain in Re	marks)	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)	<u></u> Sphagnum m	oss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No ✓ _ Depth (inches):		
Water Table Present? Yes No ✓ _ Depth (inches):		
Saturation Present? Yes No ✓ _ Depth (inches): (includes capillary fringe)	Wetland Hydrology Presen	t? Yes No_ <u></u> ✓_
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:	
Remarks: Hydrology not present		

VEGETATION (Four Strata) -

Obstant (District 30 ft r		Dominant		Dominance Test worksheet:
ee Stratum (Plot size: <u>30 ft r</u>) llex opaca	<u>% Cover</u> 30	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Quercus alba	15		FACU	That Are OBL, FACW, or FAC: 2 (A)
Pinus taeda	5		FAC	Total Number of Dominant
	0		TAO	Species Across All Strata: 4 (B)
	0			Percent of Dominant Species
	0			That Are OBL, FACW, or FAC: 50 (A/B
	0			Prevalence Index worksheet:
	0			Total % Cover of: Multiply by:
	50% -	Tatal Car		OBL species $0 x 1 = 0$
50% - 64-4-1 25		= Total Cov		FACW species 0 x 2 = 0
50% of total cover: 25 pling/Shrub Stratum (Plot size: 30 ft r)	20% of	total cover	10	FAC species 40 x 3 = 120
Juniperus virginiana	15	1	FACU	FACU species 30 x 4 = 120
llex opaca	5		FAC	UPL species 0 x 5 = 0
	0			Column Totals: <u>70</u> (A) <u>240</u> (B)
	0			2.4
	0			Prevalence Index = B/A = 3.4
	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
	0			2 - Dominance Test is >50%
	20%	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 10		total cover		Problematic Hydrophytic Vegetation¹ (Explain)
20.4-	20% 01	total cover	. —	
	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0			Definitions of Four Vegetation Strata:
	0			Definitions of Four Vegetation Strata:
	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
	0			more in diameter at breast height (DBH), regardless of height.
	0			
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			
)	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
		Total Car		
E00/ - (1-1-1-1		= Total Cov		
50% of total cover:	20% of	total cover		
oody Vine Stratum (Plot size: 30 ft r)	0			
	0			
	- 0			
	- 0			
	- 0			
				Hydrophytic
		= Total Cov		Vegetation Present? Yes No _ ✓
50% of total cover:	20% of	total cover	:	

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100					Loam		
3-8	10YR 5/4	100					Loam		
8 - 20	7.5YR 4/6	100					Clay loam		
-									
<u> </u>									
	oncentration, D=De					ains.	² Location: PL=P	ore Lining, M=Matri	X.
	Indicators: (Appl	icable to all Li						oblematic Hydric	Soils':
Histosol			Polyvalue Be				. —		
· • • • • • • • • • • • • • • • • • • •	oipedon (A2) istic (A3)		Thin Dark Su Loamy Muck	•			2 cm Muck (A	tic (F18) (outside N	ALRA 150A B)
	en Sulfide (A4)		Loamy Gleye	-		. 0)		odplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(/			Bright Loamy Soils (
	Bodies (A6) (LRR		Redox Dark	Surface (l	- 6)		(MLRA 153	,	
	ıcky Mineral (A7) (Depleted Da					/laterial (TF2)	
	esence (A8) (LRR		Redox Depre		8)			Dark Surface (TF1	2)
	ick (A9) (LRR P, T d Below Dark Surfa	•	Marl (F10) (L Depleted Ocl		(MI DA 1	51)	Other (Explai	in in Remarks)	
	ark Surface (A12)	ace (A11)	Iron-Mangan		•		. T) ³ Indicators of	of hydrophytic veget	tation and
	rairie Redox (A16)	(MLRA 150A)					•	ydrology must be pr	
	lucky Mineral (S1)		Delta Ochric	(F17) (MI	LRA 151)		unless dis	turbed or problema	tic.
	Sleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo			•			
1 1	Matrix (S6) rface (S7) (LRR P	S T III	Anomalous E	sright Loa	my Soils (-20) (WILF	RA 149A, 153C, 153D)	
	Layer (if observed	•					1		
Type:		-,-							
	ches):		_				Hydric Soil Prese	nt? Yes	No_✓_
Remarks:			_				.,		
Hydric soil no	ot present								
									l
									l
									l
									l
									l

Project/Site: 1461 Lowman	City/County: Silas	s/Choctaw	Sampling Date: 2019-11-18
Applicant/Owner: NextEra	,	State: Alabama	Sampling Point: UP2012
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: SmD		Long. NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of you	2 V V		
Are Vegetation, Soil, or Hydrology significantly			present? YesNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	, sampling poi	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sam	-	
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a W	etland? Yes	No✓
Remarks:			
Upland sample associated with wetland W2012			
LIVEROL COV			
HYDROLOGY		O a sendent la dia	the second secon
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1)			getated Concave Surface (B8) atterns (B10)
Saturation (A3) Hydrogen Sulfide (Moss Trim L	
	neres along Living F		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	
	ction in Tilled Soils (/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in F	Remarks)	Shallow Aqu	ıitard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	l Test (D5)
Water-Stained Leaves (B9)		Sphagnum i	moss (D8) (LRR T, U)
Field Observations:	_		
Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches		Wetter dilledeles Beece	man van Na d
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)):	Wetland Hydrology Prese	nt? Yes No <u></u> ✓
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	tions), if available:	
Barradas			
Remarks: Hydrology not present			

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

Sampling Point: UP2012

Tree Stratum (Plot size: 30 ft r)		Dominant		Dominance Test worksheet:		
1. Ilex opaca	30	Species? ✓	FAC	Number of Dominant Species		
2 Quercus alba	15		FACU	That Are OBL, FACW, or FAC: 2 (A)	1	
3. Pinus taeda	5		FAC	Total Number of Dominant		
	- 5		FAC	Species Across All Strata: 4 (B)	J	
4				Percent of Dominant Species		
5	_ 0			That Are OBL, FACW, or FAC: 50 (A/	B)	
6	0			Prevalence Index worksheet:	_	
7	0					
8	0					
	50% =	Total Cov	er	OBE species X 1 =		
50% of total cover: 25	20% of	total cover:	10	FACW species 0 x 2 = 0		
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 40 x 3 = 120		
1. Juniperus virginiana	15	✓	FACU	FACU species $\frac{30}{2}$ $\times 4 = \frac{120}{2}$		
2. Ilex opaca	5	✓	FAC	UPL species $0 \times 5 = 0$		
3.	0			Column Totals: <u>70</u> (A) <u>240</u> (E	3)	
4.	0			B		
5.	0			Prevalence Index = B/A = 3.4		
6	0			Hydrophytic Vegetation Indicators:		
	0			1 - Rapid Test for Hydrophytic Vegetation		
7	0			2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.0¹		
10		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)		
	20% of	total cover:	4			
Herb Stratum (Plot size: 30 ft r)	•			¹ Indicators of hydric soil and wetland hydrology must		
1	0			be present, unless disturbed or problematic.		
2	0			Definitions of Four Vegetation Strata:		
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or	
4	0			more in diameter at breast height (DBH), regardless of height.		
5	0					
6.	0			Sapling/Shrub – Woody plants, excluding vines, less	8	
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8.	0			North All borbonous (non-viscotis) plants, regardless		
9.	0			Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	is	
10.	0					
11.	0			Woody vine – All woody vines greater than 3.28 ft in	J	
	0			height.		
12						
		= Total Cov				
50% of total cover:	20% of	total cover:				
Woody Vine Stratum (Plot size: 30 ft r)	0					
1	0					
2						
3	0					
4	0					
5	0			Hydrophytic		
		Total Cov	er	Vegetation		
50% of total cover:	20% of	total cover		Present? Yes No		
Remarks: (If observed, list morphological adaptations bel				1	_	
Hydrophytic vegetation not present	,					

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of ind	icators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-3	10YR 4/3	100					Loam		
3 - 8	10YR 5/4	100					Loam		
8 - 20	7.5YR 4/6	100					Clay loam		
-									_
									_
									_
									
-									
	oncentration, D=De					ains.		ore Lining, M=Matri	
l <u> </u>	Indicators: (Appli	cable to all Li	_					oblematic Hydric	Soils":
Histosol	(A1) pipedon (A2)		Polyvalue Be				U)		
	stic (A3)		Loamy Muck					tic (F18) (outside l	MLRA 150A.B)
	n Sulfide (A4)		Loamy Gleye	-		. •,		odplain Soils (F19)	
	Layers (A5)		Depleted Ma					right Loamy Soils (
	Bodies (A6) (LRR		Redox Dark				(MLRA 153	,	
	icky Mineral (A7) (L		Depleted Da					Material (TF2)	•
	esence (A8) (LRR ick (A9) (LRR P, T)		Redox Depre		8)			Dark Surface (TF1 in in Remarks)	2)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)	Other (Explain	ii iii Remarks)	
	ark Surface (A12)	,	Iron-Mangan				T) ³ Indicators o	of hydrophytic vege	tation and
	rairie Redox (A16)		Umbric Surfa	ce (F13)	(LRR P, T	, U)	wetland h	ydrology must be p	resent,
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					turbed or problema	tic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 153D	۸.	
	rface (S7) (LRR P,	S. T. U)	Anomalous L	ongin Loa	illy Solls (rzo) (WEN	(A 149A, 199C, 199D	,	
	Layer (if observed	•							
Type:		•	_						
Depth (in	ches):		_				Hydric Soil Prese	nt? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461	City/County: Jacks	on/Washington	Sampling Date: 2019-11-18
Applicant/Owner: NextEra		State: Alabama	
Investigator(s)	Section, Township, F		
Landform (hillslope, terrace, etc.): Upland	•	e, convex, none): Convex	Slope (%): 2
D 405		Long:	Slope (%). 2 Datum: WGS 84
Soil Map Unit Name: RnE			tion:
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant	y disturbed? Ar	re "Normal Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If	needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling poin	t locations, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	ls the Sampl	ed Area	
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wet	land? Yes	No <u>✓</u>
Remarks:	·		
Upland sample associated with wetland W2013			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	
Surface Water (A1) Aquatic Fauna (B			etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	•	Drainage Pat	
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	, ,
	heres along Living Ro		Water Table (C2)
Sediment Deposits (B2) Presence of Red	iced Iron (C4)	Crayfish Burn	ows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Red	ction in Tilled Soils (C	6) 🔲 Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in	Remarks)	Shallow Aqui	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
☐ Water-Stained Leaves (B9)		<u></u> Sphagnum m	loss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ _ Depth (inche	I		
Water Table Present? Yes No✓ Depth (inche			
Saturation Present? Yes No ✓ _ Depth (inche (includes capillary fringe)	s): \	Wetland Hydrology Presen	t? Yes No <u></u>
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspectio	ons), if available:	
Remarks: Upland sample - No hydrology present			
Spland sample - No hydrology present			

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

Sampling Point: UP2013 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 2 (A) **Total Number of Dominant** 4 ____ (B) Species Across All Strata: **Percent of Dominant Species** ____ (A/B) That Are OBL, FACW, or FAC: 50 6._____ Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species = Total Cover **FACW** species 10 x 2 = 20 50% of total cover: _____ 20% of total cover: ____ 20 x 3 = 60 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r) FACU species 75 x 4 = 3001. Rubus trivialis x = 0**UPL** species Column Totals: 105 (A) = B/A = 3.6Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 15% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 8 20% of total cover: 3 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must 1 Rubus trivialis **FACU** be present, unless disturbed or problematic. 2. Andropogon virginicus 20 FAC **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 80% = Total Cover 50% of total cover: 40 20% of total cover: 16 Woody Vine Stratum (Plot size: 30 ft r) 1. Vitis palmata 10 ✓ FACW Hydrophytic 10% __= Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 5 20% of total cover: 2 Remarks: (If observed, list morphological adaptations below). hydrophytic vegetation present - no other indicators met. 30 percent sandy bare ground

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the ir	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 20	5Y 5/3	_ <u>100</u> _					Sandy loam	
-								
l — -								
_								_
¹Type: C=C	oncentration, D=De	nletion PM=E	Paducad Matrix MS	S=Macked	Sand Gr	aine	² Location: PL:	=Pore Lining, M=Matrix.
	Indicators: (Appli					airis.		Problematic Hydric Soils ³ :
l <u> </u>		cable to all L	_			DD C T I		k (A9) (LRR O)
Histosol	oipedon (A2)		Polyvalue Be Thin Dark Su				. —	k (A10) (LRR S)
Black Hi			Loamy Muck					Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye			(0)		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat		2)			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P. T. U)	Redox Dark		6)		(MLRA1	
_	icky Mineral (A7) (L		Depleted Dar		•			nt Material (TF2)
	esence (A8) (LRR		Redox Depre					ow Dark Surface (TF12)
	ıck (A9) (LRR P, T)		Marl (F10) (L	•	,			olain in Remarks)
Depleted	d Below Dark Surfa	ce (A11)	Depleted Och		MLRA 1	51)		•
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (LRR O, P,	T) ³ Indicator	rs of hydrophytic vegetation and
	rairie Redox (A16) (Umbric Surfa	ce (F13) (I	LRR P, T	, U)	wetland	d hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo			•	•	
	Matrix (S6)		Anomalous B	right Loan	ny Soils (F20) (MLR	RA 149A, 153C, 15	3D)
	rface (S7) (LRR P,							
1	Layer (if observed) ^):						
Type: <u>N//</u>			_				1	
Depth (inc	ches):		_				Hydric Soil Pre	esent? Yes No
Remarks:	II mraaant							
No hydric soi	ii present							

Project/Site: 1461	City/County: _Jackson/Washington Samplii	ng Date: 2019-11-22
Applicant/Owner: NextEra	State: Alabama Samplin	
Investigator(s)	Section, Township, Range:	.g · o
Landform (hillslope, terrace, etc.): Upland		Slope (%): 2
Subregion (LRR or MLRA): P 135 Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: BnB	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of y		
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present?	YesNo
Are Vegetation, Soil, or Hydrology naturally pr	blematic? (If needed, explain any answers in Rer	narks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, impo	rtant features, etc.
Listenberg Verstein Brooks		
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area	
Wetland Hydrology Present? Yes No ✓	within a Wetland? Yes No	·
Remarks:		
Upland sample associated with wetland W2014 and W2015		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (mir	nimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B) Sparsely Vegetated (Concave Surface (B8)
High Water Table (A2) High Warl Deposits (B1		· ·
Saturation (A3)	- · · · · · · · · · · · ·	
	eres along Living Roots (C3) Dry-Season Water Ta	
Sediment Deposits (B2)	_ ·	,
	ion in Tilled Soils (C6) Saturation Visible on	
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in I	· · · _ · · ·	· /
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5	
Water-Stained Leaves (B9)	Sphagnum moss (D8	,
Field Observations:		
Surface Water Present? Yes No Depth (inches	:	
Water Table Present? Yes No ✓ Depth (inches	<u> </u>	
Saturation Present? Yes No ✓ Depth (inches	Wetland Hydrology Present? Yes	š No_ <u>√</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographics)	s. previous inspections), if available:	
The state of the s	,, ,, , , , , , , , , , , , , , , , , ,	
Remarks:		
Upland sample - No hydrology present		

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

50% of total cover: ____

50% of total cover: 20

_____15

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

Woody Vine Stratum (Plot size: 30 ft r)

2. Rubus trivialis 15

1. Quercus falcata

1. Rubus trivialis

1. Vitis palmata

2. Andropogon virginicus

3. Imperata cylindrica

Absolute Dominant Indicator

% Cover Species? Status

___ = Total Cover

____ 20% of total cover: ____

40% = Total Cover 20% of total cover: 8

50% ___ = Total Cover

10% ___ = Total Cover

15

50% of total cover: 25 20% of total cover: 10

50% of total cover: 5 20% of total cover: 2

FACU

FAC

	Sampling Point: UP2014/UP2015
Dominance Test works	heet:
Number of Dominant Spo That Are OBL, FACW, or	
Total Number of Domina Species Across All Strata	
Percent of Dominant Spe That Are OBL, FACW, or	
Prevalence Index works	sheet:
Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
10	$x = \frac{1}{20}$
4.5	
	x 3 = 45
FACU species 60	x 4 = <u>240</u>
UPL species 15	x 5 = <u>75</u>
Column Totals: 100	(A) <u>380</u> (B)
	2.0
	= B/A = <u>3.8</u>
Hydrophytic Vegetation	ı Indicators:
1 - Rapid Test for Hy	ydrophytic Vegetation
2 - Dominance Test	
3 - Prevalence Index	
Problematic Hydropi	hytic Vegetation¹ (Explain)
¹ Indicators of hydric soil abe present, unless distur	and wetland hydrology must bed or problematic.
Definitions of Four Veg	etation Strata:
	cluding vines, 3 in. (7.6 cm) or st height (DBH), regardless of
Sapling/Shrub – Woody than 3 in. DBH and great	plants, excluding vines, less ter than 3.28 ft (1 m) tall.
Herb – All herbaceous (r of size, and woody plants	non-woody) plants, regardless s less than 3.28 ft tall.
Woody vine – All woody height.	vines greater than 3.28 ft in
Hydrophytic Vegetation Present? Yes	No <u></u> ✓
1	

Remarks:	(If observed,	list morpholo	gical adaptations	below).		
ydrophytic	vegetation p	resent - no o	ther indicators me	t. 30 percent	sandy bare g	ground

SOIL Sampling Point: UP2014/UP2015

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator o	or confirm	n the absence of	indicato	ors.)	
Depth	Matrix			x Feature:						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	7.5YR 5/4	100					Sandy loam			
_										
-										
										
-										
¹Type: C=C	oncentration, D=Dep	oletion RM=R	educed Matrix M	S=Masked	Sand Gra	ine	² Location: PL	=Pore I	ining, M=Matri	iv
	ndicators: (Applic					1113.	Indicators for			
Histosol		able to all El	Polyvalue Be			PRSTI			-	
	pipedon (A2)		Thin Dark St				2 cm Muc			
Black Hi			Loamy Muck							MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			O ,				(LRR P, S, T)
	Layers (A5)		Depleted Ma		/				Loamy Soils (
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		6)		(MLRA	_	,	,
5 cm Mu	cky Mineral (A7) (Ll	RR P, T, U)	Depleted Da				Red Pare		ial (TF2)	
Muck Pr	esence (A8) (LRR L	J)	Redox Depre	essions (F	B)			llow Dark	Surface (TF1	2)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (I	LRR U)			Other (Ex	plain in F	Remarks)	
	l Below Dark Surfac	ce (A11)	Depleted Oc				•			
	rk Surface (A12)		Iron-Mangar				•		Irophytic vege	
	airie Redox (A16) (I					U)		-	ogy must be p	
_	lucky Mineral (S1) (LRR O, S)	Delta Ochric			A 450D)		disturbe	d or problema	itic.
	leyed Matrix (S4)		Reduced Ve							
	edox (S5) Matrix (S6)		Piedmont Flo		, ,		+9A) RA 149A, 153C, 15	53D)		
	face (S7) (LRR P,	S T III	Allomaious i	ongni Loai	ily Solis (F	20) (WILK	(A 149A, 193C, 18	330)		
	ayer (if observed)						T			
Type: N/										
	ches):		_				Hydric Soil Pro	esent?	Yes	No_✓
Remarks:							Tiyano con Ti			
No hydric soi	I present									
	•									
										l
										l
										l

Project/Site: 1461	City/County:Jackson/Washington Sampling Date: _2019-11-22
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2016
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 2
D 405	
· · · · · · · · · · · · · · · · · · ·	
Soil Map Unit Name: PSF	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significant	ntly disturbed? Are "Normal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, et
Hydrophytic Vegetation Present? Yes No _ ✓ Hydric Soil Present? Yes No _ ✓ Wetland Hydrology Present? Yes No _ ✓	Is the Sampled Area within a Wetland? Yes No✓
Remarks: Upland sample associated with wetland W2016.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1)	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizos	e Odor (C1)
Sediment Deposits (B2) Presence of Red	· · · · · · · · · · · · · · · · · · ·
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	_
Iron Deposits (B5) Other (Explain in	n Remarks) Shallow Aquitard (D3)
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inche	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No ✓ Depth (inche (includes capillary fringe)	es): Wetland Hydrology Present? Yes No _✓
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks: Upland sample - No hydrology present	
Opiand Sample - No flydiology present	

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

Sampling Point: UP2016 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r % Cover Species? Status **Number of Dominant Species** 1. Pinus taeda That Are OBL, FACW, or FAC: 4 (A) **Total Number of Dominant** 7 (B) Species Across All Strata: **Percent of Dominant Species** That Are OBL, FACW, or FAC: 57 (A/B) 6._____ Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species 10% = Total Cover 10 x 2 = 20 **FACW** species 50% of total cover: 5 20% of total cover: 2 25 x 3 = 75 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r) FACU species 60 x 4 = 240 **FACU** 1. Quercus falcata x = 0**UPL** species 2. Rubus trivialis 15 **FACU** Column Totals: 95 10 (A) 3. Pinus taeda FAC = B/A = 3.5Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 50% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 25 20% of total cover: 10 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must 1 Rubus trivialis **FACU** be present, unless disturbed or problematic. 2. Andropogon virginicus 5 **FAC Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 4. ______ ___ ___ ____ ____ ____ more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 25% = Total Cover 50% of total cover: 13 20% of total cover: 5 Woody Vine Stratum (Plot size: 30 ft r) 1. Vitis palmata 10 ✓ FACW Hydrophytic 10% __= Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 5 ___ 20% of total cover: 2 Remarks: (If observed, list morphological adaptations below). hydrophytic vegetation present - no other indicators met. 30 percent sandy bare ground

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Features			_	_
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	2.5Y 5/3	100					Sandy loam	
-								
-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_					Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				. —	k (A9) (LRR O) k (A10) (LRR S)
Black Hi			Loamy Muck					√ertic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			. •,		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,			s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I		Redox Dark		,		(MLRA 1	
	icky Mineral (A7) (L		Depleted Dar					nt Material (TF2)
	esence (A8) (LRR		Redox Depre	•	3)			ow Dark Surface (TF12) plain in Remarks)
_	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Oct		(MIRA 1	51)	Other (Exp	plain in Remarks)
. =	ark Surface (A12)	OC (A11)	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation and
_	rairie Redox (A16) ((MLRA 150A)	=		. , .		•	d hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 15	3D)
	rface (S7) (LRR P,	S. T. U)	Anomalous B	ngnt Loan	rry Solis (rzu) (IVILK	A 149A, 153C, 15	30)
	Layer (if observed						T	
Type: N/	A		_					
Depth (inc	ches):						Hydric Soil Pre	esent? Yes No _✓
Remarks:								
No hydric soi	I present							

Project/Site: 1461	City/County: Jacks	on/Washington	Sampling Date: 2019-11-20
Applicant/Owner: NextEra		State: Alabama	
Investigator(s):	Section, Township, I		
Landform (hillslope, terrace, etc.): Upland		e, convex, none): Convex	Slone (%): 2
Subregion (LRR or MLRA): P 135 Lat:	Local Teller (colleave	Long:	Datum: WGS 84
Soil Map Unit Name: ByD2		_	
•	- · · · ·	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly		re "Normal Circumstances" p	resent? Yes <u></u> √ No
Are Vegetation, Soil, or Hydrology naturally pro-	oblematic? (If	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✓			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Westend Hydrology Present?	Is the Sampl		,
Wetland Hydrology Present? Yes No ✓	within a Wet	tland? Yes	No <u>√</u>
Remarks:			
Upland sample associated with wetland W2017.			
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (* *
Surface Water (A1) Aquatic Fauna (B1			etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) Output (A2)		Drainage Pat	, ,
Saturation (A3) Hydrogen Sulfide (C) Water Marks (B1) Oxidized Rhizosph	odor (C1) ieres along Living Ro	Moss Trim Li	Nater Table (C2)
Sediment Deposits (B2) Presence of Reduce		Crayfish Burn	· ·
	tion in Tilled Soils (C		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic	
☐ Iron Deposits (B5) ☐ Other (Explain in F	temarks)	☐ Shallow Aqui	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	loss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ _ Depth (inches			
Water Table Present? Yes No _ ✓ Depth (inches	· I	W. 41 111 - 1 - 1 B	10 1/2
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)): '	Wetland Hydrology Presen	t? Yes No_ <u></u> ✓_
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspection	ons), if available:	
Remarks: Upland sample - No hydrology present			

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

Sampling Point: UP2017 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r % Cover Species? Status **Number of Dominant Species** 1. Pinus taeda That Are OBL, FACW, or FAC: 3 ____ (A) **Total Number of Dominant** 6 <u>(B)</u> Species Across All Strata: **Percent of Dominant Species** ____(A/B) That Are OBL, FACW, or FAC: 50 Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species 10% = Total Cover 10 ___ x 2 = 20 **FACW** species 50% of total cover: 5 20% of total cover: 2 30 x 3 = 90 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r) FACU species 65 x 4 = 260 1. Quercus falcata **FACU** $_{x 5} = 0$ **UPL** species 20 **FACU** 2. Rubus trivialis Column Totals: 105 (A) 3. Ilex opaca 10 **FAC** = B/A = 3.5Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 55% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 28 20% of total cover: 11 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must 1 Rubus trivialis **FACU** be present, unless disturbed or problematic. 2. Andropogon virginicus 10 **FAC Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 30% = Total Cover 50% of total cover: 15 20% of total cover: 6 Woody Vine Stratum (Plot size: 30 ft r) 1. Vitis palmata 10 ✓ FACW Hydrophytic 10% __= Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 5 ___ 20% of total cover: 2 Remarks: (If observed, list morphological adaptations below). hydrophytic vegetation present - no other indicators met. 30 percent sandy bare ground

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Features		. 2		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/4	100					Sandy loam	
-								
-								
-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_			DD 0 T 1		Problematic Hydric Soils ³ :
Histosol	(A1) Dipedon (A2)		Polyvalue Be Thin Dark Su				. —	((A9) (LRR O) ((A10) (LRR S)
Black Hi			Loamy Muck					/ertic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			,		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma	trix (F3)				s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I		Redox Dark		,		☐ (MLRA1	
	icky Mineral (A7) (L		Depleted Dar					nt Material (TF2)
	esence (A8) (LRR lick (A9) (LRR P, T)		Redox Depre	•	3)			ow Dark Surface (TF12) plain in Remarks)
	d Below Dark Surfa		Depleted Oct		(MLRA 1	51)	Other (Exp	Dail ii Remarks)
· = ·	ark Surface (A12)	00 (/ 11 1)	Iron-Mangan				T) ³ Indicator	s of hydrophytic vegetation and
_	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	•	hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 153	3D)
	rface (S7) (LRR P,	S. T. U)	Anomalous B	ngnt Loan	rry Solis (rzu) (IVILK	A 149A, 153C, 15.	36)
	Layer (if observed						Τ	
Type: N/	A		_					
Depth (in	ches):						Hydric Soil Pre	sent? Yes No <u>✓</u>
Remarks:								
No hydric so	I present							

Project/Site: 1461	City/County: Jac	ckson/Washington	Sampling Date: 2019-11-20
Applicant/Owner: NextEra		State: Alabama	
Investigator(s)	_ Section, Townsh	ip, Range:	
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P 135 La		Long:	Datum: WGS 84
Soil Map Unit Name: ByB			ation:
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	No (If no, explain in R	temarks.)
Are Vegetation, Soil, or Hydrology signature.	gnificantly disturbed?	Are "Normal Circumstances"	present? YesNo
Are Vegetation, Soil, or Hydrology na		(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s		oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	' ✓ Is the Sai	mpled Area	/
Wetland Hydrology Present? Yes No	within a \	Wetland? Yes	No✓
Remarks:			
Upland sample associated with wetland W2018			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all the		Surface Soil	
	Fauna (B13)		getated Concave Surface (B8)
	posits (B15) (LRR U)	Drainage Pa	
	n Sulfide Odor (C1) Rhizospheres along Living	Moss Trim L	Water Table (C2)
1 	e of Reduced Iron (C4)	Crayfish Bur	
	ron Reduction in Tilled Soils		isible on Aerial Imagery (C9)
	ck Surface (C7)	<u> </u>	Position (D2)
	xplain in Remarks)	Shallow Aqu	()
Inundation Vis ble on Aerial Imagery (B7)	,	FAC-Neutral	` '
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No✓ Dep			
Water Table Present? Yes No✓ Dep			
Saturation Present? Yes No _✓ Dep (includes capillary fringe)	th (inches):	Wetland Hydrology Preser	nt? YesNo_✓
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspe	ctions), if available:	
Remarks:			
Upland sample - No hydrology present			

names of plants. Sampling Point: UP2018		of plant	GETATION (Four Strata) – Use scientific na
Absolute Dominant Indicator <u> </u>			e Stratum (Plot size: 30 ft r)
5 FACU That Are OBL, FACW, or FAC: 2 (A)	<u> </u>		Quercus falcata
·			
Percent of Dominant Species			
· · · · · · · · · · · · · · · · · · ·			
Prevalence Index worksheet:			
lotal % Cover of: Multiply by:			
	al Cove	<u>6</u> = To	
20% of total cover: 5	cover: _	20% of tota	
EACH EACH species 65 $VA = 260$, ,		ling/Shrub Stratum (Plot size: 30 ft r)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Quercus falcata Rubus trivialis
Column Totals: 80 (A) 295 (B)			
40% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain)	al Cove	<u>%</u> = To	
0 20% of total cover: 8	cover:	20% of tota	50% of total cover: 20
20 ✓ FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	/)	<u>b Stratum</u> (Plot size: <u>30 ft r</u>) Rubus trivialis
5			Rubus trivialis Andropogon virginicus
Tiree - woody plants, excluding vines, o in. (7.0 cm) of			
, (, , , , , , , , , , , , , , , , ,			
of size, and woody plants less than 3.28 ft tall.			
Woody ville – All woody villes greater than 3.26 ft in			
height.			
25% = Total Cover	al Cove	% = T	
			50% of total cover: <u>13</u>
<u> </u>			ody Vine Stratum (Plot size: 30 ft r)
10	<u> </u>		/itis palmata
			
Hydrophytic			
Brosent2 Ves No V			
20% of total cover: 2 17656111	cover:	20% of tota	
10% = Total Cover Vegetation			50% of total cover: 5

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Features			_	_
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	2.5Y 5/3	100					Sandy loam	
-								
-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_					Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				. —	k (A9) (LRR O) k (A10) (LRR S)
Black Hi			Loamy Muck					√ertic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			. •,		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,			s Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I		Redox Dark		,		(MLRA 1	
	icky Mineral (A7) (L		Depleted Dar					nt Material (TF2)
	esence (A8) (LRR		Redox Depre	•	3)			ow Dark Surface (TF12) plain in Remarks)
_	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Oct		(MIRA 1	51)	Other (Exp	plain in Remarks)
. =	ark Surface (A12)	OC (A11)	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation and
_	rairie Redox (A16) ((MLRA 150A)	=		. , .		•	d hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 15	3D)
	rface (S7) (LRR P,	S. T. U)	Anomalous B	ngnt Loan	rry Solis (rzu) (IVILK	A 149A, 153C, 15	30)
	Layer (if observed						T	
Type: N/	A		_					
Depth (inc	ches):						Hydric Soil Pre	esent? Yes No _✓
Remarks:								
No hydric soi	I present							

Project/Site: 1461	City/Co	ounty: Jackson/Wash	nington	Sampling Date: 2019-11-22
Applicant/Owner: NextEra				Sampling Point: UP2019
Investigator(s):	Section	n, Township, Range:		
Landform (hillslope, terrace, etc.): Upland				Slope (%): 2
Subregion (LRR or MLRA): P 135	Lat:	_ Long:		Datum: WGS 84
Soil Map Unit Name: PSF	Lat	_ Long.		tion:
Are climatic / hydrologic conditions on the site typical	for this time of year? Ve	se ✓ No		
Are Vegetation, Soil, or Hydrology	_			oresent? YesNo
			•	
Are Vegetation, Soil, or Hydrology			explain any answe	•
SUMMARY OF FINDINGS – Attach site	map showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No 🗸	Is the Sampled Area		,
Wetland Hydrology Present? Yes	No <u> </u>	within a Wetland?	Yes	No✓
Remarks:				
Upland sample associated with wetland W2019.				
LIVEROLOGY				
HYDROLOGY			Cocondon, Indian	toro (minimum of turo roquirod)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; che	ack all that anniv)		Surface Soil	tors (minimum of two required)
	quatic Fauna (B13)			getated Concave Surface (B8)
1 	larl Deposits (B15) (LRR	III	Drainage Pat	•
	lydrogen Sulfide Odor (C		Moss Trim Li	
	xidized Rhizospheres ale	*		Water Table (C2)
	resence of Reduced Iron		Crayfish Burn	
1 	ecent Iron Reduction in			sible on Aerial Imagery (C9)
	hin Muck Surface (C7)		Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ ○	ther (Explain in Remarks	3)	Shallow Aqui	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:				
	Depth (inches):			
1	Depth (inches):	I		
Saturation Present? Yes No _✓ (includes capillary fringe)	Depth (inches):	Wetland I	Hydrology Presen	t? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring	y well, aerial photos, prev	ious inspections), if ava	ailable:	
Remarks: Upland sample - No hydrology present				

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2019
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Quercus falcata	10	- ✓	FACU	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 7 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 29 (A/B)
6				Brown Landau wan kabaata
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	10% =	= Total Cov	er er	OBL species $0 \times 1 = 0$
50% of total cover: 5	20% of	total cover	2	FACW species 10 $x = 20$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 10 x 3 = 30
1. Quercus falcata	25	✓	FACU	FACU species 70 x 4 = 280
2. Rubus trivialis	15	✓	FACU	UPL species 20 x 5 = 100
3.				Column Totals: <u>110</u> (A) <u>430</u> (B)
4				Prevalence Index = B/A = 3.9
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				
8.				2 - Dominance Test is >50%
0	40% -	Total Cov	/or	☐ 3 - Prevalence Index is ≤3.0¹
50% of total cover: 20				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)	20% 01	total cover		
1. Imperata cylindrica	20	1	UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus trivialis	20		FACU	
3. Andropogon virginicus	10		FAC	Definitions of Four Vegetation Strata:
•				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 25	20% of	total cover	: 10	
Woody Vine Stratum (Plot size: 30 ft r)				
_{1.} Vitis palmata	10		FACW	
2				
3				
4				
5				Hydrophytic
	10% =	Total Cov	er er	Vegetation
50% of total cover: 5	20% of	total cover	: 2	Present? Yes No✓
Remarks: (If observed, list morphological adaptations believed)				
hydrophytic vegetation present - no other indicators met. 3		indy bare g	round	

Profile Description: (Describe to	the depth needed to doc	ument the indicator o	or confirm the absen	ce of indicators.)
Depth <u>Matrix</u>		dox Features		
	% Color (moist)	<u>% Type¹</u>	Loc ² Texture	Remarks
0 - 20 10YR 4/4	100		Sandy loan	<u> </u>
				_
				_
-				
¹ Type: C=Concentration, D=Deple	etion, RM=Reduced Matrix.	MS=Masked Sand Gra	ins. ² Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applical				rs for Problematic Hydric Soils ³ :
Histosol (A1)	_	Below Surface (S8) (LF		Muck (A9) (LRR O)
Histic Epipedon (A2)		Surface (S9) (LRR S, 1		Muck (A10) (LRR S)
Black Histic (A3)		cky Mineral (F1) (LRR		uced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)		yed Matrix (F2)	L Pied	mont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted N		L Anor	malous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P,	_	k Surface (F6)		LRA 153B)
5 cm Mucky Mineral (A7) (LRF		ark Surface (F7)		Parent Material (TF2)
Muck Presence (A8) (LRR U)		ressions (F8)		Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface	Mari (F10)	(LRR U) Ochric (F11) (MLRA 15		er (Explain in Remarks)
Thick Dark Surface (A12)		anese Masses (F12) (L		dicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MI		rface (F13) (LRR P, T,		vetland hydrology must be present,
Sandy Mucky Mineral (S1) (LF		ic (F17) (MLRA 151)		nless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced V	ertic (F18) (MLRA 150	A, 150B)	
Sandy Redox (S5)		Floodplain Soils (F19) (•	
Stripped Matrix (S6)		Bright Loamy Soils (F	20) (MLRA 149A, 153	3C, 153D)
Dark Surface (S7) (LRR P, S,	T, U)			
Restrictive Layer (if observed):				
Type: N/A				
Depth (inches):			Hydric So	oil Present? Yes No✓
Remarks: No hydric soil present				
No nyanc son present				

Project/Site: 1461	City/County: Jackson/Washi	ngton	Sampling Date: 2019-11-22
Applicant/Owner: NextEra			Sampling Point: UP2020/UP2021
Investigator(s):	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, n	one). Convex	Slope (%): 2
Subregion (LRR or MLRA): P 135 Lat:	Long:	ono):	Datum: WGS 84
Soil Map Unit Name: LeA	Long.	NIVA/I eleccifica	
•	- V V V V	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significant		Circumstances" p	resent? Yes <u></u> No
Are Vegetation, Soil, or Hydrology naturally p	blematic? (If needed, ex	plain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	sampling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓ Hydric Soil Present? Yes No _ ✓ Wetland Hydrology Present? Yes No _ ✓ Remarks: Upland sample associated with wetland W2020 and W2021.	Is the Sampled Area within a Wetland?	Yes	No
HYDROLOGY			
Wetland Hydrology Indicators:	<u> </u>	_	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		Surface Soil	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B			etated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Drainage Pat Moss Trim Li	
	eres along Living Roots (C3)	_	Water Table (C2)
Sediment Deposits (B2)		Crayfish Burr	
	ion in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Uther (Explain in	emarks)	Shallow Aqui	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)	ļ	FAC-Neutral	` '
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ _ Depth (inche Water Table Present? Yes No ✓ _ Depth (inche	• • • • • • • • • • • • • • • • • • •		
Water Table Present? Yes No _ ✓ Depth (inche Saturation Present? Yes No _ ✓ Depth (inche	l l	drology Procon	t? Yes No ✓
(includes capillary fringe)		•	tr res No_
Describe Recorded Data (stream gauge, monitoring well, aerial pho	s, previous inspections), if availa	able:	
Remarks: Upland sample - No hydrology present			

VEGETATION (Four Strata) – Use scientific names of pla
--

Sampling Point: UP2020/UP2021

T 01 1 (D) 1 1 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r 1.		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 5 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
				That Are OBL, FACW, or FAC: 40 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species $0 x 1 = 0$
		= Total Cov		FACW species 10 x 2 = 20
50% of total cover:	20% of	total cover		FAC species 10 x 3 = 30
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 60 x 4 = 240
1. Quercus falcata			FACU	
2. Rubus trivialis	15	✓	FACU	
3				Column Totals: <u>80</u> (A) <u>290</u> (B)
4				Prevalence Index = B/A = 3.6
5.				
6.				
7				_
				2 - Dominance Test is >50%
8	40% =	Total Car		3 - Prevalence Index is ≤3.0¹
20				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	0	
Herb Stratum (Plot size: 30 ft r)	00			¹ Indicators of hydric soil and wetland hydrology must
1. Rubus trivialis	20		FACU	be present, unless disturbed or problematic.
2. Andropogon virginicus	10		FAC	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	<u>30%</u> :	= Total Cov	er	
50% of total cover: 15	20% of	total cover	6	
Woody Vine Stratum (Plot size: 30 ft r)				
1. Vitis palmata	10	_ ✓	FACW	
2				
3.				
4.				
5				
·	10% :	Total Cov	· · ·	Hydrophytic Vegetation
50% of total cover: 5		total cover		Present? Yes No
		total cover		
Remarks: (If observed, list morphological adaptations be		ndu bara a	round	
hydrophytic vegetation present - no other indicators met. 3	oo percent sa	indy bare g	round	

SOIL Sampling Point: UP2020/UP2021

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			x Features		. 2			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 4/3	100					Sandy loam		
-									
									_
									_
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.	
	Indicators: (Appli							Problematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) (L	.RR S, T, L	J) 🔲 1 cm Muck	(A9) (LRR O)	
Histic Ep	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	stic (A3)		Loamy Mucky			R O)		ertic (F18) (outside MLRA 150)	
	n Sulfide (A4)		Loamy Gleye		F2)			oodplain Soils (F19) (LRR P, S	, T)
	d Layers (A5)	D T 11)	Depleted Mat		(0)			Bright Loamy Soils (F20)	
	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S Depleted Dar	•	,		(MLRA 15	Material (TF2)	
	esence (A8) (LRR		Redox Depre					w Dark Surface (TF12)	
	ick (A9) (LRR P, T)		Marl (F10) (L	•	,			ain in Remarks)	
	d Below Dark Surfa		Depleted Och		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) (LRR O, P,	T) ³ Indicators	of hydrophytic vegetation and	
	rairie Redox (A16)					', U)		hydrology must be present,	
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					isturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 153	D)	
	rface (S7) (LRR P,	S. T. U)	Anomalous b	ngiit Loan	ily colls ((WILIN	1404, 1000, 100		
	Layer (if observed						Τ		
Type: N/	Α								
Depth (in	ches):		_				Hydric Soil Pres	ent? Yes No <u>√</u>	_
Remarks:									
No hydric so	il present								
I									

Project/Site: 1461	City/County: Jackson/Washington Sampling Date: 2019-11-22
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2022
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 2
D 135	Long: Slope (78). 2
,	
Soil Map Unit Name: UuB	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "Normal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓	
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	- Is the Sampled Area
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No✓
Remarks:	
Upland sample associated with wetland W2022. Recent mowing/clear	aring. Vegetation and soil disturbance.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1)	
High Water Table (A2) High Water Table (A2) High Water Table (A2)	
Saturation (A3) Hydrogen Sulfide Outlined Phinase	· · ·
☐ Water Marks (B1) ☐ Oxidized Rhizosp ☐ Sediment Deposits (B2) ☐ Presence of Redu	pheres along Living Roots (C3) Dry-Season Water Table (C2) uced Iron (C4) Crayfish Burrows (C8)
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in	<u>=</u>
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No✓ Depth (inche	
Water Table Present? Yes No✓ Depth (inche	es):
Saturation Present? Yes No ✓ Depth (inche	es): Wetland Hydrology Present? Yes No _✓
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
Upland sample - No hydrology present	

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

/EGETATION (Four Strata) – Use scientific n	ames of pl	ants.		Sampling Point: UP2022
7 O. 1 (D. 1 : 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species $0 \times 1 = 0$
	=	= Total Cov	er	FACW species 10 x 2 = 20
50% of total cover:	20% of	total cover		FAC species 10 x 3 = 30
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 10 x 4 = 40
1. Rubus trivialis	<u>10</u>		FACU	UPL species 30 x 5 = 150
2				
3				Column Totals: 60 (A) 240 (B)
4				Prevalence Index = B/A = 4
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	<u> 10% </u> =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover	2	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Imperata cylindrica	30	✓	UPL	be present, unless disturbed or problematic.
2. Andropogon virginicus	10	✓	FAC	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	40% =	Total Cov	er	
50% of total cover: 20	20% of	total cover	8	
Woody Vine Stratum (Plot size: 30 ft r)				
1. Vitis palmata	10	✓	FACW	
2.				
3.				
4				
5.				Hydrophytic
	10% =	Total Cov	er	Vegetation
50% of total cover: 5	20% of	total cover	2	Present? Yes No
Remarks: (If observed, list morphological adaptations be hydrophytic vegetation present - no other indicators met.		andy bare g	round	

SOIL Sampling Point: UP2022

Profile Description: (Describe	to the depth	needed to docur	ment the inc	dicator o	or confirm	n the absence of	f indicators.)	
Depth <u>Matrix</u>			x Features					
(inches) Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 10 10YR 5/3	100					Sandy loam		
10 - 20 10YR 4/3	100							
-								
-								
								
— - — — — — — — — — — — — — — — — — — — —								
¹ Type: C=Concentration, D=Dep					ins.		L=Pore Lining, M=Mat	
Hydric Soil Indicators: (Applie							or Problematic Hydric	
Histosol (A1)		Polyvalue Be	low Surface	e (S8) (LF	RR S, T, L	J) 🔲 1 cm Mu	ck (A9) (LRR O)	
Histic Epipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black Histic (A3)		Loamy Muck			O)		l Vertic (F18) (outside	
Hydrogen Sulfide (A4)		Loamy Gleye		2)			t Floodplain Soils (F19	
Stratified Layers (A5)		Depleted Ma					ous Bright Loamy Soils	(F20)
Organic Bodies (A6) (LRR F		Redox Dark				_ ,	\ 153B) ent Material (TF2)	
5 cm Mucky Mineral (A7) (L Muck Presence (A8) (LRR I		Depleted Da	•				ent Material (1F2) allow Dark Surface (TF	12)
1 cm Muck (A9) (LRR P, T)	5,	Marl (F10) (L		'			xplain in Remarks)	12)
Depleted Below Dark Surface	ce (A11)	Depleted Oc		MLRA 15	1)	Other (E	Apidin in Homanic)	
Thick Dark Surface (A12)	(,	Iron-Mangan				T) ³ Indicat	ors of hydrophytic vege	etation and
Coast Prairie Redox (A16) (MLRA 150A)					•	nd hydrology must be p	
Sandy Mucky Mineral (S1) (Delta Ochric	(F17) (MLR	RA 151)		unles	s disturbed or problem	atic.
Sandy Gleyed Matrix (S4)		Reduced Ver	rtic (F18) (M	ILRA 150	A, 150B))		
Sandy Redox (S5)		Piedmont Flo						
Stripped Matrix (S6)		Anomalous E	Bright Loamy	y Soils (F	20) (MLR	RA 149A, 153C, 1	53D)	
Dark Surface (S7) (LRR P,								
Restrictive Layer (if observed)):							
Type: N/A		_				1		/
Depth (inches):		_				Hydric Soil P	resent? Yes	_ No <u> </u>
Remarks: No hydric soil present. Disturbed	Leoile							
No flydric son present. Disturbed	SOIIS							

Project/Site: 1461		City/County: Sain	t Stephens/Washington	Sampling Date: 2019-12-11
Applicant/Owner: NextEra			State: Alabama	Sampling Point: UP2023/UP2024
Investigator(s):		Section, Township		
Landform (hillslope, terrace, etc	· v· Upland		ve, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P				Datum: WGS 84
- · · · - · · - · · · · · · · · · · · ·	Lat:			
Soil Map Unit Name: ByD2				tion:
Are climatic / hydrologic condition				
Are Vegetation, Soil	, or Hydrology sigr	nificantly disturbed?	Are "Normal Circumstances" p	resent? Yes <u></u> No
Are Vegetation, Soil	, or Hydrology nati	urally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map sh	nowing sampling poi	nt locations, transects	, important features, etc.
I hadaa ahadia Maaadadia a Baasa	mio Van Na			
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes No _ Yes No _	is the call	pled Area	
Wetland Hydrology Present?	Yes No	i wililli a vv	etland? Yes	No
Remarks:				
Upland sample associated with	n wetland W2023 and W2024			
HYDROLOGY				
Wetland Hydrology Indicato	rs:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; check all tha	it apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fa	auna (B13)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	Marl Depo	sits (B15) (LRR U)	Drainage Pa	terns (B10)
Saturation (A3)		Sulfide Odor (C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized R	Rhizospheres along Living R	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		of Reduced Iron (C4)	Crayfish Buri	rows (C8)
Drift Deposits (B3)	_	n Reduction in Tilled Soils (_	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Surface (C7)	= '	Position (D2)
Iron Deposits (B5)		olain in Remarks)	Shallow Aqu	
Inundation Vis ble on Aeri			FAC-Neutral	` '
Water-Stained Leaves (B))			noss (D8) (LRR T, U)
Field Observations:	Ver No Booth	(lock oc)		
Surface Water Present?	Yes No Depth			
Water Table Present?	Yes No Depth		Wetterd Hedreless Decem	40 Vaa Na
Saturation Present? (includes capillary fringe)	Yes No Depth	(inches):	Wetland Hydrology Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring well, aer	rial photos, previous inspec	tions), if available:	
Remarks: Upland sample - No hydrology	present			
' ' '				

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

/EGETATION (Four Strata) – Use scientific na			Indicator	Sampling Point: UP2023/UP20
Tree Stratum (Plot size: 30 ft r		Dominant Species?		
1. Pinus taeda	20	√	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Quercus alba	10	√	FACU	
3. Liriodendron tulipifera	5		FACU	Total Number of Dominant Species Across All Strata: 6 (B)
4				(b)
5				Percent of Dominant Species That Are OBL_FACW_or FAC: 50 (A/B)
				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	35%	Total Cov		OBL species $0 x 1 = 0$
19				FACW species 15 x 2 = 30
50% of total cover: 18	20% of	total cover		FAC species 25 x 3 = 75
Sapling/Shrub Stratum (Plot size: 30 ft r)		,	540 11	FACU species 30 x 4 = 120
1. Quercus alba	15		FACU	UPL species 10 x 5 = 50
2. Pinus taeda	5	✓	FAC	· — — — —
3				Column Totals: <u>80</u> (A) <u>275</u> (B)
4				Prevalence Index = B/A = 3.4
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8		Total Cov		3 - Prevalence Index is ≤3.0¹
50% - 51-1-1 10				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	-	
Herb Stratum (Plot size: 30 ft r)	45	,	E4014/	¹ Indicators of hydric soil and wetland hydrology must
1. Dichanthelium clandestinum	15		FACW	be present, unless disturbed or problematic.
2. Asarum canadense	10	✓	UPL	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
•				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.25 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov	_	
50% of total cover: 13	20% of	total cover	5	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2.				
3.				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover:	20% of	total cover		
Remarks: (If observed, list morphological adaptations be				
hydrophytic vegetation present - no other indicators met. 3	30 percent sa	andy bare g	round	

US Army Corps of Engineers

SOIL Sampling Point: UP2023/UP2024

Profile Description: (Describe to the depth	needed to docum	nent the in	dicator	or confirn	n the absence of inc	dicators.)
Depth Matrix		x Features	T	1 2	Toutous	Damada
<u>(inches)</u> <u>Color (moist)</u> <u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	Texture Sandy loam	Remarks
10 - 20 7.5YR 3/4 100 _					Sandy loam	
-						
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix MS	S=Masked S	Sand Gr	ains	² Location: PL=P	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all Li						roblematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Be	low Surface	e (S8) (L	.RR S, T, I	U) 1 cm Muck (A	A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Su					A10) (LRR S)
Black Histic (A3)	Loamy Muck			R O)		rtic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye	•	2)			podplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Depleted Mar		8)		(MLRA 15	Bright Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dar		•			Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depre	•				v Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L				Other (Expla	in in Remarks)
Depleted Below Dark Surface (A11)	Depleted Oct	. , .			- 3	
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A)	Iron-Mangan					of hydrophytic vegetation and ydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric			, 0,		sturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ver			0A, 150B)		
Sandy Redox (S5)	Piedmont Flo	odplain So	ils (F19)	(MLRA 14	49A)	
Stripped Matrix (S6)	Anomalous B	right Loam	y Soils (F20) (MLR	RA 149A, 153C, 153D	0)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):					1	
Type: N/A						
Depth (inches):	_				Hydric Soil Prese	ent? Yes No
Remarks:	_				1.,,	
No hydric soil present						

Project/Site: 1461		City/C	ounty: Silas/	Choctaw		Sampling Date: 2020-01-17
Applicant/Owner: NextEra					te: Alabama	Sampling Point: UP2025/UP2026
Investigator(s):		Section	on, Township,			
Landform (hillslope, terrace, etc	. Upland	•	•	_	ne): Convex	Slope (%): 2
Subregion (LRR or MLRA): P			Teller (concave		16).	Datum: WGS 84
- · · · · · · · · · · · · · · · · · · ·	100	Lat:		Long:		
Soil Map Unit Name: OkA					_	tion:
Are climatic / hydrologic condition		-				
Are Vegetation, Soil	, or Hydrology	_ significantly distur	bed? A	re "Normal Ci	rcumstances" p	resent? Yes <u>✓</u> No
Are Vegetation, Soil	, or Hydrology	_ naturally problema	atic? (If	f needed, expl	lain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site ma	p showing san	npling poin	t locations	s, transects	, important features, etc.
I Laboratoria Versatoria Bossa		N.				
Hydrophytic Vegetation Prese Hydric Soil Present?			Is the Samp	led Area		
Wetland Hydrology Present?	Yes		within a We	tland?	Yes	No
Remarks:	100					
Upland sample associated with	n wetland W2025 and W2	026				
HYDROLOGY						
Wetland Hydrology Indicato	rs:			Se	condary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required; check a	all that apply)		[Surface Soil	Cracks (B6)
Surface Water (A1)	☐ Aqua	tic Fauna (B13)			Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)	☐ Marl I	Deposits (B15) (LRI	R U)		Drainage Pat	
Saturation (A3)	Hydro	ogen Sulfide Odor (0	C1)		Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidi:	zed Rhizospheres a	long Living Ro	oots (C3)	Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	<u></u> Pres€	ence of Reduced Iro	n (C4)		Crayfish Burr	rows (C8)
Drift Deposits (B3)	Rece	nt Iron Reduction in	Tilled Soils (C	(6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin !	Muck Surface (C7)		<u> </u>	Geomorphic	Position (D2)
Iron Deposits (B5)		r (Explain in Remark	(S)		Shallow Aqui	tard (D3)
Inundation Vis ble on Aeri					FAC-Neutral	` '
Water-Stained Leaves (B	9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:						
Surface Water Present?	Yes No [I			
Water Table Present?	Yes No [
Saturation Present? (includes capillary fringe)	Yes No [Depth (inches):		Wetland Hyd	rology Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring we	II, aerial photos, pre	vious inspection	ons), if availab	ole:	
Remarks: Upland sample - No hydrology	procent					
Opiand sample - No hydrology	present					

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

regeration (Four Strata) – Ose scientific na	mes or pr	ants.		Sampling Point: 672323/07232
- 20 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover			Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		Total Cov	er	OBL species <u>0</u> x 1 = <u>0</u>
50% of total cover:				FACW species <u>0</u> x 2 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover		FAC species $0 \times 3 = 0$
				FACU species <u>0</u> x 4 = <u>0</u>
1				UPL species 0 x 5 = 0
2				Column Totals: 0 (A) 0 (B)
3				
4				Prevalence Index = B/A = 0
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover		Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30 ft r)				1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1
1. Solidago canadensis	60	1		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon virginicus		<u> </u>		Definitions of Four Vegetation Strata:
3. Cirsium vulgare	10			Definitions of Four vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				Height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	105% =	= Total Cov	/er	
50% of total cover: 53		total cover		
Woody Vine Stratum (Plot size: 30 ft r)		total cover		
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er er	Vegetation No.
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
, , , , , , , , , , , , , , , , , , , ,				

SOIL Sampling Point: UP2025/UP2026

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of ind	licators.)	
Depth	Matrix	0/	Redo:	x Features		100 2	Touture	Domesto	
(inches) 0 - 10	Color (moist) 10YR 3/3	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	LOC	Texture Sandy loam	Remarks	
10 - 20	7.5YR 3/4	100					Sandy loam		
-									_
¹Type: C=Ce	oncentration, D=De	pletion, RM=R	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL=P	ore Lining, M=Matr	ix.
Histosol Histic Ep Black Hi	pipedon (A2) stic (A3)	capie to all Li	Polyvalue Be Thin Dark Su Loamy Mucky	low Surfa rface (S9) y Mineral	ce (S8) (L) (LRR S, (F1) (LRF	T, U)	U) 1 cm Muck (A 2 cm Muck (A Reduced Ve	A10) (LRR S) rtic (F18) (outside	MLRA 150A,B)
Stratified	n Sulfide (A4) d Layers (A5) Bodies (A6) (LRR	B T III	Loamy Gleye Depleted Material Redox Dark S	trix (F3)				oodplain Soils (F19) Bright Loamy Soils	
	icky Mineral (A7) (I		Depleted Dark					лы) Material (TF2)	
	esence (A8) (LRR		Redox Depre	ssions (F	. ,		Very Shallow	Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Expla	in in Remarks)	
	d Below Dark Surfa ark Surface (A12)	ice (A11)	Depleted Och				T) ³ Indicators	of hydrophytic vege	station and
_	rairie Redox (A16)	(MLRA 150A)	=		, , ,		•	ydrology must be p	
Sandy M	lucky Mineral (S1)		Delta Ochric	(F17) (ML	RA 151)		unless dis	turbed or problema	
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 153D	n.	
	rface (S7) (LRR P,	S, T, U)	Anomalous b	ilgiit Loai	ny cons (1 20) (WILI	(4 1404, 1000, 1000	''	
	Layer (if observed								
Type: <u>N//</u>	Α		_						
Depth (inc	ches):						Hydric Soil Prese	ent? Yes	No
Remarks: No hydric soi	il present						-		
No flydlic sol	ii present								

Project/Site: 1461		City/C	ounty: Gilbertown/	•	Sampling Date: 2020-01-19
Applicant/Owner: NextEra					Sampling Point: WROZZALPROZZAL
Investigator(s):		Section	on, Township, Range	_	
Landform (hillslope, terrace, etc.	۱۰ Upland			ex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P 1			Long		Datum: WGS 84
Soil Map Unit Name: ByD2		Lat.	Long		
			<i>.</i>		ation:
Are climatic / hydrologic condition		-			
Are Vegetation, Soil				mal Circumstances" p	present? Yes <u>*</u> No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If neede	ed, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site ma _l	p showing sam	pling point loca	ations, transects	, important features, etc.
Lhadranhatia Vagatatian Brassa	ot? Von	No			
Hydrophytic Vegetation Preser Hydric Soil Present?	rt? Yes		Is the Sampled Are		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
Upland sample associated with	wetland W2027 and W20	073			
HYDROLOGY					
Wetland Hydrology Indicator	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o	f one is required; check a	ll that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		ic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pa	
Saturation (A3)	— ·	gen Sulfide Odor (0	*	Moss Trim L	, ,
Water Marks (B1)		•	long Living Roots (C	. —	Water Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro	, ,	Crayfish Bur	, ,
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)	$\overline{}$	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Muck Surface (C7) (Explain in Remark	ve)	Shallow Aqu	Position (D2)
Inundation Vis ble on Aeria		(Explain in Nemark	(3)	FAC-Neutral	
Water-Stained Leaves (B9				_	noss (D8) (LRR T, U)
Field Observations:	<u>'</u>		T		
Surface Water Present?	Yes No D	epth (inches):			
Water Table Present?	Yes No D		I		
Saturation Present?	Yes No D	Depth (inches):	Wetlar	nd Hydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (streat	am gauge monitoring wel	I aerial photos pre	vious inspections) if	available:	
Describe Necorded Data (silea	in gauge, monitoring wer	i, aeriai priotos, pre	vious irispections), ii	avallable.	
Remarks:					
Upland sample - No hydrology	present				

- 20 ft r		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species	
1. Pinus taeda	25	√	FAC	That Are OBL, FACW, or FAC: 3 (A	۱)
Quercus falcata	15	√	FACU	Total Number of Dominant Species Across All Strata: 6 (B	3)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A	_{VB})
6.					,,
7.				Prevalence Index worksheet:	
8.				Total % Cover of: Multiply by:	
	400/	Total Cov	or er	OBL species 0 x 1 = 0	
50% of total cover: 20				FACW species 0 x 2 = 0	
20 # "	20 /0 01	total cover.		FAC species <u>55</u> x 3 = <u>165</u>	
Sapling/Shrub Stratum (Plot size: 30 π r) 1. Quercus alba	20	✓	FACU	FACU species 35 x 4 = 140	
2. Quercus falcata	10		17100	UPL species $0 x 5 = 0$	
3. Pinus taeda	5		FAC		(B)
				()	`
4				Prevalence Index = $B/A = 3.4$	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
	<u>35%</u> =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 18	20% of	total cover:	7		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	_{st}
1. Pinus taeda	15	✓	FAC	be present, unless disturbed or problematic.	^
2 Rubus pensilvanicus	10	√	FAC	Definitions of Four Vegetation Strata:	
3					
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless	
4				height.	0
5					
6				Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than 3.28 ft (1 m) tall.	ss
7				than 3 in. DBH and greater than 3.20 it (1 in) tail.	
8				Herb – All herbaceous (non-woody) plants, regardle	ess
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine - All woody vines greater than 3.28 ft i	in
11				height.	
12					
	25% =	Total Cov	er		\dashv
50% of total cover: 13	20% of	total cover:	5		
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3.					
4.					
5				Lhudrambudia	
		Total Cov	er	Hydrophytic Vegetation	
50% of total cover:				Present? Yes No	
		total cover.			-
Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation not present	ow).				
rrydrophlydd vegetadoli flot present					

SOIL Sampling Point: V SET V STALL OF V SET V STALL OF V SET V SET

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 15	10YR 3/3	100					Sandy loam		
15 - 20	7.5R 3/4	100					Sandy loam		
-									
-									
l ——									
					. ——				
	oncentration, D=De					ains.	² Location: PL=F	Pore Lining, M=Ma	trix.
Hydric Soil	Indicators: (Appli	cable to all Li	RRs, unless other	rwise not	ed.)		Indicators for P	roblematic Hydri	c Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ice (S8) (L	.RR S, T, L	. —	A9) (LRR O)	
· • • • • • • • • • • • • • • • • • • •	oipedon (A2)		Thin Dark Su	•				A10) (LRR S)	
	stic (A3)		Loamy Muck	-		R O)		rtic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye Depleted Ma		(F2)			oodplain Soils (F19 Bright Loamy Soils	
	l Layers (A5) Bodies (A6) (LRR	D T III	Redox Dark		-6)		(MLRA 15		(F20)
	icky Mineral (A7) (I		Depleted Dai				`	Material (TF2)	
	esence (A8) (LRR		Redox Depre					v Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L		,			ain in Remarks)	<i>'</i>
Deplete	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangan				•	of hydrophytic veg	·
	rairie Redox (A16)					', U)		nydrology must be	
_	Mucky Mineral (S1) Bleyed Matrix (S4)	(LRR O, S)	Delta Ochric Reduced Ver			OA 150D)		sturbed or problen	natic.
	Redox (S5)		Piedmont Flo						
	Matrix (S6)		$\overline{}$, ,	•	RA 149A, 153C, 153I	0)	
1 1	rface (S7) (LRR P,	S, T, U)		•	(, (, ,	•	
Restrictive	_ayer (if observed):							
Type: <u>N/</u>	A		_						
Depth (in	ches):		_				Hydric Soil Pres	ent? Yes	No
Remarks:							•		
No hydric so	l present								
1									

Project/Site: 1461		City/County: Sa	int Stephens/Washingt	on Sampling Date: 2019-12-12
Applicant/Owner: NextEra				ma Sampling Point: UP2028/UP2029
Investigator(s):		_ Section, Townsh		
Landform (hillslope, terrace, etc	v. Upland		cave, convex, none): Conv	/ex Slope (%): 2
		Local relief (con		Datum: WGS 84
Subregion (LRR or MLRA): P	135 Lat:		Long:	
Soil Map Unit Name: ByD2			NWI clas	
Are climatic / hydrologic condition	ons on the site typical for this time	e of year? Yes		
Are Vegetation, Soil	, or Hydrology signifi	cantly disturbed?	Are "Normal Circumstance	es" present? YesNo
Are Vegetation, Soil	, or Hydrology natura	ally problematic?	(If needed, explain any ar	swers in Remarks.)
SUMMARY OF FINDING	S – Attach site map sho	wing sampling p	oint locations, transe	ects, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes ✓ No	ls the Sa	mpled Area	
Hydric Soil Present?	Yes No	10 410 04	•	No
Wetland Hydrology Present?	Yes No		vvoluna: 100	
Remarks: Upland sample associated with	n wetland W2028 and W2029			
HYDROLOGY				
Wetland Hydrology Indicato	rs:		Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum o	of one is required; check all that a	apply)	Surface	Soil Cracks (B6)
Surface Water (A1)	Aquatic Faun	na (B13)	Sparsely	Vegetated Concave Surface (B8)
High Water Table (A2)		s (B15) (LRR U)		e Patterns (B10)
Saturation (A3)		ılfide Odor (C1)		im Lines (B16)
Water Marks (B1)		zospheres along Living		son Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Reduced Iron (C4) Reduction in Tilled Soil:	= '	Burrows (C8) on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck So			phic Position (D2)
Iron Deposits (B5)		in in Remarks)	=	Aquitard (D3)
Inundation Vis ble on Aeri	, ,	,	_	utral Test (D5)
Water-Stained Leaves (B	9)		Sphagn	um moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes No Depth (i	nches):	-	
Water Table Present?	Yes No Depth (i	nches):	.	
Saturation Present?	Yes No Depth (i	nches):	Wetland Hydrology Pr	esent? Yes No
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monitoring well, aeria	I photos, previous inspe	ections), if available:	
Remarks: Upland sample - No hydrology	present			

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

50% of total cover: 18

50% of total cover: 15 20% of total cover: 6

50% of total cover: 13 20% of total cover: 5

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

10

Tree Stratum (Plot size: 30 ft r)

2. Magnolia grandiflora

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

2. Solidago canadensis

Woody Vine Stratum (Plot size: 30 ft r)

2. Pinus taeda 10

1. Pinus taeda

1. Quercus alba

1. Pinus taeda

	ants. Dominant	Indicator	Sampling Point: UP2028/UI Dominance Test worksheet:	_
	Species?			
25	<u> </u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A	
0		FAC	That Are OBL, FACVV, or FAC.)
		170	Total Number of Dominant Species Across All Strata: 6 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A	√B)
			Prevalence Index worksheet:	
			Total % Cover of: Multiply by:	
35% =	Total Cov	er	OBL species <u>0</u> x 1 = <u>0</u>	
		_	FACW species <u>0</u> x 2 = <u>0</u>	
20% 01	total cover		FAC species 60 x 3 = 180	
	,	EAGLI	FACU species 30 x 4 = 120	
20		FACU	UPL species 0 x 5 = 0	
10		FAC	of Especiesxo	D \
			Column Totals: <u>90</u> (A) <u>300</u> (B)
			Prevalence Index = B/A = 3.3	
			Hydrophytic Vegetation Indicators:	
			1 - Rapid Test for Hydrophytic Vegetation	
			2 - Dominance Test is >50%	
			3 - Prevalence Index is ≤3.01	
<u> 30% </u>	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
20% of	total cover:	6		
15		FAC	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	t
10	√	FACU	Definitions of Four Vegetation Strata:	
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height.	
			Sapling/Shrub – Woody plants, excluding vines, lest than 3 in. DBH and greater than 3.28 ft (1 m) tall.	S
			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	SS
			Woody vine – All woody vines greater than 3.28 ft i height.	n
25% =	Total Cov	er		
20% of	total cover:	5		
			Hydrophytic	
=	Total Cov	er	Vegetation Present? Yes ✓ No	
			Present? Yes V No	

Remarks: (If observed, list morphological adaptations below).	
hydrophytic vegetation present - no other indicators met. 30 per	rcent sandy bare ground

SOIL Sampling Point: UP2028/UP2029

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0 - 15	10YR 3/3	100					Sandy loam		
15 - 20	7.5R 3/4	100					Sandy loam		
-									
-									
	ncentration, D=Dep					ains.		=Pore Lining, M=Matrix.	2
	ndicators: (Applic	able to all L	_				_	Problematic Hydric Soils	' :
Histosol (•		Polyvalue Be				. —	k (A9) (LRR O)	
	ipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
Black His			Loamy Muck	-		(O)		Vertic (F18) (outside MLRA	
	n Sulfide (A4) Layers (A5)		Loamy Gleye		(F2)			Floodplain Soils (F19) (LRF is Bright Loamy Soils (F20)	(P, S, I)
	Bodies (A6) (LRR F	T 11)	Depleted Mar		- 6)		(MLRA		
_	cky Mineral (A7) (L		Depleted Dark		,			nt Material (TF2)	
	esence (A8) (LRR L		Redox Depre				_	low Dark Surface (TF12)	
	ck (A9) (LRR P, T)	,	Marl (F10) (L		-,			plain in Remarks)	
	Below Dark Surface	e (A11)	Depleted Ocl		(MLRA 1	51)	_ `	,	
Thick Da	rk Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indicato	rs of hydrophytic vegetation	and
	airie Redox (A16) (, U)		d hydrology must be presen	t,
_	ucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problematic.	
	leyed Matrix (S4)		Reduced Ver						
	edox (S5) Matrix (S6)		Piedmont Flo			•	9A) A 149A, 153C, 15	(2D)	
	face (S7) (LRR P,	S. T. UI	Anomalous E	ongni Loa	illy Solis (i	-20) (WILK)	A 149A, 1930, 18	130)	
	ayer (if observed)								
Type: N/A									
Depth (inc			_				Hydric Soil Pre	esent? Yes No	
Remarks:									
No hydric soil	present								

Project/Site: 1461		City/C	ounty: Saint Ste	phens/Washington	Sampling Date: 2019-12-12
Applicant/Owner: NextEra					Sampling Point: UP2030
Investigator(s)		Section	on, Township, Rang		
Landform (hillslope, terrace, etc	Upland		• • • • • • • • • • • • • • • • • • • •	nvex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P					Datum: WGS 84
· · · · · · · · · · · · · · · · · · ·	100	Lat:	Lor		
Soil Map Unit Name: ByD2					tion:
Are climatic / hydrologic condition					,
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "N	lormal Circumstances" p	resent? YesNo
Are Vegetation, Soil	, or Hydrology	_ naturally problema	atic? (If nee	ded, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site mar	p showing sam	npling point lo	cations, transects	, important features, etc.
Lhadronhadio Venetation Bross	ntO Von	Ne			
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes Yes	I	Is the Sampled A		
Wetland Hydrology Present?	Yes		within a Wetland	1? Yes	No
Remarks:					
Upland sample associated with	n wetland W2030				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; check a	ll that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquat	ic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pat	terns (B10)
Saturation (A3)		gen Sulfide Odor (0	*	Moss Trim Li	, ,
Water Marks (B1)		zed Rhizospheres a			Water Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Burn	, ,
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)	_	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	>	= '	Position (D2)
☐ Iron Deposits (B5) ☐ Inundation Vis ble on Aeri		(Explain in Remark	(S)	☐ Shallow Aqui	
Water-Stained Leaves (B				_	noss (D8) (LRR T, U)
Field Observations:	7)			Opinagiliani ii	1035 (D0) (ERR 1, 0)
Surface Water Present?	Yes No D	Depth (inches):			
Water Table Present?	Yes No D		I		
Saturation Present?	Yes No D		I	land Hydrology Presen	t? Yes No
(includes capillary fringe)					
Describe Recorded Data (stre	am gauge, monitoring well	l, aerial photos, pre	vious inspections),	if available:	
Remarks:					
Upland sample - No hydrology	present				

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

00.6		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r	% Cover			Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Barrent of Barriaget Canada
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				(42)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		Total Co	/er	OBL species <u>0</u> x 1 = <u>0</u>
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 % 01	total cover		FAC species <u>0</u> x 3 = <u>0</u>
				FACU species 100 x 4 = 400
1				UPL species 0 x 5 = 0
2				Column Totals: 100 (A) 400 (B)
3				(5)
4				Prevalence Index = B/A = 4
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	:	- Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30 ft r)				11-41-4
1. Trifolium pratense	50	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Solidago canadensis	25		FACU	Definitions of Four Vegetation Strata:
3. Glechoma hederacea	15		FACU	Definitions of Four Vegetation Strata.
Cirsium arvense	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
"				more in diameter at breast height (DBH), regardless of height.
5				neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	100% =	Total Co	ver	
50% of total cover: 50		total cover		
Woody Vine Stratum (Plot size: 30 ft r)		total cover		
1				
2				
3				
4				
5				Hydrophytic
		Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations beld	ow).			
No hydrophytic vegetation present				

Sampling Point: UP2030

SOIL Sampling Point: UP2030

Profile Descrip	otion: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirn	n the absence o	of indicato	ors.)	
Depth _	Matrix			x Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
	7.5YR 3/3	100					Sandy loam			
15 - 20	7.5YR 4/4	100					Sandy loam			
-										
-										_
										_
 -										
			educed Matrix, M			ains.			ining, M=Matri	
I		cable to all Li	RRs, unless othe						matic Hydric	Soils*:
Histosol (A	•		Polyvalue Be				_	ıck (A9) (L		
Histic Epip	, ,		Thin Dark Su					uck (A10) (
Black Histi			Loamy Muck			(O)				MLRA 150A,B)
Stratified L	Sulfide (A4)		Depleted Ma		F2)				Loamy Soils (F19)	(LRR P, S, T)
	odies (A6) (LRR I	P T III	Redox Dark		6)			A 153B)	Loanly Solls (F20)
	y Mineral (A7) (L		Depleted Da				_ ,	ent Materi	ial (TF2)	
	ence (A8) (LRR		Redox Depre						Surface (TF1	2)
	(A9) (LRR P, T)		Marl (F10) (L		•			xplain in f	•	,
Depleted B	Below Dark Surfa	ce (A11)	☐ Depleted Oc	hric (F11)	(MLRA 1	51)				
	Surface (A12)		Iron-Mangan				•		drophytic vege	
	rie Redox (A16)					, U)			ogy must be p	-
_	cky Mineral (S1)	(LRR O, S)	Delta Ochric			0.4 4500)		ss disturbe	ed or problema	tic.
	yed Matrix (S4)		Reduced Ve							
Sandy Red Stripped M	, ,		Piedmont Flo			,	+9A) RA 149A, 153C, [,]	153D)		
	ce (S7) (LRR P,	S. T. U)	Anomalous	ongin Loan	ily cons (20) (WEI	(4 1404, 1000,	1002)		
	yer (if observed									
Type: N/A		•								
	es):		_				Hydric Soil F	resent?	Yes	No
Remarks:							1			
No hydric soil p	resent									

Project/Site: 1461		City/C	ounty: Saint S	Stephens/Was	shington	Sampling Date: 2019-12-12
Applicant/Owner: NextEra						Sampling Point: UP2031
Investigator(s)		Section	on, Township, R			
Landform (hillslope, terrace, etc	v. Upland		relief (concave,		Convex	Slope (%): 1
Subregion (LRR or MLRA): P			Teller (concave,			
· · · · · · · · · · · · · · · · · · ·	100	Lat: Lat:				
Soil Map Unit Name: ByB						tion:
Are climatic / hydrologic condition						
Are Vegetation, Soil	, or Hydrology	_ significantly distur	bed? Are	e "Normal Circu	mstances" p	resent? Yes <u>✓</u> No
Are Vegetation, Soil	, or Hydrology	_ naturally problema	atic? (If r	needed, explain	any answer	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site ma	p showing san	npling point	locations, t	ransects.	, important features, etc.
Hydrophytic Vegetation Proce	nt? Voc	No				
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes		Is the Sample			
Wetland Hydrology Present?	Yes		within a Wetla	and?	Yes	No
Remarks:						
Upland sample associated with	n wetland W2031					
HYDROLOGY						
Wetland Hydrology Indicato	rs:			Secon	ndary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; check a	all that apply)		_ _ s	Surface Soil (Cracks (B6)
Surface Water (A1)	Aqua	tic Fauna (B13)		□ s	parsely Veg	etated Concave Surface (B8)
High Water Table (A2)	☐ Marl i	Deposits (B15) (LRI	R U)		Prainage Pat	terns (B10)
Saturation (A3)	Hydro	ogen Sulfide Odor (0	C1)	□ №	loss Trim Li	nes (B16)
Water Marks (B1)	Oxidi:	zed Rhizospheres a	long Living Roo	ots (C3)	ry-Season V	Water Table (C2)
Sediment Deposits (B2)	Prese	ence of Reduced Iro	n (C4)	<u> </u>	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Rece	nt Iron Reduction in	Tilled Soils (C6	s) 🛄 s	aturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin !	Muck Surface (C7)		<u> </u>	eomorphic l	Position (D2)
Iron Deposits (B5)		r (Explain in Remark	(s)	<u>□</u> s	Shallow Aquit	tard (D3)
Inundation Vis ble on Aeri	al Imagery (B7)			☐ F	AC-Neutral	Test (D5)
Water-Stained Leaves (B	9)			⊔ s	phagnum m	ioss (D8) (LRR T, U)
Field Observations:						
Surface Water Present?	Yes No [I .			
Water Table Present?	Yes No [I		_	
Saturation Present? (includes capillary fringe)	Yes No [Depth (inches):	^	Vetland Hydrol	ogy Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring we	II, aerial photos, pre	vious inspection	ns), if available:		
Remarks:						
Upland sample - No hydrology	present					
I						

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

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1.		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
				That Ale OBE, FACTO, OF FAC.
2				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		Total Cov		OBL species 0 x 1 = 0
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)		total cover		FAC species <u>0</u> x 3 = <u>0</u>
				FACU species 100 x 4 = 400
1				UPL species <u>0</u> x 5 = <u>0</u>
2				Column Totals: 100 (A) 400 (B)
3				,
4 5				Prevalence Index = B/A = 4
6.				Hydrophytic Vegetation Indicators:
				=
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
500 / - 64 4-1		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30 ft r)	E0	,	EAGLI	¹ Indicators of hydric soil and wetland hydrology must
1. Schedonorus pratensis	50		FACU	be present, unless disturbed or problematic.
2. Trifolium pratense	30		FACU	Definitions of Four Vegetation Strata:
3. Glechoma hederacea	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Cirsium arvense	5		FACU	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				nogn.
12.	100% -	Total Cov	/or	
50% of total cover: 50		total cover		
	20% 01	total cover		
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	=	= Total Cov	er er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations beld	ow).			
No hydrophytic vegetation present	•			

Sampling Point: UP2031

SOIL Sampling Point: UP2031

Profile Desc	ription: (Describe	to the depth	n needed to docum	ent the i	ndicator	or confirm	the absence of	findicato	ors.)	
Depth	Matrix			<u>Features</u>	S1	1 2			D	
(inches) 0 - 15	Color (moist) 10YR 3/3	100	Color (moist)	%	Type	Loc ²	Texture		Remarks	
15 - 20	7.5YR 4/4	100					Sandy loam			
-										
¹Type: C=Co	oncentration D=De	pletion RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains	² Location: P	I =Pore I	ining, M=Matri	ix.
			RRs, unless other			41110.			matic Hydric	
Histosol	(A1)		Polyvalue Bel	ow Surfac	ce (S8) (L	.RR S, T, U	J) 🔲 1 cm Mu	ck (A9) (L	RR O)	
Histic Ep	pipedon (A2)		Thin Dark Su					ck (A10) (
Black Hi			Loamy Mucky			R O)				VILRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye		F2)					(LRR P, S, T)
	Bodies (A6) (LRR	P. T. U)	Depleted Mat		6)			us Bright (153B)	Loamy Soils (F20)
	cky Mineral (A7) (L		Depleted Dark				,	ent Materi	ial (TF2)	
	esence (A8) (LRR		Redox Depre						Surface (TF1	2)
	ck (A9) (LRR P, T)		Marl (F10) (L				Other (E	xplain in F	Remarks)	
	Below Dark Surfa	ce (A11)	Depleted Och				31 - 11 - 1		l h d'	tation and
	ark Surface (A12) rairie Redox (A16)	(MI DA 150A)	☐ Iron-Mangane ☐ Umbric Surfa				•		lrophytic vege ogy must be p	
	lucky Mineral (S1)		Delta Ochric			, 0,		-	ed or problema	
_	Sleyed Matrix (S4)	(=:::: 0, 0,	Reduced Ver			0A, 150B)			a or promone	
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)			
	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	A 149A, 153C, 1	53D)		
	rface (S7) (LRR P, _ayer (if observed									
Type: N/):								
–	ches):						Hydric Soil P	resent?	Yes	No
Remarks:			_				,			
No hydric soi	l present									

Project/Site: 1461		City/C	ounty: Butler/Choo	taw	Sampling Date: 2019-12-13
Applicant/Owner: NextEra			-	State: Alabama	Sampling Point: UP2032/UP2033/UP1117
Investigator(s)		Section	on, Township, Range:	_	
Landform (hillslope, terrace, etc	.)· Upland		relief (concave, conve		Slope (%): 5
Subregion (LRR or MLRA): P		Lat:	Long:		Datum: WGS 84
- · ·		_ Lat	_ Long.	1	
Soil Map Unit Name: BnE2					ition:
Are climatic / hydrologic condition	-				
Are Vegetation, Soil	, or Hydrology	_ significantly distur	bed? Are "Nor	mal Circumstances" p	oresent? Yes <u>√</u> No
Are Vegetation, Soil	, or Hydrology	_ naturally problema	atic? (If neede	d, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site ma	p showing sam	pling point loca	tions, transects	, important features, etc.
Lhadronhadio Venetation Bross	-10 V	Na			
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes		Is the Sampled Are		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
Upland sample associated with	n wetlandS W2032, W203	33 AND			
W1117					
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; check a	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		tic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pa	
Saturation (A3)		ogen Sulfide Odor (0	*	Moss Trim L	, ,
Water Marks (B1)			long Living Roots (C3	. —	Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro Int Iron Reduction in		Crayfish Bur	, ,
Drift Deposits (B3) Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Solls (C6)	_	isible on Aerial Imagery (C9) Position (D2)
Iron Deposits (B5)	_	r (Explain in Remark	(2)	Shallow Aqu	` '
Inundation Vis ble on Aeri		(Explain in Norman		FAC-Neutral	` '
Water-Stained Leaves (B				_	noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No I	Depth (inches):			
Water Table Present?	Yes No I	Depth (inches):			
Saturation Present?	Yes No I	Depth (inches):	Wetlan	d Hydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stre	am gauge monitoring we	II aerial nhotos pre	vious inspections) if:	available [.]	
Decombe Necoraca Data (one	am gaage, memoring we	in, dendi priotos, pro	vious inspectación, il c	avanabio.	
Remarks: Upland sample - No hydrology	procent				
Opiand sample - No hydrology	present				

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

Sampling	Point:	UP2032/UP2033/UP111

Tree Stratum (Plot size: 30 ft r)		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 π Γ) 1. Quercus alba	% Cover 25	Species? ✓	FACU	Number of Dominant Species	
2 Quercus falcata	20		FACU	That Are OBL, FACW, or FAC: 3 (A	.)
			FAC	Total Number of Dominant	
3. Pinus taeda	15	<u> </u>		Species Across All Strata: 7 (B)
4				Percent of Dominant Species	
5					/B)
6				Boundary Indonesia Indonesia	
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	60% =	Total Cov	er	OBL species 0 x 1 = 0	
50% of total cover: 30				FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>50</u> x 3 = <u>150</u>	
1. Ilex opaca	20	✓	FAC	FACU species <u>55</u> x 4 = <u>220</u>	
2. Quercus falcata	5		FACU	UPL species 0 x 5 = 0	
				Column Totals: 105 (A) 370 (B)
J					
4					
5				<u>- </u>	
6				= · · · · · · · · · · · · · · · · · · ·	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
	<u>25%</u> =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 13	20% of	total cover	5		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	t t
	15	✓	FAC	be present, unless disturbed or problematic.	
1. Ilex vomitoria 2. Kalmia latifolia	5	√	FACU	Definitions of Four Vegetation Strata:	
3.					
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	
4				more in diameter at breast height (DBH), regardless height.	OT
5					
6				Sapling/Shrub – Woody plants, excluding vines, les	SS
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8					SS
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	n
11.				height.	
12.					
	20% =	Total Cov	er		
50% of total cover: 10					
Woody Vine Stratum (Plot size: 30 ft r)		total cover			
1					
2					
3					
4					
5				Hydrophytic	
		 Total Cov 	er	Vegetation	
50% of total cover:	20% of	total cover		Present? Yes No	
Remarks: (If observed, list morphological adaptations bel				.1	
No hydrophytic vegetation present	ow).				
No hydrophytic vegetation present					

SOIL Sampling Point: UP2032/UP2033/UP1117

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Feature				<u>-</u>	
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	S
0 - 10	10YR 5/3	100					Sandy loam		
10 - 20	10YR 5/4	100					Sandy loam		
-									
-									_
	ncentration, D=Dep					ains.		_=Pore Lining, M=Ma	
	ndicators: (Applic	cable to all L					_	r Problematic Hydri	ic Soils³:
Histosol (•		Polyvalue Be					k (A9) (LRR O)	
	ipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black His			Loamy Muck	-		(O)	\neg	Vertic (F18) (outside	
	n Sulfide (A4) Layers (A5)		Loamy Gleye		(F2)			t Floodplain Soils (F1 us Bright Loamy Soil:	
	Bodies (A6) (LRR F	T 11\	Depleted Mar		-6)		(MLRA		S (F20)
_	cky Mineral (A7) (L		Depleted Dark	•	,			ent Material (TF2)	
	esence (A8) (LRR L		Redox Depre				_	llow Dark Surface (T	F12)
	ck (A9) (LRR P, T)	-,	Marl (F10) (L		-,			(plain in Remarks)	,
	Below Dark Surface	ce (A11)	Depleted Ocl		(MLRA 1	51)	_ `		
Thick Da	rk Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indicato	ors of hydrophytic ve	getation and
	airie Redox (A16) (, U)		nd hydrology must be	
_	ucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or probler	matic.
	leyed Matrix (S4)		Reduced Ver						
	edox (S5) Matrix (S6)		Piedmont Flo			•	9A) A 149A, 153C, 15	E2D)	
	face (S7) (LRR P,	S. T. UI)	Allomaious E	ingni Loai	illy Solis (i	-20) (WILK)	A 149A, 1930, 18	330)	
	ayer (if observed)								
Type: N/A									
Depth (inc			_				Hydric Soil Pro	esent? Yes	No
Remarks:									
No hydric soil	present								

Project/Site: 1461		City/County: Butle	er/Choctaw	Sampling Date: 2019-12-13
Applicant/Owner: NextEra				Sampling Point: UP2034/UP2078
Investigator(s):			, Range:	
Landform (hillslope, terrace, etc	:): Upland		ve, convex, none): Convex	Slope (%): 1
Subregion (LRR or MLRA): P 1			Long:	Datum: WGS 84
Soil Map Unit Name: SmB	Lat.		NWI classifica	
	ons on the site typical for this time of y	V V		
	, or Hydrology significantl			present? YesNo
Are Vegetation, Soil	, or Hydrology naturally p	roblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDING	S – Attach site map showin	g sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes No			
Hydric Soil Present?	Yes No	is the Sain	•	
Wetland Hydrology Present?	Yes No	i within a w	etland? Yes	No
Remarks:				
Upland sample associated with	n wetland W2034 and W2078			
HYDROLOGY				
Wetland Hydrology Indicato				ators (minimum of two required)
	of one is required; check all that apply		Surface Soil	
Surface Water (A1)	Aquatic Fauna (B			getated Concave Surface (B8)
High Water Table (A2) Saturation (A3)	☐ Marl Deposits (B1☐ Hydrogen Sulfide		Drainage Pa Moss Trim L	
Water Marks (B1)		heres along Living F		Water Table (C2)
Sediment Deposits (B2)	Presence of Redu		Crayfish Bur	· ·
Drift Deposits (B3)	—	ction in Tilled Soils (= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfac			Position (D2)
Iron Deposits (B5)	Other (Explain in	Remarks)	☐ Shallow Aqu	itard (D3)
Inundation Vis ble on Aeri	al Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B	9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes No Depth (inche			
Water Table Present?	Yes No Depth (inche			
Saturation Present? (includes capillary fringe)	Yes No Depth (inche	s):	Wetland Hydrology Preser	nt? Yes No
	am gauge, monitoring well, aerial pho	tos, previous inspec	tions), if available:	
Remarks: Upland sample - No hydrology	present			
1				

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

pecies? otal Cover: otal cover: otal cover: otal cover:	FACU FACU FACU FACU FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet:
otal Cover:	FACU FACU FACU FACU FACU FACU	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 35 x 3 = 105 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU Pr FACU FACU FACU	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 0 x2 = 0 FAC species 35 x3 = 105 FACU species 50 x4 = 200 UPL species 15 x5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	UPL FACU FACU FACU	Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 35 x 3 = 105 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	Pr 5 FACU FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by:
otal Cover:	UPL FACU FACU FACU	That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 35 x 3 = 105 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	PFACU FACU FACU FACU	That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 35 x 3 = 105 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	UPL FACU FACU FACU	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 35 x 3 = 105 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	UPL FACU FACU FACU	Total % Cover of: OBL species 0
al cover:	Pr 5 FACU	OBL species 0 x 1 = 0 FACW species 35 x 3 = 105 FAC species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
al cover:	Pr 5 FACU	FACW species 0 x 2 = 0 FAC species 35 x 3 = 105 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
al cover:	Pr 5 FACU	FAC species 35 x 3 = 105 FACU species 50 x 4 = 200 UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	UPL FACU	FACU species 50
otal Cover:	FACU FACU	UPL species 15 x 5 = 75 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU FACU	Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
otal Cover:	FACU	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
al cover: √ √	FACU FAC	Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
al cover: √ √	FACU FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
√	FACU FAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
√	FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
√	FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of
		height.
		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		than 3 in. DBH and greater than 3.20 it (1 in) tail.
		Herb – All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
		Woody vine – All woody vines greater than 3.28 ft in
		height.
otal Cov	er	
al cover:	8	
		Hydrophytic
otal Cov		Vegetation Present? Ves No
otal Cover:		Present? Yes No
_	<u> </u>	

SOIL Sampling Point: UP2034/UP2078

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirm	the absence of	findicate	ors.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>		Remarks	
0 - 10	10YR 5/4	100					Sandy loam			
10 - 20	7.5YR 4/4	100					Sandy loam			
-										
-										
					- ——					
-										
	oncentration, D=De					ains.			ining, M=Matri	
	ndicators: (Appli	cable to all L	_						matic Hydric S	Soils ³ :
Histosol			Polyvalue Be				. —	ck (A9) (I		
	pipedon (A2)		Thin Dark Su					ck (A10)		
Black Hi			Loamy Muck	-		R O)				/ILRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Ma		(F2)				ain Soils (F19) Loamy Soils (l	
	Bodies (A6) (LRR I	P T II)	Redox Dark		- 6)			153B)	Loanly Solls (20)
_	cky Mineral (A7) (L		Depleted Da					ent Mater	ial (TF2)	
	esence (A8) (LRR I		Redox Depre						k Surface (TF1	2)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		,				Remarks) `	,
Depleted	l Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)				
	ırk Surface (A12)		Iron-Mangan						drophytic veget	
	airie Redox (A16) (', U)		-	ogy must be pr	
_	lucky Mineral (S1)	LRR O, S)	Delta Ochric					s disturbe	ed or problema	tic.
	ileyed Matrix (S4)		Reduced Ve							
	edox (S5) Matrix (S6)		Piedmont Fk		, ,	•	эд) A 149A, 153C, 1	153D)		
1	face (S7) (LRR P,	S. T. U)	Allomatous t	Jilgili Loa	illy cons (1 20) (WILK	A 143A, 1330, 1	1332)		
	ayer (if observed)									
Type: N/		'								
Depth (inc	ches):		_				Hydric Soil P	resent?	Yes	No
Remarks:	-									
No hydric soi	l present									

Project/Site: 1461		City/C	ounty: Butler/Choo	ctaw	Sampling Date: 2019-12-14
Applicant/Owner: NextEra					Sampling Point: UP2035/UP2036
Investigator(s)		Section	on, Township, Range		
Landform (hillslope, terrace, etc	.). Upland			rex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P			Long		Datum: WGS 84
· · · · · · · · · · · · · · · · · · ·		Lat.	Long		
Soil Map Unit Name: SmB			1		ation:
Are climatic / hydrologic condition		-			
Are Vegetation, Soil	, or Hydrology	_significantly distur	bed? Are "No	rmal Circumstances" p	oresent? Yes <u></u> No
Are Vegetation, Soil	, or Hydrology	_ naturally problema	atic? (If neede	ed, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site ma	p showing sam	npling point loca	ations, transects	, important features, etc.
I hadaa ahadia Maaadatia a Baasa		No			
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes Yes	I	Is the Sampled Ar	ea	
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
Upland sample associated with	n wetland W2035 and W20	036			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o	of one is required; check a	ll that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquat	ic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	<u>ا</u> Marl ۵	Deposits (B15) (LRF	R U)	Drainage Pa	tterns (B10)
Saturation (A3)		gen Sulfide Odor (0	•	Moss Trim L	ines (B16)
Water Marks (B1)	U Oxidiz	zed Rhizospheres a	long Living Roots (C	3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Bur	rows (C8)
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)		= '	Position (D2)
Iron Deposits (B5)		(Explain in Remark	(S)	Shallow Aqu	
Inundation Vis ble on Aeri				FAC-Neutral	` '
Water-Stained Leaves (B)				noss (D8) (LRR T, U)
Field Observations:	Voc. No. m				
Surface Water Present?	Yes No D		I .		
Water Table Present?	Yes No D		I	ad Hardwala ara Bassasa	40 Vaa Na
Saturation Present? (includes capillary fringe)	Yes No D	peptn (inches):	vvetiar	nd Hydrology Preser	nt? Yes No
Describe Recorded Data (stre	am gauge, monitoring wel	l, aerial photos, pre	vious inspections), if	available:	
Remarks: Upland sample - No hydrology	present				

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

EGETATION (Four Strata) – Use scientific na	mes of pla	ants.		Sampling Point: UP2035/UP2036
20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Pinus taeda	35		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus falcata	15		FACU	Total Number of Dominant
3. Liquidambar styraciflua	10		FAC	Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33 (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	60% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: <u>30</u>	20% of	total cover:	12	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 65 x 3 = 195
1. Ligustrum vulgare	15	✓	UPL	FACU species 40 x 4 = 160
2. Quercus falcata	10	√	FACU	UPL species 15 x 5 = 75
3.				Column Totals: <u>120</u> (A) <u>430</u> (B)
4				B
5				Prevalence Index = B/A = 3.6
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	25% =	Total Con		3 - Prevalence Index is ≤3.0¹
50% -61-1-1 13				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% of	total cover:		
Herb Stratum (Plot size: 30 ft r)	20	,	EAC	¹Indicators of hydric soil and wetland hydrology must
	15		FAC	be present, unless disturbed or problematic.
2. Kalmia latifolia		✓	FACU	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	35% =	Total Cov	er	
50% of total cover: 18				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		Total Cov		Vegetation Present? Yes No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belon No hydrophytic vegetation present	ow).			

SOIL Sampling Point: UP2035/UP2036

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8	10YR 3/3	_ <u>100</u> _					Sandy loam	
8 - 20	7.5YR 4/3	100					Sandy loam	
-								
								_
	ncentration, D=De					ains.		Pore Lining, M=Matrix.
	ndicators: (Appli	cable to all L				DD 6 T 11		Problematic Hydric Soils ³ :
Histosol (ipedon (A2)		Polyvalue Be Thin Dark Su					(A9) (LRR 0) (A10) (LRR S)
Black His			Loamy Muck					ertic (F18) (outside MLRA 150A,B)
=	n Sulfide (A4)		Loamy Gleye	•		. •,	$\overline{}$	loodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		. ,			Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark				(MLRA 15	
	cky Mineral (A7) (L		Depleted Dar					Material (TF2)
	esence (A8) (LRR		Redox Depre		8)			w Dark Surface (TF12) ain in Remarks)
	ck (A9) (LRR P, T) I Below Dark Surfa		Marl (F10) (L Depleted Ocl		(MLRA 1	51)	Other (Expl	all III Remarks)
	rk Surface (A12)	oc (/ (Iron-Mangan				T) ³ Indicators	of hydrophytic vegetation and
	airie Redox (A16) (MLRA 150A)					•	hydrology must be present,
_	ucky Mineral (S1)	(LRR O, S)	Delta Ochric					isturbed or problematic.
	leyed Matrix (S4)		Reduced Ver					
	edox (S5) Matrix (S6)		Piedmont Flo			•	9A) A 149A, 153C, 153	D)
	face (S7) (LRR P,	S. T. U)	Allomaious E	ongni Loa	illy Solis (i	-20) (WILK	A 149A, 1550, 155	Ы
	ayer (if observed	•						
Type: N/A	A		_					
Depth (inc	:hes):						Hydric Soil Pres	ent? Yes No
Remarks:								
No hydric soi	present							

Project/Site: 1461		City/Co	ounty: Salis/Choo	ctaw	Sampling Date: 2019-12-16
Applicant/Owner: NextEra					Sampling Point: UP2038/UP2042/UP1070
Investigator(s)		Section	n, Township, Range		
Landform (hillslope, terrace, etc	ı. Upland				Slope (%): <u>3</u>
Subregion (LRR or MLRA): P		_at:	Long		Datum: WGS 84
Soil Map Unit Name: SmB		-a(t.	Lon	NWI classifica	
Are climatic / hydrologic condition		i- 4i f	- √ Na		
Are Vegetation, Soil					oresent? YesNo
Are Vegetation, Soil	, or Hydrologyı	naturally problema	tic? (If need	led, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map	showing sam	pling point loc	ations, transects	, important features, etc.
Hydrophytic Vegetation Prese	nt? Ves N	do			
Hydrophytic Vegetation Preser Hydric Soil Present?	nt? Yes N Yes N	Jo.	Is the Sampled A		
Wetland Hydrology Present?	Yes N		within a Wetland	? Yes	No
Remarks:					
Upland sample associated with	wetland W2038				
HYDROLOGY					
Wetland Hydrology Indicator					tors (minimum of two required)
Primary Indicators (minimum o				Surface Soil	
Surface Water (A1)		Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		eposits (B15) (LRR		Drainage Pa	
Saturation (A3) Water Marks (B1)	— • •	en Sulfide Odor (C	ong Living Roots (C	Moss Trim L	Water Table (C2)
Sediment Deposits (B2)		ce of Reduced Iron		Crayfish Bur	· ·
Drift Deposits (B3)		Iron Reduction in			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		uck Surface (C7)		_	Position (D2)
Iron Deposits (B5)		Explain in Remarks	s)	Shallow Aqu	
Inundation Vis ble on Aeric	al Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (BS))			Sphagnum n	noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No De				
Water Table Present?	Yes No De				
Saturation Present? (includes capillary fringe)	Yes No De	epth (inches):	Wetla	nd Hydrology Preser	nt? Yes No
Describe Recorded Data (stream	am gauge, monitoring well,	aerial photos, prev	vious inspections), i	f available:	
Remarks: Upland sample - No hydrology	present				
opiana sample - No nyarology	present				

VEGETATION (Four Strata) – Use scientific names of plant	VE(GETATION	(Four Strata)	- Use scientific	c names of plants
---	-----	----------	---------------	------------------	-------------------

1. Quercus falcata 15 ✓ FACU 2. Pinus taeda 10 ✓ FAC

1. Ligustrum vulgare 15 ✓ UPL

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

nes of pl	ants.			Sa	ampli	ng Point: UP203	8/UP2042/UP1070
	Dominant		Dominance Te	st workshee	t:		
<u>% Cover</u> 15	Species?	<u>Status</u> FACU	Number of Dom			4	
10		FAC	That Are OBL, I	FACW, or FA	C:	1	_ (A)
10		FAC	Total Number o			•	
			Species Across	All Strata:		6	_ (B)
			Percent of Dom That Are OBL, I			17	_ (A/B)
			Prevalence Ind	lex workshe	et:		
			Total % Co	ver of:		Multiply by:	
25% =	Total Cov		OBL species	0	x 1	= 0	_
	total cover:	_	FACW species	0	x 2	2 = 0	
20% 01	total cover.		FAC species	<u>25</u>	_ x 3	3 = <u>75</u>	_
15	1	UPL	FACU species	70	x 4	= 280	
10		012	UPL species	15	x 5	5 = <u>75</u>	
			Column Totals:	110	(A)	430	(B)
					A =	3.0	
			Prevalence Ind Hydrophytic V				
				est for Hydro			
			I 💳	nce Test is >		c vegetation	
				nce Index is			
15% =	Total Cov	er	Problematic			etation ¹ (Eval	ain)
	total cover:	_	Probleman	riyalopilytic	veg	etation (Expi	alli)
			1Indicators of hy	dric soil and	wetla	and hydrology	must
25	✓	FACU	be present, unle	ess disturbed	or pr	roblematic.	
15	✓	FACU	Definitions of I	our Vegetat	tion (Strata:	
15	✓	FACU	Tree – Woody p	dante evolud	ling v	rines 3 in (7 i	6 cm) or
10		FAC	more in diameter				
5		FAC	height.				
			Sapling/Shrub than 3 in. DBH				
			Herb – All herba				ardless
			Woody vine – / height.	All woody vin	es gr	eater than 3.2	28 ft in
	Total Cov						
20% of	total cover:	14					
			Hydrophytic				
	Total Cov		Vegetation Present?	Yes		No	
20% of	total cover:	:	rieseiltr	168		No	

7.			2 - Dominance Test is >50%
8			E Dominance reaction 6070
8	15% = Total (3 - Prevalence Index is ≤3.0¹
500/ -51		_	Problematic Hydrophytic Vegetation ¹ (Explain)
	tal cover: 8 20% of total co	/er: <u>3</u>	
Herb Stratum (Plot size: 30 ft r	= *	EACH	¹Indicators of hydric soil and wetland hydrology must
1. Trifolium pratense	25 🗸		be present, unless disturbed or problematic.
2. Glechoma hederacea	15 🗸	FACU	Definitions of Four Vegetation Strata:
3. Schedonorus pratensis	15 ✓	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Plantago major		FAC	more in diameter at breast height (DBH), regardless of
5. Ilex vomitoria	5	FAC	height.
6			Sapling/Shrub – Woody plants, excluding vines, less
7			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			Herb – All herbaceous (non-woody) plants, regardless
9.			of size, and woody plants less than 3.28 ft tall.
10			W
11.			Woody vine – All woody vines greater than 3.28 ft in height.
12.			
	70% = Total (Cover	
50% of to	tal cover: 35 20% of total co		
Woody Vine Stratum (Plot size: 30 ft r		/ei. <u></u>	
1			
2			
3			
4			
5			Hydrophytic
	= Total (Cover	Vegetation
50% of to	tal cover: 20% of total co	/er:	Present? Yes No
Remarks: (If observed, list morphological	adaptations below).		1
No hydrophytic vegetation present			
IS Army Corns of Engineers			Atlantia and Gulf Coastal Plain Parian Marries 2.0
JS Army Corps of Engineers			Atlantic and Gulf Coastal Plain Region – Version 2.0

25% = Total Cover

50% of total cover: 13 20% of total cover: 5

SOIL Sampling Point: UP2039AP2047UP1070

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of ind	dicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	<u>Texture</u>	Remarks
0-16	7.5R 4/3	100					Sandy loam	
16 - 20	7.5R 4/4	100					Sandy loam	
-								
-								
-								
	oncentration, D=De					ains.		Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_			DD 0 T 1		roblematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				. —	A9) (LRR O) A10) (LRR S)
Black Hi			Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			. •,		podplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat	trix (F3)				Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark	•	,		(MLRA 15	
	cky Mineral (A7) (L		Depleted Dar					Material (TF2)
	esence (A8) (LRR		Redox Depre		8)			v Dark Surface (TF12) iin in Remarks)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och		(MIRA 1	51)	Other (Expla	iii iii Remarks)
	ark Surface (A12)	00 (/ 1/ 1)	Iron-Mangane		•		T) ³ Indicators	of hydrophytic vegetation and
l =	rairie Redox (A16)	(MLRA 150A)					•	nydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver					
	ledox (S5)		Piedmont Flo			•	•	
	Matrix (S6) rface (S7) (LRR P,	S T III	Anomalous B	right Loar	my Solls (F20) (WILK	RA 149A, 153C, 153D	J)
	_ayer (if observed						T	
Type: N/	• .	,-						
Depth (inc			_				Hydric Soil Prese	ent? Yes No
Remarks:								
No hydric soi	l present							

Project/Site: 1461		City/C	ounty: Butler/Choo	ctaw	Sampling Date: 2019-12-16
Applicant/Owner: NextEra					Sampling Point: UP2039
Investigator(s):		Section	on, Township, Range		
Landform (hillslope, terrace, etc	.v. Upland			rex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P					Datum: WGS 84
		.at:	Long		
Soil Map Unit Name: BnE2					tion:
Are climatic / hydrologic condition		_			
Are Vegetation, Soil	, or Hydrology s	significantly disturt	ped? Are "Nor	mal Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil	, or Hydrology r	naturally problema	itic? (If neede	ed, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map	showing sam	pling point loca	ations, transects	, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes N	lo			
Hydric Soil Present?	Yes N	I	Is the Sampled Are		
Wetland Hydrology Present?	Yes N		within a Wetland?	Yes	No
Remarks:					
Upland sample associated with	n wetland W2039				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o		that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	☐ Aquatic	Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		eposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)	Hydrog	en Sulfide Odor (C	21)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidize	d Rhizospheres a	long Living Roots (C	3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Present	ce of Reduced Iron	n (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recent	Iron Reduction in	Tilled Soils (C6)	Saturation V	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Mu	uck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		Explain in Remark	s)	Shallow Aqu	
Inundation Vis ble on Aeri				FAC-Neutral	` '
Water-Stained Leaves (B))			Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	Van Na Ba	- H- ('			
Surface Water Present?	Yes No De				
Water Table Present?	Yes No De				10 V N-
Saturation Present? (includes capillary fringe)	Yes No De	pth (inches):	Wetlar	nd Hydrology Preser	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring well,	aerial photos, pre	vious inspections), if	available:	
Remarks:	procent				
Upland sample - No hydrology	present				
I					

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

ames of pla			Sampling Point: UP2039
	Dominant		Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
10		FACW	Species Across All Strata: 6 (B)
			Barret (Barrier t Carrier
			Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
			That Ale OBE, TAOV, OT AO.
			Prevalence Index worksheet:
- —			Total % Cover of: Multiply by:
600/			OBL species $0 x 1 = 0$
			FACW species 10
20% of	total cover:	12	FAC species 55 x 3 = 165
			. The openion
15	✓	UPL	FACU species 40 x 4 = 160
10	✓	FACU	UPL species <u>15</u> x 5 = <u>75</u>
			Column Totals: 120 (A) 420 (B)
			2.5
			Prevalence Index = $B/A = 3.5$
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
25% =	Total Cov	er	
			Problematic Hydrophytic Vegetation¹ (Explain)
20% 01	total cover.		
20	,	E40	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
15		FACU	Definitions of Four Vegetation Strata:
			Tree Medy plants evaluding vines 3 in (7.6 cm) of
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			than 3 in. DBH and greater than 3.20 it (1 in) tail.
			Herb - All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
35%	Total Cov		
20% of			
	total cover:		
20% of	total cover:		
20% of	total cover:		
20% of	total cover:		
20% of	total cover:		
20% of	total cover:	7	Hydrophytic
20% of	total cover:	7	Hydrophytic Vegetation Present? Yes No
	35 15 10 60% = 20% of 15 10 25% = 20% of 15	35	15

SOIL Sampling Point: UP2039

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of inc	dicators.)
Depth	Matrix (Section 1)	0/		x Feature:		1 2	Toutous	Danisation
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	<u>Texture</u>	Remarks
0-12	10YR 3/3	_ 100 _					Sandy loam	
12 - 20	10YR 4/3	100					Sandy loam	
-								
-								
							2	
	oncentration, D=De					ains.		Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all Li	_			DD C T I		roblematic Hydric Soils ³ :
Histosol	oipedon (A2)		Polyvalue Be Thin Dark Su				. —	A9) (LRR O) A10) (LRR S)
Black Hi			Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			,		podplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat	trix (F3)				Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I		Redox Dark S		,		(MLRA 15	
	icky Mineral (A7) (L		Depleted Dar					Material (TF2)
	esence (A8) (LRR lick (A9) (LRR P, T)		Redox Depre		8)			v Dark Surface (TF12) iin in Remarks)
	d Below Dark Surfa		Depleted Och		(MLRA 1	51)	Other (Expla	iii iii Remarks)
	ark Surface (A12)	00 (/ 11 1)	Iron-Mangane		•		T) ³ Indicators	of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetland h	nydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 153E	2)
	rface (S7) (LRR P,	S. T. U)	Anomalous B	ilgili Loai	ity Solis (rzo) (WEN	A 149A, 1550, 155L	5)
	_ayer (if observed	•						
Type: N/	A		_					
Depth (inc	ches):		_				Hydric Soil Prese	ent? Yes No
Remarks:							1	
No hydric soi	I present							

Project/Site: 1461		City/C	ounty: Butle	er/Choctaw		Sampling Date: 2019-12-16
Applicant/Owner: NextEra						Sampling Point: UP2040
Investigator(s):		Section	on, Township,	, Range:		
Landform (hillslope, terrace, etc	_{2.):} Upland			ve, convex, non	ne): Convex	Slope (%): 3
Subregion (LRR or MLRA): P		Lat:	· ·	_		Datum: WGS 84
Soil Map Unit Name: BnE2				20119.	NWI classificat	
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y	es <u>√</u> N	o (If n	o, explain in Re	emarks.)
Are Vegetation, Soil	, or Hydrology	_significantly distur	bed?	Are "Normal Cir	cumstances" p	resent? YesNo
Are Vegetation, Soil					ain any answer	
				•	•	important features, etc
Hydrophytic Vegetation Prese	ent? Yes	No				
Hydric Soil Present?	Yes		Is the Samp			
Wetland Hydrology Present?	Yes		within a We	etland?	Yes	No
Remarks: Upland sample associated witl	h wetland W2040					
HYDROLOGY						
Wetland Hydrology Indicato	rs:			Se	condary Indicat	tors (minimum of two required)
Primary Indicators (minimum	of one is required; check a	all that apply)		□	Surface Soil (Cracks (B6)
Surface Water (A1)	Aqua	tic Fauna (B13)			Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		H	Drainage Pat	
Saturation (A3)		ogen Sulfide Odor (0	•	<u> </u>	Moss Trim Li	, ,
Water Marks (B1)		zed Rhizospheres a		oots (C3)		Vater Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro		片	Crayfish Burn	, ,
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)	ī	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Muck Surface (C7)	·a\	H	Geomorphic	, ,
☐ Iron Deposits (B5) ☐ Inundation Vis ble on Aer		r (Explain in Remark	(8)	H	Shallow Aquit	, ,
Water-Stained Leaves (B				Ħ	i	oss (D8) (LRR T, U)
Field Observations:	-		Т		Copilagilaiii	000 (20) (2.1.11)
Surface Water Present?	Yes No [Depth (inches):				
Water Table Present?	Yes No [
Saturation Present? (includes capillary fringe)	Yes No [Wetland Hyd	rology Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring we	II, aerial photos, pre	vious inspect	ions), if availab	le:	
Remarks:						
Upland sample - No hydrology	present					

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

	ames of pl	arits.		Sampling Point: UP2040
Topo Otroturo (Plataino, 30 ff r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?	FAC	Number of Dominant Species
Pinus taeda	40	_		That Are OBL, FACW, or FAC: 2 (A)
2. Magnolia virginiana	10		FACW	Total Number of Dominant
3. Quercus falcata	5		FACU	Species Across All Strata: 5 (B)
4				Barret of Barrier of Country
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B
6.				That Are OBE, FACW, OF FAC.
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	55%			OBL species 0 x 1 = 0
20		Total Cov		FACW species 10 x 2 = 20
50% of total cover: 28	20% of	total cover:	11	FAC species <u>55</u> x 3 = <u>165</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 25 x 4 = 100
1. Ligustrum vulgare	<u> 15</u>		UPL	
2. Quercus falcata	10	✓	FACU	UPL species 15 x 5 = 75
3.				Column Totals: <u>105</u> (A) <u>360</u> (B)
4				5, 34
				Prevalence Index = B/A = 3.4
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	25% =	Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	resistants rightly to regentation (Explain)
Herb Stratum (Plot size: 30 ft r)				Indicators of hydric call and watered hydrology much
1. Ilex vomitoria	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Kalmia latifolia	10		FACU	
				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herbonia All herbonia (con use do) planta manadiana
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				or size, and woody plants less than 5.25 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	<u>25%</u> =	Total Cov	er	
50% of total cover: 13	20% of	total cover:	5	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
1				
2				
2				Hydrophytic
2		Total Cov	er	Hydrophytic Vegetation
2		Total Cov		

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirn	n the absence of i	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
0-6	7.5YR 4/3	100					Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
									
-									
¹Type: C=C	oncentration, D=De	nletion RM=F	Reduced Matrix MS	=Masked	Sand Gr	aine	2l ocation: Pl	=Pore Lining, M=Mat	iv
	Indicators: (Appli					amo.		Problematic Hydric	
Histosol			Polyvalue Be			RR S. T. I		k (A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
	stic (A3)		Loamy Muck					Vertic (F18) (outside	MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)	•		Floodplain Soils (F19	
	d Layers (A5)		Depleted Mat	rix (F3)				s Bright Loamy Soils	(F20)
	Bodies (A6) (LRR		Redox Dark S				☐ (MLRA1		
	ıcky Mineral (A7) (I		Depleted Dar		` '			nt Material (TF2)	
	esence (A8) (LRR	•	Redox Depre		8)			ow Dark Surface (TF	12)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och		(MI DA 1	E4\	Other (Exp	plain in Remarks)	
	ark Surface (A12)	ice (ATT)	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vege	etation and
ı =	rairie Redox (A16)	(MLRA 150A)	=		. , .		•	d hydrology must be p	
	Mucky Mineral (S1)		Delta Ochric			, -,		disturbed or problema	
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B))		
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	RA 149A, 153C, 15	(3D)	
	rface (S7) (LRR P,								
1	Layer (if observed ^	ı):							
Type: N/			_				I hadala Gall Bas	10 V	
Depth (in	cnes):		_				Hydric Soil Pre	esent? Yes	No
Remarks: No hydric so	il present								
140 Hydric 30	ii present								
									l
									l
									l
									l
									l
									l
I									

Project/Site: 1461		City/C	ounty: Butler/Cho	octaw	Sampling Date: 2019-12-16
Applicant/Owner: NextEra					Sampling Point: UP2041
Investigator(s)		Section	on, Township, Rang		
Landform (hillslope, terrace, etc	. ∪pland			ivex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P			Lon		Datum: WGS 84
,		Lat:	Lon		
Soil Map Unit Name: BnE2					ation:
Are climatic / hydrologic condition		-			
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "No	ormal Circumstances" p	oresent? Yes <u></u> No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If need	led, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site mar	showing sam	npling point lo	ations, transects	, important features, etc.
Hydrophytic Vegetation Prese		I	Is the Sampled A	rea	
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes		within a Wetland	? Yes	No
Remarks:	100				
Upland sample associated with	n wetland W2040				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o	of one is required; check a	ll that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquat	ic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	<u></u> Marl □	Deposits (B15) (LRF	R U)	Drainage Pa	tterns (B10)
Saturation (A3)	Hydro	gen Sulfide Odor (0	C1)	Moss Trim L	ines (B16)
Water Marks (B1)	Oxidiz	zed Rhizospheres a	long Living Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recen	nt Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		(Explain in Remark	(s)	Shallow Aqu	
Inundation Vis ble on Aeri				FAC-Neutral	` '
Water-Stained Leaves (B	9)				noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No D		I .		
Water Table Present?	Yes No D		I		
Saturation Present? (includes capillary fringe)	Yes No D	epth (inches):	Wetla	and Hydrology Preser	nt? Yes No
Describe Recorded Data (stre	am gauge, monitoring wel	l, aerial photos, pre	vious inspections),	if available:	
Remarks: Upland sample - No hydrology	present				
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

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

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2041
00.0		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	40		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Magnolia virginiana	10		FACW	Total Number of Dominant
3. Quercus falcata	5		FACU	Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	55% =	Total Cov	er	OBL species 0 x 1 = 0
50% of total cover: <u>28</u>	20% of	total cover:	11	FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 55 x 3 = 165
1. Ligustrum vulgare	15	✓	UPL	FACU species 25 x 4 = 100
2. Quercus falcata	10	√	FACU	UPL species 15 x 5 = 75
3.				Column Totals: 105 (A) 360 (B)
4				Prevalence Index = B/A = 3.4
5.				Hydrophytic Vegetation Indicators:
6.				
7				1 - Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
o	25% -	Total Cov	or	3 - Prevalence Index is ≤3.0¹
50% of total cover: 13				Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30 ft r)	20 % 01	total cover.		
1. Ilex vomitoria	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Kalmia latifolia	10		FACU	Definitions of Four Vegetation Strata:
		<u> </u>		Definitions of Four vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				nogii.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		Total Cov		
50% of total cover: 13	20% of	total cover:	5	
Woody Vine Stratum (Plot size: 30 ft r)				
1,				
2				
3				
4				
5				Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belon No hydrophytic vegetation present	ow).			

Profile Description: (Describe to the depth	needed to docur	ment the inc	dicator or	confirm	the absence of inc	dicators.)	
Depth <u>Matrix</u>		x Features			_		
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type ¹ Lo	oc ²	<u>Texture</u>	Remarks	
0-6 7.5YR 4/3 100					Sandy loam		
6-20 7.5YR 4/4 100					Sandy loam		
-							
-							
							
— - — — — –							
<u> </u>		. —— -					
¹ Type: C=Concentration, D=Depletion, RM=R				s.	² Location: PL=F	Pore Lining, M=Matrix	(.
Hydric Soil Indicators: (Applicable to all LF						roblematic Hydric S	Soils ³ :
Histosol (A1)	Polyvalue Be					A9) (LRR O)	
Histic Epipedon (A2)	Thin Dark Su					A10) (LRR S)	
Black Histic (A3)	Loamy Muck)		rtic (F18) (outside M	
Hydrogen Sulfide (A4)	Loamy Gleye		2)			oodplain Soils (F19)	
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Depleted Ma		١		(MLRA 15	Bright Loamy Soils (F ২৪১	-20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Da				_ ,	Material (TF2)	
Muck Presence (A8) (LRR U)	Redox Depre					v Dark Surface (TF12	2)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L					in in Remarks)	-′
Depleted Below Dark Surface (A11)	Depleted Oc		/ILRA 151)		_	,	
Thick Dark Surface (A12)	Iron-Mangan				•	of hydrophytic veget	
Coast Prairie Redox (A16) (MLRA 150A))		nydrology must be pr	
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric				unless di	sturbed or problemat	ic.
Sandy Gleyed Matrix (S4)	Reduced Ve						
Sandy Redox (S5)	Piedmont Flo				•		
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Anomalous E	sright Loamy	y Solls (F20)) (IVILRA	A 149A, 153C, 153E))	
Restrictive Layer (if observed):					Ι		
Type: N/A							
Depth (inches):	_				Hydric Soil Prese	ent? Yes	No
Remarks:					Tiyunc don Trest	163	
No hydric soil present							
							l
							l
							l
							l
							l
1							

Project/Site: 1461		City/C	ounty: Silas/C	hoctaw	Sampling Date: 2019-12-18
Applicant/Owner: NextEra					Sampling Point: UP2043/UP2044
Investigator(s):		Section	on, Township, Ra		
Landform (hillslope, terrace, etc). Upland			_	Slope (%): 3
Subregion (LRR or MLRA): P			relier (concave,		Datum: WGS 84
		Lat.			
Soil Map Unit Name: LnD2					tion:
Are climatic / hydrologic condition					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are	"Normal Circumstances" p	resent? Yes <u></u> No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If n	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map	showing sam	pling point	locations, transects	, important features, etc.
I bedeen bedie Meestelle Bessel	-10				
Hydrophytic Vegetation Prese Hydric Soil Present?	nt? Yes I Yes I	I	Is the Sample	d Area	
Wetland Hydrology Present?	Yes 1	I	within a Wetla	ind? Yes	No
Remarks:					
Upland sample associated with	wetland W2043 and W20	44			
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; check all	l that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquation	c Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		eposits (B15) (LRF	R U)	Drainage Pa	terns (B10)
Saturation (A3)	☐ Hydroç	gen Sulfide Odor (0	C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	U Oxidize	ed Rhizospheres a	long Living Root	s (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Preser	nce of Reduced Iro	n (C4)	Crayfish Burn	rows (C8)
Drift Deposits (B3)	Recent	t Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin M	luck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	Other ((Explain in Remark	(s)	Shallow Aqui	tard (D3)
Inundation Vis ble on Aeri	al Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B))			Sphagnum n	noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No De		I		
Water Table Present?	Yes No De		I .		
Saturation Present? (includes capillary fringe)	Yes No De	epth (inches):	w	etland Hydrology Preser	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring well,	, aerial photos, pre	vious inspection	s), if available:	
Remarks: Upland sample - No hydrology	present				
opiana campio incinjanciogy	processi				

Sampling	Point:	UP2043/UP204

- 20 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Ilex opaca	15		FAC	Total Number of Dominant
3. Quercus bicolor	5		FACW	Species Across All Strata: 4 (B)
4. Quercus falcata	5		FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	55% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 28	20% of	total cover:	11	FACW species $\frac{5}{50}$ $\times 2 = \frac{10}{150}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 x 3 = 150
1. Ulmus alata	8	✓	FACU	FACU species 13 x 4 = 52
2. Ilex opaca	5	<u> </u>	FAC	UPL species 0 x 5 = 0
3.				Column Totals: <u>68</u> (A) <u>212</u> (B)
4				
				Prevalence Index = B/A = 3.1
5				Hydrophytic Vegetation Indicators:
6				=
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
-		Total Cov		☐ Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 7	20% of	total cover:	3	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Harb All barbassas (see weeds) alente secondos
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in
				height.
12				
500/ - 61-1 I		Total Cov		
50% of total cover:	20% of	total cover.		
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below hydrophytic vegetation present	ow).			

SOIL Sampling Point: UP2043/UP2044

Profile Desc	ription: (Describe	e to the depth	needed to docum	nent the i	indicator	or confirn	n the absence of inc	licators.)	
Depth	Matrix	0/		x Feature		1 == 2	Tautore	D	
(inches) 0 - 6	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	LOC ~	<u>Texture</u>	Remarks	
	7.5YR 4/3						Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
-									
-									
1=							21		
	oncentration, D=De Indicators: (Appli					ains.		ore Lining, M=Mat roblematic Hydric	
Histosol		cable to all L	Polyvalue Be			PRS T I		•	. Jons .
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)	
	stic (A3)		Loamy Muck					rtic (F18) (outside	MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19	
	Layers (A5)		Depleted Mar		-0)			Bright Loamy Soils	(F20)
	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S				(MLRA 15	зв) Material (TF2)	
	esence (A8) (LRR		Redox Depre		` '			v Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L		-,			in in Remarks)	,
	d Below Dark Surfa	ce (A11)	Depleted Och						
ı =	ark Surface (A12)		Iron-Mangan				•	of hydrophytic veg	
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa Delta Ochric			, U)		iydrology must be p sturbed or problem	
_	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ver			0A. 150B)		sturbed or problem	auc.
	Redox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous B	right Loar	my Soils (F20) (MLR	RA 149A, 153C, 153E))	
	rface (S7) (LRR P,								
1	Layer (if observed):							
Type: <u>N//</u>			_					10 1/	
Depth (inc	cnes):		_				Hydric Soil Prese	ent? Yes	_ No
Remarks: No hydric soi	il present								
,									

Project/Site: 1461		City/C	ounty: Silas/Choo	ctaw	Sampling Date: 2019-12-18
Applicant/Owner: NextEra					Sampling Point: UP2045
Investigator(s):		Section	on, Township, Rang		
Landform (hillslope, terrace, etc	v. Upland				Slope (%): 3
	•		Lon		
Subregion (LRR or MLRA): P		Lat:	Lon		Datum: WGS 84
Soil Map Unit Name: LnD2					tion:
Are climatic / hydrologic condition					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "No	ormal Circumstances" p	oresent? Yes <u>√</u> No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If need	ded, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site mar	showing sam	pling point lo	cations, transects	, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes	No			
Hydric Soil Present?	Yes	I	Is the Sampled A		
Wetland Hydrology Present?	Yes		within a Wetland	? Yes	No
Remarks:					
Upland sample associated with	wetland W2045				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o		II that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	☐ Aquati	ic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	Drainage Pa	
Saturation (A3)	Hydro	gen Sulfide Odor (0	C1)	Moss Trim Li	ines (B16)
Water Marks (B1)	Oxidiz	ed Rhizospheres a	long Living Roots (0	C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Prese	nce of Reduced Iro	n (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recen	nt Iron Reduction in	Tilled Soils (C6)	Saturation V	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin M	luck Surface (C7)			Position (D2)
Iron Deposits (B5)		(Explain in Remark	(s)	Shallow Aqu	
Inundation Vis ble on Aeri				FAC-Neutral	` '
Water-Stained Leaves (B)				noss (D8) (LRR T, U)
Field Observations:	Van Na B	and the Constraint			
Surface Water Present?	Yes No D		I		
Water Table Present?	Yes No D		I	and Uniduals and Duscon	42 Van Na
Saturation Present? (includes capillary fringe)	Yes No D	eptn (inches):	vvetia	and Hydrology Preser	nt? Yes No
Describe Recorded Data (stre	am gauge, monitoring well	l, aerial photos, pre	vious inspections),	if available:	
Remarks: Upland sample - No hydrology	nresent				
opiana sample - No nyarology	present				

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

Tree Stratum (Plot size: 30 ft r)				
ree Stratum (Plot size: 30 it i		Dominant		Dominance Test worksheet:
		Species?	FAC	Number of Dominant Species
1. Pinus taeda	30			That Are OBL, FACW, or FAC: 3 (A)
2. Ilex opaca	<u> 15</u>	<u> </u>	FAC	Total Number of Dominant
3. Quercus bicolor	5		FACW	Species Across All Strata: 4 (B)
4. Quercus falcata	5		FACU	Percent of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
<u> </u>	55% =	Total Cov	er	OBL species 0 x 1 = 0
50% of total cover: 28				FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)	20% 01	total cover.		FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size: 15 tc)	0	,	FACU	FACU species 13 x 4 = 52
	- 8 5		FAC	UPL species 0 x 5 = 0
2. Ilex opaca				Column Totals: 68 (A) 212 (B)
3				Column Totals. St. (A) 212 (B)
4				Prevalence Index = B/A = 3.1
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
·	13% -	Total Cov		1 💳
50% of total cover: 7				Problematic Hydrophytic Vegetation¹ (Explain)
	20% 01	total cover.		
Herb Stratum (Plot size: 5 ft r)				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
				1
6				Sanling/Shrub - Woody plants, excluding vines, less
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7		Total Cov	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7		Total Cov	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	= = 20% of	Total Cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	= = 20% of	Total Cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	= = 20% of	Total Cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	20% of	Total Cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7		= Total Cov total cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
6	= = 20% of	= Total Cov total cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
7		= Total Cover:	er	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirn	n the absence of i	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
0-6	7.5YR 4/3	100					Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
									
-									
¹Type: C=C	oncentration, D=De	nletion RM=F	Reduced Matrix MS	=Masked	Sand Gr	aine	2l ocation: Pl	=Pore Lining, M=Mat	iv
	Indicators: (Appli					amo.		Problematic Hydric	
Histosol			Polyvalue Be			RR S. T. I		k (A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
	stic (A3)		Loamy Muck					Vertic (F18) (outside	MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)	•		Floodplain Soils (F19	
	d Layers (A5)		Depleted Mat	rix (F3)				s Bright Loamy Soils	(F20)
	Bodies (A6) (LRR		Redox Dark S				☐ (MLRA1		
	ıcky Mineral (A7) (I		Depleted Dar		` '			nt Material (TF2)	
	esence (A8) (LRR	•	Redox Depre		8)			ow Dark Surface (TF	12)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och		(MI DA 1	E4\	Other (Exp	plain in Remarks)	
	ark Surface (A12)	ice (ATT)	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vege	etation and
ı =	rairie Redox (A16)	(MLRA 150A)	=		. , .		•	d hydrology must be p	
	Mucky Mineral (S1)		Delta Ochric			, -,		disturbed or problema	
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B))		
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	RA 149A, 153C, 15	(3D)	
	rface (S7) (LRR P,								
1	Layer (if observed ^	ı):							
Type: N/			_				I hadala Gall Bas	10 V	
Depth (in	cnes):		_				Hydric Soil Pre	esent? Yes	No
Remarks: No hydric so	il present								
140 Hydric 30	ii present								
									l
									l
									l
									l
									l
									l
I									

Project/Site: 1461		City/Coun	nty: Silas/Choctaw		Sampling Date: 2019-12-18
Applicant/Owner: NextEra					Sampling Point: UP2046/UP2047
Investigator(s):		Section 1	Township, Range:		
Landform (hillslope, terrace, etc	.v. Upland		ef (concave, convex, i	nono). Convex	Slope (%): 3
Subregion (LRR or MLRA): P	•			none). <u>Contox</u>	Datum: WGS 84
	Lat	:	Long:		
Soil Map Unit Name: RbD2					tion:
Are climatic / hydrologic condition					
Are Vegetation, Soil	, or Hydrology sig	nificantly disturbed	? Are "Normal	Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil	, or Hydrology naf	turally problematic?	? (If needed, e	xplain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map sl	howing sampli	ing point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes No				
Hydric Soil Present?	Yes No	10	the Sampled Area		
Wetland Hydrology Present?	Yes No	I WI	thin a Wetland?	Yes	No
Remarks:					
Upland sample associated with	wetland W2046 and W2047				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o		at apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aguatic F	auna (B13)			etated Concave Surface (B8)
High Water Table (A2)		osits (B15) (LRR U))	Drainage Pat	
Saturation (A3)		Sulfide Odor (C1)		Moss Trim Li	
Water Marks (B1)	Oxidized [Rhizospheres along	Living Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence	of Reduced Iron (C	(4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Recent Iro	on Reduction in Tille	ed Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck	Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		plain in Remarks)		Shallow Aqui	
Inundation Vis ble on Aeri				FAC-Neutral	` '
Water-Stained Leaves (B	9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No Depti		I		
Water Table Present?	Yes No Dept		l l		
Saturation Present? (includes capillary fringe)	Yes No Depti	n (inches):	Wetland H	ydrology Presen	t? Yes No
Describe Recorded Data (stre	am gauge, monitoring well, ae	rial photos, previou	us inspections), if avai	ilable:	
Remarks:					
Upland sample - No hydrology	present				
1					

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

Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant	Indicator	Dominance Test worksheet:
1. Pinus taeda		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Quercus falcata	10		FACU	
3.				Total Number of Dominant Species Across All Strata: 4 (B)
l				(2)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
3.				(
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
	40% =	= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 20	20% of	total cover:	8	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 35 x 3 = 105
Ulmus alata	8	✓	FACU	FACU species 18 x 4 = 72
. Ilex opaca	5	✓	FAC	UPL species $0 \times 5 = 0$
3				Column Totals: <u>53</u> (A) <u>177</u> (B)
4				Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
3.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
	13% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7	20% of	total cover:	3	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	=	Total Cov	er	
	20% of	total cover:		
50% of total cover:				l .
Woody Vine Stratum (Plot size: 30 ft r)				
Woody Vine Stratum (Plot size: 30 ft r)				
Woody Vine Stratum (Plot size: 30 ft r) 1 2				
50% of total cover:				
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3				Hydrophytic
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3 4				Hydrophytic Vegetation Present? Yes No

SOIL Sampling Point: UP2046/UP2047

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-6	7.5YR 4/4	100					Sandy loam			
6 - 20	10YR 4/4	100					Sandy loam			
-										
1 T		leties DM-0	Doduced Metric M	C-Maakad	Cand Ca		21	DI - Dono I	ining Manager	
	oncentration, D=Dep ndicators: (Applic					ains.			ining, M=Matri matic Hydric S	
		able to all L	_			DD C T II			-	oolis .
Histosol (ipedon (A2)		Polyvalue Be				. —	uck (A9) (I uck (A10)		
Black His			Loamy Muck						(LRR 5) 18) (outside N	NI DA 150A B)
	n Sulfide (A4)		Loamy Gleye			. 0)			ain Soils (F19)	
	Layers (A5)		Depleted Ma		1 2)			-	t Loamy Soils (F	
	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)			A 153B)	Louiny cons (i	20)
	cky Mineral (A7) (LI		Depleted Da					rent Mater	ial (TF2)	
	esence (A8) (LRR L		Redox Depre						k Surface (TF1:	2)
	ck (A9) (LRR P, T)	,	Marl (F10) (L		,			Explain in l	•	<i>'</i>
	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)				
Thick Da	rk Surface (A12)		☐ Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hyd	drophytic veget	ation and
Coast Pr	airie Redox (A16) (I	VILRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)	wetla	and hydrol	ogy must be pr	esent,
_	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ss disturbe	ed or problemat	tic.
	leyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Fk			•				
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (I	F20) (MLR	A 149A, 153C,	153D)		
	face (S7) (LRR P, S									
	.ayer (if observed)									
Type: <u>N//</u>			<u> </u>							
Depth (inc	:hes):						Hydric Soil I	Present?	Yes	No
Remarks:	l									
No hydric soi	present									

Project/Site: 1461	City/C	ounty: Silas/Choctaw		Sampling Date: 2019-12-19
Applicant/Owner: NextEra				Sampling Point: UP2048
Investigator(s):	Section	on, Township, Range:		
Landform (hillslope, terrace, etc.): Up		relief (concave, convex, n	none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P		Long:	<u> </u>	Datum: WGS 84
Soil Map Unit Name: BnE2			NWI classificat	tion:
Are climatic / hydrologic conditions or	n the site typical for this time of year? Y	es No (I	f no, explain in Re	emarks.)
Are Vegetation, Soil,	or Hydrology significantly disturt	bed? Are "Normal	Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil,	or Hydrology naturally problema		cplain any answer	
SUMMARY OF FINDINGS -	Attach site map showing sam	pling point location	ns, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes No <u></u> ✓	Is the Sampled Area		
Hydric Soil Present?	Yes No <u></u> ✓	within a Wetland?	Yes	No <u> </u>
Wetland Hydrology Present? Remarks:	Yes No <u></u>			
Upland sample associated with wetle	and W2048			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one			Surface Soil (
Surface Water (A1)	Aquatic Fauna (B13)			etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF		Drainage Pat	
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (0 Oxidized Rhizospheres a	· i	Moss Trim Li	Nater Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burn	
Drift Deposits (B3)	Recent Iron Reduction in		_ `	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic	
Iron Deposits (B5)	Other (Explain in Remark	s)	Shallow Aquit	tard (D3)
Inundation Vis ble on Aerial Ima	agery (B7)		FAC-Neutral	
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
I .	No _ ✓ Depth (inches):			
•	No ✓ Depth (inches):	I	uduala au Duana au	t? Yes No_ <u></u> ✓_
(includes capillary fringe)	No ✓ Depth (inches):			tr res No_ v _
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, pre	vious inspections), if avail	lable:	
Remarks:				
Upland sample - No hydrology prese	ent			

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

	ants.		Sampling Point: UP2048
	Dominant		Dominance Test worksheet:
<u>% Cover</u> 30	Species?	Status FAC	Number of Dominant Species
		FACU	That Are OBL, FACW, or FAC: 2 (A)
10	✓		Total Number of Dominant
			Species Across All Strata: 4 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 50 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species $0 \times 1 = 0$
			FACW species 0 x 2 = 0
_ 20% of	total cover:	8	
3	✓		I
5	✓	FAC	· — —
			Column Totals: <u>53</u> (A) <u>177</u> (B)
			Prevalence Index = B/A = 3.3
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			1 言
13% =	Total Cov		☐ 3 - Prevalence Index is ≤3.0¹
			Problematic Hydrophytic Vegetation¹ (Explain)
_ 20 % 01	total cover.		
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub - Woody plants, excluding vines, less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
=	Total Cov	er	
20% of	total cover:		
-			
	Tatal Cau		Hydrophytic
	Total Cov		Hydrophytic Vegetation Present? Yes No✓
	40% = 20% of 85 = 20% of 95 = 20% of 95 = 95 = 95 = 95 = 95 = 95 = 95 = 95	40% = Total Cover: 8	#40% = Total Cover 20% of total cover: 8 B

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirn	n the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	_
0-6	2.5Y 5/3	100					Sandy loam		_
6 - 20	2.5Y 5/4	100					Sandy loam		_
-									
-									_
									-
									-
-									_
	oncentration, D=De					ains.		Pore Lining, M=Matrix.	
l <u> </u>	Indicators: (Appli	cable to all L	_					Problematic Hydric Soils ³ :	
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				. —	(A9) (LRR O) (A10) (LRR S)	
Black Hi			Loamy Muck					ertic (F18) (outside MLRA 150A,	B)
_	n Sulfide (A4)		Loamy Gleye			. 0,		loodplain Soils (F19) (LRR P, S,	
	Layers (A5)		Depleted Mat		,			Bright Loamy Soils (F20)	1
	Bodies (A6) (LRR I		Redox Dark	•	•		(MLRA 15		
	icky Mineral (A7) (L		Depleted Dar					Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			w Dark Surface (TF12) ain in Remarks)	
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Oct		(MIRA 1	51)	Other (Expir	all ill Remarks)	
	ark Surface (A12)	00 (/ 1/ 1)	Iron-Mangan		•		T) ³ Indicators	of hydrophytic vegetation and	
l =	rairie Redox (A16) ((MLRA 150A)	=				•	hydrology must be present,	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					isturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo			,	49A) RA 149A, 153C, 153I	D)	
	rface (S7) (LRR P,	S. T. U)	Anomalous B	night Loai	ily Solls (rzu) (IVILR	(A 149A, 153C, 153	י <mark>ט</mark>	
	Layer (if observed	•							
Type: N/		,							
Depth (inc	ches):						Hydric Soil Pres	ent? Yes No <u>√</u>	_
Remarks:							1 -		_
No hydric soi	l present								

Project/Site: 1461	_ City/County: Silas	/Choctaw	Sampling Date: 2020-04-30
Applicant/Owner: NextEra			Sampling Point: UP2049
Investigator(s):	_ Section, Township,		
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:	Local Teller (corleav	Long:	Datum: WGS 84
Soil Map Unit Name: SmD			
•			ition:
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significan		Are "Normal Circumstances" p	oresent? YesNo
Are Vegetation, Soil, or Hydrology naturally I	problematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poir	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No ✓ No ✓	ls the Samp within a We		No
Remarks: Upland sample associated with wetland W2049			
LIVEROLOGY.			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		Surface Soil	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B Marl Deposits (B	•	Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	
	oheres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	· ·
	uction in Tilled Soils (0	C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	ce (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in	Remarks)	Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
☐ Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inche			
Water Table Present? Yes No _ ✓ Depth (inches Saturation Present? Yes No _ ✓ Depth (inches Saturation Present?)		Motter d Hudrele au Dresen	nt? Yes No ✓
(includes capillary fringe)			it? res Nov
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspect	ions), if available:	
Remarks: Upland sample - No hydrology present			
Spand sample Tromydrology procent			

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

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus falcata	10	✓	FACU	Total Number of Dominant
3				Species Across All Strata: 5 (B)
4.				(5)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				Prevalence Index worksheet:
7				
8				
	40% =	Total Cov	er	OBL species $\frac{0}{2}$ x 1 = $\frac{0}{2}$
50% of total cover: 20	20% of	total cover:	8	FACW species <u>0</u> x 2 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 35 x 3 = 105
1. Quercus falcata	10	✓	FACU	FACU species 28 x 4 = 112
2. Ulmus alata	8		FACU	UPL species <u>0</u> x 5 = <u>0</u>
				Column Totals: 63 (A) 217 (B)
3. Ilex opaca		<u> </u>	FAC	Column round.
4				Prevalence Index = $B/A = 3.4$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	23% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 12	20% of	total cover:	5	- Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30 ft r)				4
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or oze, and woody planto loss than o.25 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		Total Cov		
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2.				
3				
4				
5				Hydrophytic
		Total Cov	er	Vegetation Present? Yes No✓
50% of total cover:	20% of	total cover:		Present? Yes No _▼
Remarks: (If observed, list morphological adaptations belo	ow).			
No hydrophytic vegetation present	,			

Sampling Point: UP2049

Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	
0 - 6 2.5Y 5/3 100 Sandy loam	
6 - 20 2.5Y 6/3 100 Sandy loam	
- 	
<u> </u>	
<u> </u>	
•	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	riv
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric	
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ 1 cm Muck (A9) (LRR O)	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside	MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19)	
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils	(F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)	
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	40)
Muck Presence (A8) (LRR U) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) Uvery Shallow Dark Surface (TF	12)
Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Jopheled Science (A17) Iron-Manganese Masses (F12) (LRR O, P, T)	etation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problem	atic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Type: N/A	
Depth (inches): Hydric Soil Present? Yes	No_✓
Remarks:	110
No hydric soil present	

Project/Site: 1461 Lowman	City/County: Sila	s/Choctaw	Sampling Date: 2020-01-14					
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2050/UP2051/UP2052					
Investigator(s):	Section, Townshi							
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 3					
Subregion (LRR or MLRA): P Lat:	Eddar Felier (ediler	Long:	Datum: WGS 84					
Soil Map Unit Name: SmD		NWI classific						
	2 V V							
Are climatic / hydrologic conditions on the site typical for this time of y								
Are Vegetation, Soil, or Hydrology significantl			present? Yes <u>√</u> No					
Are Vegetation, Soil, or Hydrology naturally p	oblematic?	(If needed, explain any answe	ers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showin	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?								
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the San	npled Area	,					
Wetland Hydrology Present? Yes No✓	within a W	Vetland? Yes	No✓					
Remarks:	<u>' </u>							
Upland sample associated with wetlands W2050, W2051 and W2055	2							
HYDROLOGY								
Wetland Hydrology Indicators:			ators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)					
Surface Water (A1) Aquatic Fauna (B	•		getated Concave Surface (B8)					
High Water Table (A2) Marl Deposits (B1			atterns (B10)					
Saturation (A3) Hydrogen Sulfide Ovidinal Phisosophy	, ,	Moss Trim L	, ,					
☐ Water Marks (B1) ☐ Oxidized Rhizosp ☐ Sediment Deposits (B2) ☐ Presence of Redu	heres along Living	Crayfish Bu	Water Table (C2)					
	ction in Tilled Soils	= '	isible on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck Surface		· · -	Position (D2)					
Iron Deposits (B5) Other (Explain in		Shallow Aqu	· ·					
Inundation Vis ble on Aerial Imagery (B7)	•	FAC-Neutra						
☐ Water-Stained Leaves (B9)		Sphagnum r	moss (D8) (LRR T, U)					
Field Observations:								
Surface Water Present? Yes No ✓ Depth (inches								
Water Table Present? Yes No _✓ Depth (inches			,					
Saturation Present? Yes No ✓ _ Depth (inche: (includes capillary fringe)	s):	Wetland Hydrology Prese	nt? Yes No_✓					
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspe	ctions), if available:						
Remarks: Hydrology not present								
Tryansiogy not process.								

20.4-		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. llex opaca	30		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus alba	15	✓	FACU	Total Number of Dominant
3. Pinus taeda	5		FAC	Species Across All Strata: 4 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			,
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	50% =	Total Cov	er	OBL species $\frac{0}{0}$ x 1 = $\frac{0}{0}$
50% of total cover: 25	20% of	total cover:	10	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species <u>40</u> x 3 = <u>120</u>
1. Juniperus virginiana	15	✓	FACU	FACU species 30 x 4 = 120
2. Ilex opaca	5		FAC	UPL species 0 x 5 = 0
	0			Column Totals: <u>70</u> (A) <u>240</u> (B)
3	0			
4	<u> </u>			Prevalence Index = $B/A = \frac{3.4}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size: 5 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Total Manda destante evaluation visco 2 in (7.6 cm) on
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sanling/Shrub - Woody plants, evaluding vines, less
7	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 5.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
		Total Cov		
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No✓
		total oo for		
Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation not present	ow).			
hydrophytic vegetation not present				

SOIL Sampling Point: UP2000/JP2051/JP2052

Profile Desc	ription: (Describe	e to the depti	n needed to docun	nent the	indicator	or confirn	n the absence of ind	licators.)
Depth	Matrix	- 04		x Feature		1 2	T t	5
(inches) 0 - 3	Color (moist) 10YR 4/3	<u>%</u>	Color (moist)	<u>%</u>	Type.	Loc ²	Texture	Remarks
							Loam	
3-8	10YR 5/4	100					Loam	
8 - 20	7.5YR 4/6	100					Clay loam	
-								
1T. may 0=0		nletien DM-I	Dadward Matrix MS		d Cond Co		21 costion: DI -D	land Lining Manharativ
			Reduced Matrix, MS RRs, unless other			ains.		ore Lining, M=Matrix. roblematic Hydric Soils³:
Histosol		ouble to ull E	Polyvalue Be			RRSTI		•
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)
	stic (A3)		Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	D. T. IIV	Depleted Mat		-0 \			Bright Loamy Soils (F20)
_	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S				(MLRA 153	3B) Material (TF2)
	esence (A8) (LRR		Redox Depre		, ,			Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L		,			in in Remarks)
_	d Below Dark Surfa	ice (A11)	Depleted Och					
_	ark Surface (A12)	(MI DA 450A)	Iron-Mangane				•	of hydrophytic vegetation and
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa Delta Ochric			, 0)		ydrology must be present, sturbed or problematic.
_	Bleyed Matrix (S4)	(LITTO, O)	Reduced Ver			0A, 150B)		tabled of problematic.
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	RA 149A, 153C, 153D	0)
	rface (S7) (LRR P,							
_	_ayer (if observed	i):						
Type:	ches):		_				Hudric Soil Proce	ent? Yes No <u>√</u>
Remarks:							riyunc 3011 Frese	HIL: TesNO
Hydric soil no	ot present							

Project/Site: 1461 Lowman	City/County: Silas	/Choctaw	Sampling Date: 2020-01-14
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2053
Investigator(s):	Section, Township,		. •
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: SmD		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye	oor2 Von ✓ N		
		ا الله الله الله الله الله الله الله ال	
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr		lf needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing	ງ sampling poir	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No _✓	Is the Samp		No ✓
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a We	etiand? Yes	NO
Remarks:	•		
Upland sample associated with wetland W2053			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)		Drainage Pa	
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	neres along Living R		Water Table (C2)
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) 🔲 Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aqu	` '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		☐ Sphagnum n	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No✓ Depth (inches			
Water Table Present? Yes No _ ✓ Depth (inches	· I		
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspect	ions), if available:	
Remarks:			
Hydrology not present			

ree Stratum (Plot size: 30 ft r) Pinus taeda Liriodendron tulipifera Quercus nigra	% Cover 35 25 5	Species? ✓	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
Liriodendron tulipifera Quercus nigra	25	✓		That Are OBL, FACW, or FAC: 1 (A)
Quercus nigra		✓	FACU	
	5			Total Number of Dominant
·			FAC	Species Across All Strata: 3 (B)
	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 33 (A/B
3	0			
·	0			Prevalence Index worksheet:
S	0			Total % Cover of: Multiply by:
	65% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 33	20% of	total cover:	13	FACW species $\frac{0}{40}$ $\times 2 = \frac{0}{120}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species $\frac{40}{35}$ $\times 3 = \frac{120}{140}$
Liriodendron tulipifera	10	✓	FACU	FACU species 35 x 4 = 140
	0			UPL species $0 \times 5 = 0$
3.	0			Column Totals: <u>75</u> (A) <u>260</u> (B)
	0			Prevalence Index = B/A = 3.5
i	0			Hydrophytic Vegetation Indicators:
)	0			1 - Rapid Test for Hydrophytic Vegetation
	0			2 - Dominance Test is >50%
l	0			1
	10% =	Total Cov	er	☐ 3 - Prevalence Index is ≤3.0¹
50% of total cover: 5	20% of		_	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 5 ft r)		total cover.		1
·	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0			Definitions of Four Vegetation Strata:
	0			Definitions of Four Vegetation Strata.
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
·	0			more in diameter at breast height (DBH), regardless o height.
i	0			
)	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
·	0			
J	0			Herb – All herbaceous (non-woody) plants, regardless
0	0			of size, and woody plants less than 3.28 ft tall.
0	0			Woody vine – All woody vines greater than 3.28 ft in
1	0			height.
2				
		Total Cov		
50% of total cover:	20% of	total cover:		
Voody Vine Stratum (Plot size: 30 ft r)	0			
· 	- 0			
	- 0			
3	- 0			
k	- 0			
i				Hydrophytic
		Total Cov	er	Vegetation Present? Yes No _✓
50% of total cover:	20% of	total cover:		Flesent: lesNo

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	10YR 4/2	100					Loamy sand		
2 - 10	2.5Y 5/3	100					Sand		
10 - 20	2.5Y 6/3	100					Sand		
-									
<u> </u>									
	oncentration, D=De					ains.		Pore Lining, M=Mati	
1	Indicators: (Appli	cable to all L	_					roblematic Hydric	Soils':
Histosol			Polyvalue Be				. —	A9) (LRR O)	
	oipedon (A2)		Thin Dark Su	•				A10) (LRR S)	MI DA 450A D)
I =	stic (A3) n Sulfide (A4)		Loamy Muck			(0)		rtic (F18) (outside oodplain Soils (F19	
	Layers (A5)		Depleted Ma		(12)			Bright Loamy Soils	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		F6)		(MLRA 15		(1 20)
	icky Mineral (A7) (L		Depleted Da				`	Material (TF2)	
Muck Pr	esence (A8) (LRR	U)	Redox Depre				Very Shallov	v Dark Surface (TF	12)
1 cm Mu	ick (A9) (LRR P, T))	Marl (F10) (L	.RR U)			Other (Expla	in in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc						
_	ark Surface (A12)		Iron-Mangan				•	of hydrophytic vege	
	rairie Redox (A16)					, U)		nydrology must be p	_
	Mucky Mineral (S1) Bleyed Matrix (S4)	(LRR 0, 5)	Delta Ochric Reduced Ver			0A 150R)		sturbed or problema	auc.
	Redox (S5)		Piedmont Flo						
	Matrix (S6)					,	RA 149A, 153C, 153D	0)	
	rface (S7) (LRR P,	S, T, U)	_		,	, (, , , , , , , , , , , , , , , , , , , ,	,	
Restrictive	_ayer (if observed):							
Type:			_						
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>√</u>
Remarks:							•		
No Hydric so	il present								

Project/Site: 1461 Lowman	City/County: Silas	s/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra		State: Alabama	
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:	Essai Felier (sellea	Long:	Datum: WGS 84
Soil Map Unit Name: OkA		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of you	2 V V		
Are Vegetation, Soil, or Hydrology significantly		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	y sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sam	-	
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a W	etland? Yes	No✓_
Remarks:			
Upland sample associated with wetland W2054			
LIVEROL COV			
HYDROLOGY		On any described in	the section of the section of
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1) High Wester Table (A2)	•		getated Concave Surface (B8)
☐ High Water Table (A2) ☐ Marl Deposits (B19) ☐ Saturation (A3) ☐ Hydrogen Sulfide (Drainage Pa Moss Trim L	
	neres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bui	· ·
	ction in Tilled Soils (isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	Test (D5)
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ _ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	·):	Wetland Hydrology Prese	nt? Yes No_ <u>✓</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	tions), if available:	
Remarks: Hydrology not present			
I .			

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

50% of total cover: 28

50% of total cover: 13

50% of total cover: 3

10

0

0

0

0

0

0

0

0

0

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 15 ft r)

Herb Stratum (Plot size: 5 ft r)

1. Ostrya virginiana

3. Quercus alba

2. Carpinus caroliniana

1. Carpinus caroliniana

2. Ostrya virginiana

1. Ilex vomitoria

2.

Sampling Point: UP2054 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status Number of Dominant Species **FACU** That Are OBL, FACW, or FAC: 3 (A) FAC **Total Number of Dominant FACU** 5 ___ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: __ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species _ 20% of total cover: 11 40 ___ x 3 = 120 **FAC species** ___ x 4 = 180 45 FACU species FAC __ x 5 = 0 **UPL** species **FACU** Column Totals: 85 (A) = B/A = 3.5Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 20% of total cover: 5 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. = Total Cover 20% of total cover: 1 **Hydrophytic** = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: _____ 20% of total cover:

Domorko:	/If observed	list morphological	adaptations	holow
remarks.	(II observed,	list morphological	adaptations	below).
łydrophyti	c vegetation i	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Depth Matrix Redox Features Color (moist) % Type¹ Loc² Texture Remarks 0 - 3 10YR 2/2 100 Loamy sand 3 - 10 10YR 3/4 100 Sand 10 - 20 2.5Y 4/4 100 Sand
0 - 3
3 - 10 10YR 3/4 100 Sand 10 - 20 2.5Y 4/4 100 Sand
10 - 20 2.5Y 4/4 100 Sand
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils 3: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F16) (Outside MERA 190A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Under (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):
Type:
Depth (inches): No _ ✓ _
Remarks:
No Hydric soil present

Project/Site: 1461 Lowman		City/County: Silas	s/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra		, , , _		Sampling Point: UP2055/UP2056
Investigator(s):		Section, Township		
Landform (hillslope, terrace, etc.			ve, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P			Long:	Datum: WGS 84
Soil Map Unit Name: OkA	Lat.			
				ation:
	ons on the site typical for this time of ye			
	, or Hydrology significantly		Are "Normal Circumstances" p	oresent? Yes <u></u> No
Are Vegetation, Soil	, or Hydrology naturally pro	oblematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDING	S – Attach site map showing	sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Preser Hydric Soil Present?	Yes No <u>√</u> Yes No <u>√</u>	Is the Sam	-	No ✓
Wetland Hydrology Present?	Yes No <u></u> ✓	within a W	etiand? Yes	NO <u>*</u>
Remarks: Upland sample associated with	wetlands W2055 and W2056			
HYDROLOGY				
Wetland Hydrology Indicator	rs:		Secondary Indica	ators (minimum of two required)
	of one is required; check all that apply)		Surface Soil	
Surface Water (A1)	Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15	•	Drainage Pa	
Saturation (A3)	Hydrogen Sulfide (Moss Trim L	
Water Marks (B1)	— • •	neres along Living R		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduc	ced Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recent Iron Reduc	tion in Tilled Soils (C6) 🔲 Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5)	U Other (Explain in R	temarks)	Shallow Aqu	
Inundation Vis ble on Aeria			FAC-Neutral	` '
Water-Stained Leaves (B9	<i>)</i>)		<u></u> Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	Yes A Booth Cooker			
Surface Water Present?	Yes No _ ✓ Depth (inches)	·		
Water Table Present?	Yes No _ ✓ Depth (inches)		Wetland Hydrology Preser	42 Van Na 1
Saturation Present? (includes capillary fringe)	Yes No <u>✓</u> Depth (inches)):	wettand Hydrology Preser	nt? Yes No_ <u>√</u>
Describe Recorded Data (stream	am gauge, monitoring well, aerial photo	os, previous inspec	tions), if available:	
Remarks: Hydrology not present				

Sampling Point:	UP2055/UP2056
-----------------	---------------

T 01 1 20 1 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r) 1. Carpinus caroliniana	% Cover 25	Species? ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	20		FACU	That Are OBL, FACW, or FAC: 3 (A)
3	0		1700	Total Number of Dominant Species Across All Strata: 6 (B)
4	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	45% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: <u>23</u>	20% of	total cover	9	FACW species $\frac{25}{100}$ x 2 = $\frac{50}{100}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species 45 x 3 = 135
1. Carpinus caroliniana	15	✓	FAC	FACU species <u>45</u> x 4 = <u>180</u>
2 Juniperus virginiana	10	√	FACU	UPL species $0 \times 5 = 0$
3.	0			Column Totals: 115 (A) 365 (B)
4	0			Prevalence Index = B/A = 3.2
5.	0			
6.	0			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7.	0			2 - Dominance Test is >50%
8	0			l = .
<u> </u>	25%	Total Cov	er	- C T TOVAICHOO HINGON ID =0.0
50% of total cover: 13		total cover:	_	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 5 ft r)		total cover		1
1. Arundinaria tecta	25	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Fragaria virginiana	15		FACU	Definitions of Four Vegetation Strata:
3 Ilex vomitoria	5		FAC	
•	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
4	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 5.20 it tall.
10	- 0			Woody vine – All woody vines greater than 3.28 ft in
11	- 0			height.
12		Total Car		
500/ -51-1-1 23		Total Cov	_	
50% of total cover: 23	20% of	total cover		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	- 0			
2	- 0			
3	- 0			
4	- 0			
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No _ ✓
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations bel	ow).			
Hydrophytic vegetation not present				

SOIL Sampling Point: UP2055/UP2056

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-5	7.5YR 2.5/3	100					Loamy sand		
5 - 10	10YR 3/3	100					Sand		
10 - 20	10YR 3/4	100					Sand		
-									
<u> </u>									— I
									—
	oncentration, D=De					ains.	² Location: PL=F	Pore Lining, M=Matrix.	
	Indicators: (Appli	cable to all Li	_					roblematic Hydric Soils ³ :	
Histosol			Polyvalue Be				. —	A9) (LRR O)	
	oipedon (A2) istic (A3)		Thin Dark Su Loamy Muck					A10) (LRR S) rtic (F18) (outside MLRA 15	SOA B)
	en Sulfide (A4)		Loamy Gleye	•		. 0,		oodplain Soils (F19) (LRR P,	
	d Layers (A5)		Depleted Ma		(/			Bright Loamy Soils (F20)	, -, -,
	Bodies (A6) (LRR		Redox Dark				(MLRA 15	,	
	ıcky Mineral (A7) (L		Depleted Da					Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			v Dark Surface (TF12)	
	ıck (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L		(MIRA1	51)	Other (Expla	in in Remarks)	
	ark Surface (A12)	CC (ATT)	Iron-Mangan		•		. T) ³ Indicators	of hydrophytic vegetation an	d
	rairie Redox (A16)	(MLRA 150A)						hydrology must be present,	
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problematic.	
	Sleyed Matrix (S4)		Reduced Ver						
1 1	Redox (S5)		Piedmont Flo			•	•	N	
	Matrix (S6) rface (S7) (LRR P,	S T III	Anomalous E	sright Loa	my Solls (F20) (WILK	RA 149A, 153C, 153D))	
	Layer (if observed						T		
Type:		,.							
	ches):		_				Hydric Soil Prese	ent? Yes No	✓
Remarks:			_				.,		
No Hydric so	il present								

Project/Site: 1461 Lowman	hity/County: Silas/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra		Mabama Sampling Point: UP2057
Investigator(s):	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Upland	ocal relief (concave, convex, none):	Convex Slope (%): 1
Subregion (LRR or MLRA): P Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: OkA		I classification:
Are climatic / hydrologic conditions on the site typical for this time of ye		
Are Vegetation, Soil, or Hydrology significantly	isturbed? Are "Normal Circum:	stances" present? Yes <u>▼</u> No
Are Vegetation, Soil, or Hydrology naturally pr	lematic? (If needed, explain a	any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, tra	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area	
Wetland Hydrology Present? Yes No ✓	within a Wetland?	Yes No
Remarks:		
Upland sample associated with wetland W2057, W2103, AND W2104		
HYDROLOGY		
HYDROLOGY Western d Mudrels and Indicators	Sagara	dent Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		dary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B1)		rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)		ainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	_	oss Trim Lines (B16)
	· · ·	y-Season Water Table (C2)
Sediment Deposits (B2)		ayfish Burrows (C8)
	· · · —	turation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	C7) 🔲 Ge	omorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	marks)	allow Aquitard (D3)
Inundation Vis ble on Aerial Imagery (B7)	☐ FA	C-Neutral Test (D5)
Water-Stained Leaves (B9)	☐ Sp	hagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No✓ Depth (inches	• • • • • • • • • • • • • • • • • • •	
Water Table Present? Yes No ✓ Depth (inches	l	
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	Wetland Hydrolog	gy Present? Yes No _✓
Describe Recorded Data (stream gauge, monitoring well, aerial phot	, previous inspections), if available:	
Remarks:		
Hydrology not present		

ree Stratum (Plot size: 30 ft r) Juniperus virginiana Pinus taeda	25	Species?	Otatao		
Pinus taeda	20	✓	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	
	15	√	FAC		
	0			Total Number of Dominant Species Across All Strata: 4 (B)	
	0				
	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B	
	0			That Ale OBE, FACW, of FAC.	
	0			Prevalence Index worksheet:	
	0			Total % Cover of: Multiply by:	
	40%	Total Cov	er	OBL species 0 x 1 = 0	
50% of total cover: <u>20</u>	20% of total cover: 8		8	FACW species $0 \times 2 = 0$	
apling/Shrub Stratum (Plot size: 30 ft r)				FAC species 15 x 3 = 45	
Juniperus virginiana	10	✓	FACU	FACU species 90 x 4 = 360	
	0			UPL species 0 x 5 = 0	
	0			Column Totals: 105 (A) 405 (B)	
	0			Prevalence Index = B/A = 3.9	
	0				
	0			Hydrophytic Vegetation Indicators:	
	0			1 - Rapid Test for Hydrophytic Vegetation	
	0			2 - Dominance Test is >50%	
	10% :	Total Cov	er	☐ 3 - Prevalence Index is ≤3.0¹	
50% of total cover: _5		20% of total cover: 2		Problematic Hydrophytic Vegetation ¹ (Explain)	
erb Stratum (Plot size: 30 ft r)		total cover		1	
Trifolium pratense	45	/	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Quercus alba	10		FACU	Definitions of Four Vegetation Strata:	
	0			Definitions of Four Vegetation Strata.	
	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o	
	0			more in diameter at breast height (DBH), regardless of height.	
-	0			One line (Obsert - Manches Installant)	
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
	0				
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
<u> </u>	<u> </u>			or size, and woody plants less than 5.20 it tall.	
D	0			Woody vine – All woody vines greater than 3.28 ft in height.	
1 2.	- 0			neight.	
2		Total Cov			
50% of total cover: 28		total cover:			
/oody Vine Stratum (Plot size: 30 ft r)	20% 01	total cover.			
	0				
	0				
	$-\frac{\sigma}{0}$				
-	$-\frac{\sigma}{0}$				
	$-\frac{\sigma}{0}$				
	_ —			Hydrophytic	
500 / 26/21/21		= Total Cover		Vegetation Present? Yes No✓	
50% of total cover:		total cover	:		
emarks: (If observed, list morphological adaptations be	elow).				
drophytic vegetation not present					

Depth (inches) Matrix Redox Features 0 - 3 10YR 2/2 100 Loamy sand 3 - 10 10YR 3/4 100 Sand 10 - 20 2.5Y 4/4 100 Sand - - - - - - 1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ∏ Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)
0 - 3 10YR 2/2 100 Loamy sand 3 - 10 10YR 3/4 100 Sand 10 - 20 2.5Y 4/4 100 Sand - - - - - - - - - 1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³:
3 - 10 10YR 3/4 100 Sand 10 - 20 2.5Y 4/4 100 Sand
10 - 20 2.5Y 4/4 100 Sand
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Location: PL=Pore Lining, M=Matrix. 1 Indicators for Problematic Hydric Soils 3:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Historial (A1) Dohwalus Relaw Surface (S8) (LDD S. T. II) 1 cm Muck (A0) (LDD O)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Black Histic (A3) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F16) (Outside MERA 190A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Under (Explain in Remarks)
Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Iron-Manganese Masses (F12) (LRR O, P, T)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):
Type:
Depth (inches): No _ ✓ _
Remarks:
No Hydric soil present

Project/Site: 1461 Lowman	City/County: Silas/Choctaw Sar	mpling Date: 2020-01-15					
Applicant/Owner: NextEra	State: Alabama Sar						
Investigator(s) Section, Township, Range:							
Landform (hillslope, terrace, etc.): Upland	_ocal relief (concave, convex, none): Convex	Slope (%): 3					
Subregion (LRR or MLRA): P Lat:	Long:	Datum: WGS 84					
Soil Map Unit Name: MdA	Long. NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly disturbed?							
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
${\color{red} {\tt SUMMARY\ OF\ FINDINGS-Attach\ site\ map\ showing\ sampling\ point\ locations,\ transects,\ important\ features,\ etc.}}$							
Hydrophytic Vegetation Present? Yes No _ ✓							
Hydrophytic Vegetation Present? Yes No✓ Hydric Soil Present? Yes No✓	Is the Sampled Area	/					
Wetland Hydrology Present? Yes No _✓	within a Wetland? Yes	No					
Remarks:							
Upland sample associated with wetlands W2058 and W2059							
LIVEROL COV							
HYDROLOGY	Occasional Indicators	(minimum of the mount of the state of the st					
Wetland Hydrology Indicators:		(minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)							
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave S Action (B48)							
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)							
Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dy-Season Water Table (C2)							
Sediment Deposits (B2) Presence of Redu							
	_ ·	e on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck Surface	-						
☐ Iron Deposits (B5) ☐ Other (Explain in	emarks)	Shallow Aquitard (D3)					
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test	FAC-Neutral Test (D5)					
☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)							
Field Observations:							
Surface Water Present? Yes No Depth (inches	l						
Water Table Present? Yes No ✓ _ Depth (inches	l	I					
Saturation Present? Yes No ✓ Depth (inchest (includes capillary fringe)	Wetland Hydrology Present?	Wetland Hydrology Present? Yes No _✓					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: Hydrology not present							
1							

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

Sampling	Point:	UP2058/UP2059

<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) _{1.} Pinus taeda	0/ 0		Indicator	Dominance Test worksheet:
1. Fillus taeua	% Cover 25	Species?	FAC	Number of Dominant Species
Lucia a manada da				That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	10		FACU	Total Number of Dominant
3	0			Species Across All Strata: 7 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 18	20% of	total cover	7	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 35 x 3 = 105
1. Juniperus virginiana	10	✓	FACU	FACU species 40 x 4 = 160
2. Acer rubrum	5		FAC	UPL species 0 x 5 = 0
3. Celtis occidentalis	5		FACU	Column Totals: <u>75</u> (A) <u>265</u> (B)
	0			
4	0			Prevalence Index = $B/A = 3.5$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Fragaria virginiana	15	✓	FACU	be present, unless disturbed or problematic.
2. Ilex vomitoria	5	$\overline{}$	FAC	Definitions of Four Vegetation Strata:
3.	0			_
	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	20% =	Total Cov	er	
50% of total cover: 10	20% of	total cover	4	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
<u>4</u>	0			
3	0			
4	- 0			
				Hydrophytic
5		Total Cov	er	Vegetation
5				
5 50% of total cover:	20% of	total cover		Present? Yes No

SOIL Sampling Point: UP2058/UP2059

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u> %</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-5	10YR 2/2	100					Loamy sand		
5 - 13	10YR 4/4	100					Sand		
13 - 20	10YR 4/6	100					Sand		
-									
<u> </u>									
	oncentration, D=De					ains.	² Location: PL=F	Pore Lining, M=Matrix.	3
	Indicators: (Appl	icable to all Li	_					roblematic Hydric So	oils":
Histosol	(A1) pipedon (A2)		Polyvalue Be				. —	A9) (LRR O) A10) (LRR S)	
· •	istic (A3)		Loamy Muck					rtic (F18) (outside MI	RA 150A.B)
	en Sulfide (A4)		Loamy Gleye	•	. , .	. •,		oodplain Soils (F19) (I	
	d Layers (A5)		Depleted Ma		, ,			Bright Loamy Soils (F	
	Bodies (A6) (LRR		Redox Dark				(MLRA 15	,	
	ıcky Mineral (A7) (I		Depleted Da					Material (TF2)	
	esence (A8) (LRR uck (A9) (LRR P, T		Redox Depre		8)			v Dark Surface (TF12) in in Remarks))
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)	Other (Expla	illi ili Remarks)	
	ark Surface (A12)	(, , ,	Iron-Mangan		•		T) ³ Indicators	of hydrophytic vegeta	tion and
	rairie Redox (A16)		Umbric Surfa	ce (F13)	(LRR P, T	, U)	wetland h	nydrology must be pre	sent,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problemation	э.
	Gleyed Matrix (S4)		Reduced Ver						
1 1	Redox (S5) Matrix (S6)		Piedmont Flo		, ,	•	49A) RA 149A, 153C, 153[2)	
	rface (S7) (LRR P,	S, T, U)	Anomalous	mgm Loa	my cons (20) (MILI	(4 1404, 1000, 1001	-,	
	Layer (if observed								
Type:			_						
Depth (in	ches):		_				Hydric Soil Prese	ent? Yes	No <u>√</u>
Remarks:									
No Hydric so	il present								
1									

Project/Site: 1461 Lowman	City/County: Sila:	s/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra		State: Alabama	
Investigator(s)	Section, Township		- Camping Cont.
Landform (hillslope, terrace, etc.): Upland	-	ave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: MdA			
		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significant		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling po	int locations, transects	s, important features, etc.
Lhydrophytia Vogotation Dropont2			
Hydrophytic Vegetation Present? Yes No✓ Hydric Soil Present? Yes No✓	- Is the Sam	-	,
Wetland Hydrology Present? Yes No ✓	within a W	/etland? Yes	No <u>✓</u>
Remarks:	<u> </u>		
Upland sample associated with wetlands W2060			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Cracks (B6)
Surface Water (A1)	•		getated Concave Surface (B8)
High Water Table (A2) High Water Table (A2)			atterns (B10)
Saturation (A3) Hydrogen Sulfide	, ,	Moss Trim L	, ,
	heres along Living F		Water Table (C2)
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu	iced fron (C4) iction in Tilled Soils	Crayfish But	riows (Co) risible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		· · -	Position (D2)
Iron Deposits (B5) Other (Explain in		☐ Shallow Aqu	· ·
Inundation Vis ble on Aerial Imagery (B7)	,	FAC-Neutra	
Water-Stained Leaves (B9)		Sphagnum r	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inche			
Water Table Present? Yes No✓ Depth (inche			
Saturation Present? Yes No✓ Depth (inche (includes capillary fringe)	s):	Wetland Hydrology Prese	nt? Yes No_✓
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspec	tions), if available:	
Remarks: Hydrology not present			
Trydisiogy not process			

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

1. Pinus taeda

1. Ilex opaca

2. Juniperus virginiana

1 Fragaria virginiana

2 Lonicera japonica

3. Ilex vomitoria

2. Quercus falcata

Sampling Point: UP2060 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r) % Cover Species? Status **Number of Dominant Species** FAC That Are OBL, FACW, or FAC: _____(A) FACU 15 **Total Number of Dominant** 0 6 ___ (B) Species Across All Strata: 0 Percent of Dominant Species That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0**OBL** species 40% = Total Cover x 2 = 0 **FACW** species 50% of total cover: 20 20% of total cover: 8 ___ x 3 = 135 **FAC species** Sapling/Shrub Stratum (Plot size: 30 ft r) x 4 = 180 45 FACU species FAC __ x 5 = 0 **UPL** species **FACU** Column Totals: 90 (A) 0 = B/A = 3.5Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ 20% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 10 20% of total cover: 4 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. **FACU Definitions of Four Vegetation Strata: FAC** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. = Total Cover 50% of total cover: 15 20% of total cover: 6 Woody Vine Stratum (Plot size: 30 ft r) 0 Hydrophytic = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 20% of total cover:

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

Hydrophytic vegetation not present. 25 percent bare ground/open canopy

SOIL Sampling Point: UP2060

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-6	10YR 2/2	100					Loamy sand		
6 - 12	10YR 4/4	100					Sand		
12 - 20	10YR 4/6	100					Sand		
-									_
									_
									
	oncentration, D=De					ains.		Pore Lining, M=Matr	
l <u> </u>	Indicators: (Appli	cable to all Li	_					roblematic Hydric	Soils*:
Histosol			Polyvalue Be				. —	A9) (LRR O)	
	oipedon (A2)		Thin Dark Su	•				A10) (LRR S)	MI DA 450A D\
I =	stic (A3) n Sulfide (A4)		Loamy Muck			(0)		rtic (F18) (outside l podplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(12)			Bright Loamy Soils (
	Bodies (A6) (LRR	P. T. U)	Redox Dark		- 6)		(MLRA 15	-	. 20)
	icky Mineral (A7) (L		Depleted Da				`	Material (TF2)	
	esence (A8) (LRR		Redox Depre					v Dark Surface (TF1	2)
1 cm Μι	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Expla	in in Remarks)	
Deplete	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
_	ark Surface (A12)		Iron-Mangan				•	of hydrophytic vege	
	rairie Redox (A16)					, U)		ydrology must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			0.4 4500)		sturbed or problema	itic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver						
	Matrix (S6)		Piedmont Flo			,	+9A) RA 149A, 153C, 153[))	
	rface (S7) (LRR P,	S. T. U)	Anomalous	mgm Loa	iny cons (20) (WEI	(4 1404, 1000, 1001	-1	
	Layer (if observed								
Type:			_						
Depth (in	ches):		<u> </u>				Hydric Soil Prese	ent? Yes	No <u>√</u>
Remarks:									
No Hydric so	il present								

Project/Site: 1461 Lowman	City/County: Silas	s/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra	, , ,	State: Alabama	Sampling Point: UP2061
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:	`	Long:	Datum: WGS 84
Soil Map Unit Name: BrF		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y	roor2 Von ✓ I		
		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology significant!			
Are Vegetation, Soil, or Hydrology naturally p	oblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling po	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓			
Hydric Soil Present? Yes No _✓	Is the Sam	-	No✓_
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a W	vetiand? Yes	No
Remarks:	•		
Upland sample associated with wetlands W2061			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	•		Cracks (B6)
Surface Water (A1) Aquatic Fauna (B			getated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B1)	•		atterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	heres along Living F		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	
☐ Drift Deposits (B3) ☐ Recent Iron Redu	ction in Tilled Soils	(C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in	Remarks)	Shallow Aqu	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
Water-Stained Leaves (B9)		<u> </u>	moss (D8) (LRR T, U)
Field Observations:	- > -		
Surface Water Present? Yes No ✓ Depth (inchest Water Table Present? Yes No ✓ Depth (inchest Present?			
Saturation Present? Yes No V Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			ntr res Nov
Describe Recorded Data (stream gauge, monitoring well, aerial photos	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			
1			

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

50% of total cover: 23

10

10

10

10

5

0

0

0

10

5

5

0

0

0

0

250/

✓

= Total Cover

20% of total cover: 9

FAC

FAC

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

1. Fagus grandifolia

2. Liriodendron tulipifera

3. Magnolia virginiana

Pinus taeda

5. Prunus serotina

1. Fagus grandifolia

4 Ostrya virginiana

3. Ilex opaca

2. Fraxinus pennsylvanica

Sampling Point: UP2061 Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status **Number of Dominant Species** FACU That Are OBL, FACW, or FAC: ____ (A) **FACU Total Number of Dominant FACW** 10 ____ (B) Species Across All Strata: Percent of Dominant Species FACU 40 That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: **OBL** species x 2 = 30 FACW species 20 ___ x 3 = 60 FAC species x 4 = 260 65 **FACU** species **FACU** 0 x = 0**UPL** species FACW Column Totals: 100 (B) _ (A) FACU Prevalence Index = B/A = 3.5Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹

	25%	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% o	f total cover	<u>.</u> 5	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Fragaria virginiana	15	✓	FACU	be present, unless disturbed or problematic.
2. Lonicera japonica	10	✓	FACU	Definitions of Four Vegetation Strata:
3. Ilex vomitoria	5		FAC	
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			, negnt
16.	30%	= Total Co	/er	·
50% of total cover: 15		f total cover	_	
Woody Vine Stratum (Plot size: 30 ft r)		i total cover		·
1	0			
2.	0			
	0			•
3	0			
4	0			•
5		- T-4-1 O		Hydrophytic Vegetation
500/ - 61 - 1-1		= Total Co		Present? Yes No
		f total cover	:	
50% of total cover: Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present. 25 percent bare grour	low).			Present? Yes No
IS Army Corps of Engineers				Atlantic and Gulf Coastal Plain Region – Version 2.0

SOIL Sampling Point: UP2061

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confir	n the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	10YR 3/2	100					Loam		
2-6	10YR 4/4	100					Sand		
16 - 20	10YR 4/6	100					Sand		
-									_
									
-									
	oncentration, D=D					ains.	Location: PL=F	Pore Lining, M=Matri	X.
	Indicators: (Appl	licable to all Li	_			DD 6 T 1		Problematic Hydric S	Solis":
Histosol	(A1) pipedon (A2)		Polyvalue Be					(A9) (LRR O) (A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside N	/ILRA 150A.B)
	en Sulfide (A4)		Loamy Gleye	•		,		loodplain Soils (F19)	
	d Layers (A5)		Depleted Ma				Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark				(MLRA 15	,	
	icky Mineral (A7) (Depleted Da					Material (TF2) w Dark Surface (TF1	2)
	esence (A8) (LRR uck (A9) (LRR P, T		Redox Depre		0)			w Dark Surface (1F1) ain in Remarks)	2)
	d Below Dark Surfa	•	Depleted Oc		(MLRA 1	51)	Cirior (Expire	an in Romanco,	
	ark Surface (A12)	, ,	Iron-Mangan		•		, T) ³ Indicators	of hydrophytic veget	ation and
	rairie Redox (A16)					, U)		hydrology must be pr	
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			04 4500		isturbed or problema	tic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver						
	Matrix (S6)		$\overline{}$			•	RA 149A, 153C, 153I	D)	
1 1	rface (S7) (LRR P	, S, T, U)	_	J	,	, (,,	,	
Restrictive	Layer (if observed	d):							
Type:			_						
Depth (in	ches):		_				Hydric Soil Pres	ent? Yes	No <u> </u>
Remarks:							1		
No Hydric so	il present								
									l
									l
									l
I									

Project/Site: 1461 Lowman	City/County: Silas	s/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra	,	State: Alabama	Sampling Point: UP2062/UP2063/UP2064
Investigator(s)	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:	Zoodi Folior (oolio	Long:	Datum: WGS 84
Soil Map Unit Name: BrF		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye	oar2 Ves ✓ I		
			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling po	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sam	-	
Wetland Hydrology Present? Yes No✓	within a W	retiand? Yes	No <u>_</u>
Remarks:	•		
Upland Sample point associated with wetlands W2062/W2063/W206	4		
HYDROLOGY			
		Secondary Indic	ators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1)			getated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B1)	•		atterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	neres along Living F		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	
Drift Deposits (B3)	tion in Tilled Soils	(C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in F	(emarks)	Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
☐ Water-Stained Leaves (B9)		☐ Sphagnum r	noss (D8) (LRR T, U)
Field Observations:	.		
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No _ ✓ Depth (inches Saturation Present? Yes No _ ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			ntr resNov
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Pamarka			
Remarks: Hydrology not present			
1			

20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Ilex opaca	10		FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant
3. Fagus grandifolia	5	✓	FACU	Species Across All Strata: 11 (B)
4. Liriodendron tulipifera	5		FACU	Percent of Dominant Species
5. Magnolia virginiana	5		FACW	That Are OBL, FACW, or FAC: 64 (A/B)
6. Pinus taeda	5	✓	FAC	
7. Populus deltoides	5	✓	FAC	Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	45% =	Total Cov	er	OBL species $\frac{0}{5}$ $\times 1 = \frac{0}{10}$
50% of total cover: 23	20% of	total cover:	9	FACW species $\frac{5}{x^2}$ $x^2 = \frac{10}{x^2}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>40</u> x 3 = <u>120</u>
1. Ilex opaca	5	✓	FAC	FACU species <u>20</u> x 4 = <u>80</u>
2. Ostrya virginiana	5		FACU	UPL species 0 x 5 = 0
3. Oxydendrum arboreum	5		FACU	Column Totals: 65 (A) 210 (B)
4. Populus deltoides	5		FAC	
"	0		170	Prevalence Index = $B/A = 3.2$
5	0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3.	0			
	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 5 m. bbrrana greater than 5.25 k (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0			
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
3.	0			
4.	0			
5	0			
·		Total Cov	or.	Hydrophytic Vegetation
500/ -54-4-1				Present? Yes No✓
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			
Hydrophytic vegetation not present				

SOIL Sampling Point: UP2002/UP2083UP2084

Profile Desc	cription: (Describe	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-2	10YR 3/1	100					Loam	
2 - 20	7.5YR 4/4	100					Loamy sand	
-								
-								
	oncentration, D=De					ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Appli	icable to all LF						Problematic Hydric Soils ³ :
Histosol			Polyvalue Be				. —	(A9) (LRR O)
	pipedon (A2) istic (A3)		Thin Dark Su Loamy Muck					(A10) (LRR S) /ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		(0)		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		()			Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark		- 6)		(MLRA 1	
	ucky Mineral (A7) (I		Depleted Da	rk Surface	e (F7)			t Material (TF2)
	resence (A8) (LRR		Redox Depre		8)			ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L		(MI DA 4	=4\	U Other (Exp	lain in Remarks)
	d Below Dark Surfa ark Surface (A12)	ice (A11)	Depleted Oc		•		T) ³ Indicator	s of hydrophytic vegetation and
	rairie Redox (A16)	(MLRA 150A)					•	hydrology must be present,
	Mucky Mineral (S1)		Delta Ochric			, •,		disturbed or problematic.
_	Gleyed Matrix (S4)	, ,	Reduced Ver			0A, 150B)		,
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	19A)	
1 1	l Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	RA 149A, 153C, 153	3D)
	rface (S7) (LRR P,							
	Layer (if observed	i):						
Type:	-h \		_				I best of Coll Dec	
	ches):		<u> </u>				Hydric Soil Pres	sent? Yes No <u>✓</u>
Remarks: Hydric soil n	ot present							
	or process.							

Project/Site: 1461 Lowman	City/County: Silas/0	Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2065/UP2066
Investigator(s):	Section, Township, I		
Landform (hillslope, terrace, etc.): Upland		e, convex, none): Convex	Slone (%): 3
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: OkA		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significantly			resent? YesNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	յ sampling poin	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Veg No V			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampl		,
Wetland Hydrology Present? Yes No _✓	within a Wet	tland? Yes	No✓
Remarks:			
Upland Sample point associated with wetlands W2065/W2066			
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1)	•		etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1:		Drainage Pat	
Saturation (A3) Hydrogen Sulfide	, ,	Moss Trim Li	, ,
☐ Water Marks (B1) ☐ Oxidized Rhizospl ☐ Sediment Deposits (B2) ☐ Presence of Redu	neres along Living Ro	Crayfish Burr	Water Table (C2)
	ction in Tilled Soils (C	= '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		_	Position (D2)
Iron Deposits (B5) Other (Explain in F		Shallow Aqui	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No _✓ Depth (inches	· ·		
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	;): \ \	Wetland Hydrology Presen	t? Yes No <u></u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspection	ons), if available:	
Remarks: Hydrology not present			
I i jaiology not process			

VEGETATION (Four Strata) – Use scientific na
--

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1. Andropogon virginicus 2. Trifolium pratense 3. Cirsium vulgare 4. Carex stipata

	Absolute	Dominant	Indicator	Sampling Point: UP2065/UP20 Dominance Test worksheet:
)		Species?		Number of Dominant Species
	0			That Are OBL, FACW, or FAC: 1 (A)
	0			Total Number of Dominant
	0			Species Across All Strata: 2 (B)
	0			Descent of Deminent Species
	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B
	0			· · · · · · · · · · · · · · · · · · ·
	0			Prevalence Index worksheet:
	0			Total % Cover of: Multiply by:
	:	= Total Co	ver	OBL species $\frac{5}{0}$ $\times 1 = \frac{5}{0}$
% of total cover:	20% of	total cover	:	FACW species $\frac{0}{100}$ x 2 = $\frac{0}{100}$
30 ft r				FAC species 60 x 3 = 180
	0			FACU species 35 x 4 = 140
	0			UPL species $\frac{0}{400}$ x 5 = $\frac{0}{205}$
	0			Column Totals: 100 (A) 325 (B)
	0			Prevalence Index = B/A = 3.3
	0			Hydrophytic Vegetation Indicators:
	0			
	0			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	0			
		= Total Cov	ver	3 - Prevalence Index is ≤3.0¹
% of total cover:				Problematic Hydrophytic Vegetation¹ (Explain)
)				11-4:
	60	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	20		FACU	Definitions of Four Vegetation Strata:
	15		FACU	
	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
	0			height.
	0			Souther (Shouth -) Meady plants available views leave
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			
	0			Woody vine – All woody vines greater than 3.28 ft in height.
	0			noght
	4000/	Total Cov	/er	
% of total cover: 50		total cover		
) ft r	20% 01	total covel		
	0			
	0			
	0			
	0			
	0			
		Total Car		Hydrophytic Vegetation
0/ -54-4-1		= Total Cov		Present? Yes No
% of total cover:	20% of	total cover	:	

Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation not present

Woody Vine Stratum (Plot size: 30 ft r)

SOIL Sampling Point: UP2065/UP2066

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of ind	dicators.)
Depth	Matrix	- 0/		x Feature		1 2	Testoni	Damada
(inches) 0 - 4	Color (moist) 10YR 3/1	_ <u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²		Remarks
4 - 20	7.5YR 4/4	100					Loamy sand	
-								
17			and and Matrix MC				21	Name I feelings Administration
	oncentration, D=De Indicators: (Appli					ains.		ore Lining, M=Matrix. roblematic Hydric Soils³:
Histosol		ouble to un E	Polyvalue Be			RRSTI		•
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)
Black Hi			Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	D T 11)	Depleted Mat		-0)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S Depleted Dar				(MLRA 153	3B) Material (TF2)
	esence (A8) (LRR		Redox Depre					v Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L	•	,			in in Remarks)
_	d Below Dark Surfa	ce (A11)	Depleted Och					
_	ark Surface (A12)	(BAL DA 450A)	Iron-Mangane				•	of hydrophytic vegetation and
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa Delta Ochric			, 0)		lydrology must be present, sturbed or problematic.
_	Bleyed Matrix (S4)	(LIKIT O, O)	Reduced Ver			0A, 150B)		starbed of problematic.
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D	0)
	rface (S7) (LRR P,						1	
	_ayer (if observed):						
Type:	ches):		_				Hudrin Soil Broom	ent? Yes No_✓
Remarks:	cries).		_				Hydric Soil Frese	entr resNo
Hydric soil no	ot present							

Project/Site: 1461 Lowman	City/County: Silas/Choctaw Sampling Date: 2020-01-16
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2067/UP2068/UP2069
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 1
Subregion (LRR or MLRA): P Lat:	Long: Datum: WGS 84
Soil Map Unit Name: IZA	
•	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	
	atly disturbed? Are "Normal Circumstances" present? Yes <u>✓</u> No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wetland? Yes No✓
Remarks:	-
Upland Sample point associated with wetland W2067, W2069 and	W2069
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (I	B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	e Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizos	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	<u> </u>
 	luction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
Iron Deposits (B5) Under (Explain in	
Inundation Vis ble on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inch	pe).
Water Table Present? Yes No _✓ Depth (inch	
Saturation Present? Yes No ✓ Depth (inch	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
Hydrology not present	

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

Sampling Point: UP2087/UP2088/UP2089

T 0 30 ft r			Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species	Status	Number of Dominant Species
1			· ——	That Are OBL, FACW, or FAC: 1 (A)
2	_ 0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6.	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Co	ver	OBL species 0 x 1 = 0
50% of total cover:	20% of	total cove	r:	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 60 x 3 = 180
1	0			FACU species <u>55</u> x 4 = <u>220</u>
	0			UPL species 0 x 5 = 0
2	0			Column Totals: 115 (A) 400 (B)
3	- 0			
4	- 0			Prevalence Index = $B/A = 3.5$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	=	Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Schedonorus arundinaceus	60	✓	FAC	be present, unless disturbed or problematic.
2. Trifolium pratense	40	√	FACU	Definitions of Four Vegetation Strata:
3. Cirsium vulgare	15		FACU	
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	0		· ——	more in diameter at breast height (DBH), regardless of height.
5	0			
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	- 0			than 3 iii. DBH and greater than 3.20 it (1 iii) tan.
8	- 0			Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	115% =	Total Co	ver	
50% of total cover: 58	20% of	total cove	_{r:} 23	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
3.	0			
	0			
4	0			
5			. ——	Hydrophytic
		Total Co		Vegetation Present? Yes No✓_
50% of total cover:	20% of	total cove	r:	110301111 11031103
Remarks: (If observed, list morphological adaptations bel	low).			•
Hydrophytic vegetation not present				

SOIL Sampling Point: UP2067/UP2088UP2089

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	100					Loam	
4 - 20	7.5YR 4/4	100					Loamy sand	
-								
-								
				- —				
								
				- ——				
-								
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all Li	RRs, unless othe	rwise not	ed.)		Indicators for	r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be				. —	k (A9) (LRR O)
	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)
	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside MLRA 150A,B
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(F2)			Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR	D T II)	Redox Dark		6)		(MLRA	is Bright Loamy Soils (F20)
	icky Mineral (A7) (L		Depleted Da				_ ,	nt Material (TF2)
	esence (A8) (LRR		Redox Depre					llow Dark Surface (TF12)
	ıck (A9) (LRR P, T)		Marl (F10) (L		,			plain in Remarks)
Deplete	d Below Dark Surfa	ce (A11)	■ Depleted Oc	hric (F11)	(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangan				•	ors of hydrophytic vegetation and
	rairie Redox (A16)					', U)		d hydrology must be present,
_	Mucky Mineral (S1) Bleyed Matrix (S4)	(LRR O, S)	Delta Ochric			OA 150D)		disturbed or problematic.
	Redox (S5)		Reduced Ver					
	Matrix (S6)					•	RA 149A, 153C, 15	53D)
	rface (S7) (LRR P,	S, T, U)	_			, ,		•
Restrictive	Layer (if observed):						
Type:			_					
Depth (in	ches):		_				Hydric Soil Pre	esent? Yes No✓
Remarks:							•	
Hydric soil no	ot present							

Project/Site: 1461 Lowman	City/County: Nee	dham/Choctaw	Sampling Date: 2020-01-18
Applicant/Owner: NextEra		State: Alaban	na Sampling Point: UP2070/UP2071
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ive, convex_none). Conve	XSlope (%): 1
Subregion (LRR or MLRA): P Lat:	· ·	ong:	Datum: WGS 84
Soil Map Unit Name: BnE2		NWI classi	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of ye			
			s" present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr		(If needed, explain any ans	
SUMMARY OF FINDINGS – Attach site map showing	յ sampling poi	int locations, transed	cts, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sam	-	No <u>✓</u>
Wetland Hydrology Present? Yes No _✓	within a W	retiand? Yes_	NO <u> </u>
Remarks:	•		
Upland sample associated with wetlands W2070 and W2071			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	licators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			oil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1)			Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B19)	•		Patterns (B10)
Saturation (A3) Hydrogen Sulfide			n Lines (B16)
	neres along Living F		on Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish E	Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils ((C6) 🔲 Saturation	No Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7)	Geomorp	hic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	(emarks)	=	quitard (D3)
Inundation Vis ble on Aerial Imagery (B7)			tral Test (D5)
Water-Stained Leaves (B9)		<u>Ll</u> Sphagnur	m moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No✓ Depth (inches	۸۰		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Pre	sent? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

Sampling	Point:	UP2070/UP2071

Tree Stratum (Plot size: 30 ft r)		Dominant		Dominance Test worksheet:
1. Pinus taeda	25	Species? ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Quercus alba	20		FACU	That Are OBL, FACW, or FAC: 3 (A)
3. Ilex opaca	15		FAC	Total Number of Dominant
	5		FACU	Species Across All Strata: 7 (B)
4. Juniperus virginiana			FACU	Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/B)
6	0			Prevalence Index worksheet:
7	0			
8	0			
	65% :	Total Cov	er	OBE species X 1 =
50% of total cover: 33	20% of	total cover:	13	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 $\times 3 = 150$
1. Ilex opaca	10	✓	FAC	FACU species $\frac{50}{2}$ $\times 4 = \frac{200}{2}$
2. Quercus alba	10	✓	FACU	UPL species $0 \times 5 = 0$
3. Fagus grandifolia	5	─ ✓	FACU	Column Totals: 100 (A) 350 (B)
4.	0			B
5.	0			Prevalence Index = B/A = 3.5
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
42		Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	5	
Herb Stratum (Plot size: 30 ft r)	40			¹ Indicators of hydric soil and wetland hydrology must
1. Quercus alba		✓	FACU	be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Hert All hert consultant and all the second leads
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
12				
5		Total Cov	_	
50% of total cover: 5	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	- 0			
2				
3	0			
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No✓
Remarks: (If observed, list morphological adaptations believed)	ow).			<u> </u>
Hydrophytic vegetation not present	,-			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

SOIL Sampling Point: UP2070/UP2071

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u> %</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-1	10YR 2/2	100					Loamy sand		
1 - 10	10YR 3/3	100					Sand		
10 - 20	2.5Y 4/3	100					Sand		
-									
<u> </u>									
<u> </u>									
	oncentration, D=De					ains.	² Location: PL=F	Pore Lining, M=Matrix	
	Indicators: (Appl	icable to all LF	_					roblematic Hydric S	oils³:
Histosol			Polyvalue Be				. —	A9) (LRR O)	
	pipedon (A2)		Thin Dark Su Loamy Muck					A10) (LRR S)	LBA 450A B)
	istic (A3) en Sulfide (A4)		Loamy Gleye	•	. , .	(0)		rtic (F18) <mark>(outside M</mark> oodplain Soils (F19) (
	d Layers (A5)		Depleted Ma		(1 2)			Bright Loamy Soils (F	
	Bodies (A6) (LRR	P, T, U)	Redox Dark		F6)		(MLRA 15		/
5 cm Mu	icky Mineral (A7) (I	LRR P, T, U)	Depleted Da	rk Surface	e (F7)			Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			v Dark Surface (TF12	2)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Expla	ain in Remarks)	
	d Below Dark Surfa	ice (A11)	Depleted Oc		•		T) 3Indicators	of hydrophytic vegeta	stion and
	ark Surface (A12) rairie Redox (A16)	(MI RA 150A)	☐ Iron-Mangan☐ Umbric Surfa				•	nydrology must be pre	
	Mucky Mineral (S1)		Delta Ochric			, 0,		sturbed or problemati	
_	Gleyed Matrix (S4)	(Reduced Ver			0A, 150B)		oranio a or productiona	
	Redox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	RA 149A, 153C, 153D	O)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed	l):							
Type:			_						
	ches):		_				Hydric Soil Prese	ent? Yes	No <u>✓</u>
Remarks:	il present								
No Hydric so	ni present								
I									

Project/Site: 1461 Lowman	Citv/County: Needha	am/Choctaw	Sampling Date: 2020-01-18				
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2072				
Investigator(s):	Section, Township, Ra						
· , ,		convex, none): Convex	Slope (%): 1				
Subregion (LRR or MLRA): P Lat:	Local Teller (colleave,		Datum: WGS 84				
Soil Map Unit Name: BnE2			_				
	- · · · ·	NWI classificat	•				
Are climatic / hydrologic conditions on the site typical for this time of ye							
Are Vegetation, Soil, or Hydrology significantly		"Normal Circumstances" p	resent? YesNo✓				
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Understation Processing No. 1							
Hydrophytic Vegetation Present? Yes No _✓ Hydric Soil Present? Yes No _✓	Is the Sample		,				
Wetland Hydrology Present? Yes No ✓	within a Wetla	and? Yes	No✓				
Remarks:							
Upland sample associated with wetland W2072							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicate	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (Cracks (B6)				
Surface Water (A1)		Sparsely Veg	etated Concave Surface (B8)				
High Water Table (A2) High Warl Deposits (B15)		Drainage Pat	, ,				
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)							
Water Marks (B1) — Oxidized Rhizosph	Nater Table (C2)						
Sediment Deposits (B2) Presence of Reduction Process (B2)	, ,	Crayfish Burn					
☐ Drift Deposits (B3) ☐ Recent Iron Reduction ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	ion in Tilled Soils (C6)	_	sible on Aerial Imagery (C9)				
Iron Deposits (B5) Other (Explain in R		☐ Geomorphic I ☐ Shallow Aquit					
Inundation Vis ble on Aerial Imagery (B7)	sinarks)	FAC-Neutral	` '				
Water-Stained Leaves (B9)			loss (D8) (LRR T, U)				
Field Observations:							
Surface Water Present? Yes No ✓ Depth (inches	:						
Water Table Present? Yes No✓ Depth (inches	I						
Saturation Present? Yes No ✓ Depth (inches	: W	etland Hydrology Presen	t? Yes No <u></u> ✓				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspection	ns), if available:					
The state of the s							
Remarks:							
Hydrology not present							

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

Sampling Point: UP2072

			Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2	_ 0			Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 40 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species <u>0</u> x 1 = <u>0</u>
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover		FAC species 60 x 3 = 180
1 Liquidambar styraciflua	20	1	FAC	FACU species 50 x 4 = 200
2. Quercus falcata	15		FACU	UPL species $0 \times 5 = 0$
	0		17100	Column Totals: 110 (A) 380 (B)
3	- 0			
4				Prevalence Index = $B/A = \frac{3.5}{}$
5	_ 0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0¹
	35%	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 18	20% of	total cover	7	- Problemato Hydrophytio Vogetation (Explain)
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1 Andropogon virginicus	40	✓	FAC	be present, unless disturbed or problematic.
2. Lonicera japonica	20	<u>√</u>	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	15		FACU	Deminions of Four Vogetation Strata.
	0		17100	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	- 0			more in diameter at breast height (DBH), regardless of height.
5	- 0			neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7	_ —			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11. <u> </u>	0			height.
12	0			
	75% :	Total Cov	er	
50% of total cover: 38		total cover		
		total oover		
Woody Vine Stratum (Plot size: 30 ft r				
	0			
1	0 0			
1 2	0			
1	0			
Woody Vine Stratum (Plot size: 30 ft r) 1	0 0 0			
1	0			Hydrophytic
1	0 0 0 0	Total Cov	er	Vegetation
1	0 0 0 0			

SOIL Sampling Point: UP2072

Depth
0 - 3
3 - 10 10YR 4/3 100 Sand 10 - 20 10YR 4/4 100 Sand
10 - 20 10YR 4/4 100 Sand
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Indicators for Problematic Hydric Soils³:
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S, T, U) ☐ 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2) I i nin Dark Surface (S9) (LRR S, 1, U)
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F16) (Outside MERA 190A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Under (Explain in Remarks)
Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Iron-Manganese Masses (F12) (LRR O, P, T)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):
Type:
Depth (inches): No _ ✓ _
Remarks:
No Hydric soil present

Project/Site: 1461 Lowman	City/County: Needham	/Choctaw	Sampling Date: 2020-01-19				
Applicant/Owner: NextEra		State: Alabama	Sampling Date: 2020-01-19 Sampling Point: UP2074/UP2075				
Investigator(s)	Section, Township, Rang						
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, co		Slope (%): 1				
Subregion (LRR or MLRA): P Lat;		ng:	Datum: WGS 84				
Soil Map Unit Name: BnE2			tion:				
Are climatic / hydrologic conditions on the site typical for this time of ye							
Are Vegetation, Soil, or Hydrology significantly		Normal Circumstances" p	resent? YesNo				
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology naturally pr	blematic? (If nee	eded, explain any answei	s in Remarks.)				
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations, transects	important features, etc.				
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled A	Area					
Hydric Soil Present? Yes No _✓	within a Wetland	d? Yes	No <u>✓</u>				
Wetland Hydrology Present? Yes No✓							
Remarks: Upland sample associated with wetland W2074 and W2075.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B1	3)	Sparsely Veg	etated Concave Surface (B8)				
High Water Table (A2) Harl Deposits (B15)		Drainage Pat					
Saturation (A3)	, ,	Moss Trim Li	, ,				
	eres along Living Roots (Nater Table (C2)				
Sediment Deposits (B2) Presence of Redui		Crayfish Burr	, ,				
☐ Drift Deposits (B3) ☐ Recent Iron Reduction ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	tion in Tilled Soils (C6)	Geomorphic	sible on Aerial Imagery (C9)				
Iron Deposits (B5) Other (Explain in F		Shallow Aqui	` '				
Inundation Vis ble on Aerial Imagery (B7)	omarks)	FAC-Neutral					
Water-Stained Leaves (B9)		_	oss (D8) (LRR T, U)				
Field Observations:							
Surface Water Present? Yes No ✓ Depth (inches	:						
Water Table Present? Yes No ✓ Depth (inches	:						
Saturation Present? Yes No ✓ Depth (inches	: Wetl	land Hydrology Presen	t? Yes No_ <u>√</u>				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	s. previous inspections).	. if available:					
January House Data (Caoain gaage, Helinoling Hou, actial price	c, providuo inopoduono,	, ii availabio.					
Remarks:							
Hydrology not present							

VEGETATION (Four Strata) – Use scientific names of pla
--

Sampling Point: UP2074/UP2075

- 30 ft r			Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)	% Cover 0	Species'	? Status	Number of Dominant Species
1	- 0		· ——	That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3	_ 0			Species Across All Strata: 2 (B)
4	_ 0			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Co	ver	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover:	20% of	total cove	r:	FACW species $\frac{0}{100}$ x 2 = $\frac{0}{100}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 40 $\times 3 = 120$
1	0			FACU species 15 x 4 = 60
2.	0			UPL species <u>0</u> x 5 = <u>0</u>
	0			Column Totals: <u>55</u> (A) <u>180</u> (B)
3	0			
4	0			Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
6	- 0		· ——	1 - Rapid Test for Hydrophytic Vegetation
7	- 0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	40		FAC	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	15	✓	FACU	Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Harb All barbassas (san waads) slants sanadlass
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
12				
28		Total Co		
50% of total cover: 28	20% of	total cove	r: <u>' ' '</u>	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	- 0			
2	$-\frac{0}{0}$			
3				
4	0			
5	0			Hydrophytic
		Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	r:	Present? Yes No✓
Remarks: (If observed, list morphological adaptations bel				
Hydrophytic vegetation not present. 55 percent bare grour		aina distur	bances	
Tryanophiyaa tagaaaan nat piaaana aa paraan bara giraa	ia ado to log	girig alotai	Danio 00	

SOIL Sampling Point: UP2074/UP2075

Profile Desc	ription: (Describ	e to the depth	n needed to docum	nent the	indicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Feature	s	1 2		5
(inches) 0 - 3	Color (moist) 10YR 3/3	100	Color (moist)	<u>%</u>	Type	Loc ²	Texture Loamy sand	Remarks
l ———							<u> </u>	
3-10	7.5YR 4/4						Sand	
10 - 20	7.5YR 4/6	100					Sand	
-								
¹Type: C=Co	oncentration D=De	enletion RM=F	Reduced Matrix, MS	=Masker	Sand Gr	ains	2l ocation: PL=	=Pore Lining, M=Matrix.
			RRs, unless other					Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Bel	low Surfa	ice (S8) (L	.RR S, T, L	J) 🔲 1 cm Muck	(A9) (LRR O)
	oipedon (A2)		Thin Dark Su					(A10) (LRR S)
Black Hi			Loamy Mucky			R O)		/ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(F2)			Floodplain Soils (F19) (LRR P, S, T) s Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P. T. U)	Redox Dark S		- 6)		(MLRA 1	
	icky Mineral (A7) (Depleted Dar					t Material (TF2)
Muck Pr	esence (A8) (LRR	U)	Redox Depre	•	8)			ow Dark Surface (TF12)
	ick (A9) (LRR P, T	•	Marl (F10) (L				Other (Exp	olain in Remarks)
_	d Below Dark Surfa	ace (A11)	Depleted Och				T) ³ Indicator	s of hydrophytic vegetation and
_	ark Surface (A12) rairie Redox (A16)	(MLRA 150A)	☐ Iron-Mangane ☐ Umbric Surfa					hydrology must be present,
	lucky Mineral (S1)		Delta Ochric			, -,		disturbed or problematic.
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 15	0A, 150B)		
	Redox (S5)		Piedmont Flo			,	•	
	Matrix (S6) rface (S7) (LRR P	S T 11)	Anomalous B	right Loa	my Soils (F20) (MLR	A 149A, 153C, 15	3D)
	Layer (if observed						1	
Type:		-,-						
	ches):		_				Hydric Soil Pre	sent? Yes No _✓
Remarks:								
No Hydric so	il present							

Project/Site: 1461 Lowman	City/County: Sila	s/Choctaw	Sampling Date: 2020-01-19				
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2076				
Investigator(s):	Section, Township						
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 3				
Subregion (LRR or MLRA): P Lat:	Zesar remer (series	Long:	Datum: WGS 84				
Soil Map Unit Name: Fra		NWI classific					
Are climatic / hydrologic conditions on the site typical for this time of ye	oor2 Von 🗸						
		Are "Normal Circumstances"					
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No✓	1- 41 0	and and America					
Hydric Soil Present? Yes No ✓	within a W	npled Area	No✓				
Wetland Hydrology Present? Yes No✓	within a vi	vedand? Tes	NO				
Remarks:							
Upland Sample point associated with wetland W2076							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)		Surface Soi	I Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B	13)		getated Concave Surface (B8)				
High Water Table (A2) Marl Deposits (B1)	•		atterns (B10)				
Saturation (A3) Hydrogen Sulfide	Odor (C1)	Moss Trim I	.ines (B16)				
☐ Water Marks (B1) ☐ Oxidized Rhizospl	neres along Living l	Roots (C3) Dry-Season	Water Table (C2)				
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)	Crayfish Bu	rrows (C8)				
Drift Deposits (B3)	· · -	/isible on Aerial Imagery (C9)					
Algal Mat or Crust (B4) Thin Muck Surface		_	Position (D2)				
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aqu	· '				
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra					
		Spnagnum	moss (D8) (LRR T, U)				
Surface Water Present? Yes No _ ✓ Depth (inches	s):						
Water Table Present? Yes No _ ✓ Depth (inches							
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							
Hydrology not present							

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

Tree Stratum (Plot size: 30 ft r

1. Quercus falcata

Quercus alba

Fagus grandifolia

Pinus taeda

llex opaca

Sampling Point: UP2076 Absolute Dominant Indicator **Dominance Test worksheet: Number of Dominant Species** That Are OBL, FACW, or FAC: (A) **Total Number of Dominant** Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)

6. Quercus laurifolia	5	FACW	That Are OBE, TAOV, OT AO (AB)
7.	0		Prevalence Index worksheet:
8.	0		Total % Cover of: Multiply by:
	60% = Total Co	over	OBL species 0 x 1 = 0
50% of total cover: 30	20% of total cove		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 30 ft r)	20% 01 total 00%	J	FAC species 30 x 3 = 90
1. Ilex opaca	10 🗸	FAC	FACU species <u>55</u> x 4 = <u>220</u>
2. Quercus falcata	10 🗸	FACU	UPL species 0 x 5 = 0
3. Fagus grandifolia	5	FACU	Column Totals: <u>95</u> (A) <u>330</u> (B)
4. Pinus taeda		FAC	
5. Quercus laurifolia	5	FACW	Prevalence Index = $B/A = 3.5$
	- 0		Hydrophytic Vegetation Indicators:
6	- 0		1 - Rapid Test for Hydrophytic Vegetation
7	- 0		2 - Dominance Test is >50%
8			3 - Prevalence Index is ≤3.0 ¹
10			Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 18	20% of total cove	er: <u>/</u>	
Herb Stratum (Plot size: 30 ft r)	0		¹ Indicators of hydric soil and wetland hydrology must
1	- 0		be present, unless disturbed or problematic.
2			Definitions of Four Vegetation Strata:
3			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0		more in diameter at breast height (DBH), regardless of
5			height.
6	0		Sapling/Shrub - Woody plants, excluding vines, less
7	0		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0		Herb – All herbaceous (non-woody) plants, regardless
9	0		of size, and woody plants less than 3.28 ft tall.
10	0		Woody vine – All woody vines greater than 3.28 ft in
11	0		height.
12	0		
	= Total Co	over	
50% of total cover:	20% of total cove	er:	
Woody Vine Stratum (Plot size: 30 ft r)			
1.	0		
2.	0		
3.	0		
4.	0		
5.	0		
o	= Total Co	over	Hydrophytic Vegetation
50% of total cover:			Present? Yes No _ ✓
		a	
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present	ow).		
Trydrophydd Vegetadol ffot plesein			

% Cover Species? Status

FACU

FACU

FACU

FAC

FAC

20

15

10

5

5

SOIL Sampling Point: UP2076

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence of	f indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u> _	Remarks	
0-3	2.5YR 4/3	100					Loam		
3 - 20	10YR 5/6	100					Loamy sand		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	rwise not	ed.)		Indicators fo	or Problematic Hydric	Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🔲 1 cm Mu	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F19	
	Layers (A5)	D T II)	Depleted Ma		· (C)			ous Bright Loamy Soils	(F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark				_ ,	\ 153B) ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0)			xplain in Remarks)	12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		Aprain in Homanie,	
	ark Surface (A12)	(***)	Iron-Mangan				, T) ³ Indicat	ors of hydrophytic veg	etation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetlar	nd hydrology must be p	oresent,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or problem	atic.
	Bleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	O T 11)	Anomalous E	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 1	(53D)	
	rface (S7) (LRR P, Layer (if observed						1		
l _	Layer (II observed).							
Type:	- h \						Libraria Callin		No. of
	ches):		_				Hydric Soil P	resent? Yes	_ No <u></u>
Remarks: Hydric soil no	nt present								
Trydic son in	n present								

Project/Site: 1461 Lowman	City/County: Gilber	rtown/Choctaw	Sampling Date: 2020-01-19				
Applicant/Owner: NextEra	, , , ,	State: Alabama	Sampling Point: UP2077/UP2079				
Investigator(s):	Section, Township,						
- 17		e, convex, none): Convex	Slope (%): 2				
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84				
Soil Map Unit Name: SmB		NWI classifica					
Are climatic / hydrologic conditions on the site typical for this time of ye	or2 Vos ✓ No						
			ernanks.) eresent? YesNo				
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No✓							
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampl		N				
Wetland Hydrology Present? Yes No✓	within a Wet	tiand? Yes	No✓				
Remarks:	•						
Upland Sample point associated with wetlands W2077 and W2079							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)		Secondary indica					
Surface Water (A1) Aquatic Fauna (B1:	3)		getated Concave Surface (B8)				
High Water Table (A2) Marl Deposits (B15	•	Drainage Par					
Saturation (A3) Hydrogen Sulfide C		Moss Trim Li					
	eres along Living Ro		Water Table (C2)				
Sediment Deposits (B2)		Crayfish Burn					
☐ Drift Deposits (B3) ☐ Recent Iron Reduc	tion in Tilled Soils (C	(6) Saturation Vi	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic	Position (D2)				
Iron Deposits (B5) Under (Explain in R	emarks)	Shallow Aqui	• •				
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral					
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)				
Field Observations:	.						
Surface Water Present? Yes No ✓ Depth (inches) Water Table Present? Yes No ✓ Depth (inches)							
Saturation Present? Yes No ✓ Depth (inches)	· I	Wetland Hydrology Preser	ıt? Yes No ✓				
(includes capillary fringe)			10				
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspection	ons), if available:					
Remarks:							
Hydrology not present							

Sampling	Point:	UP2077/UP2079

Tree Stratum (Plot size: 30 ft r		Dominant		Dominance Test worksheet:		
1. Pinus taeda	20	Species? ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2	.	
2. Quercus alba	15		FACU	That Are OBL, FACW, or FAC: 2 (A	A)	
3. Quercus falcata	15		FACU	Total Number of Dominant		
	5		FACU	Species Across All Strata: 5	B)	
4. Fagus grandifolia				Percent of Dominant Species		
5. Ilex opaca	5		FAC		A/B)	
6. Quercus laurifolia	5		FACW	Prevalence Index worksheet:	-	
7	0					
8	0					
	65% :	Total Cov	er	ODL species x 1 =		
50% of total cover: 33	20% of	total cover:	13	FACW species $\frac{10}{40}$ $x = \frac{20}{120}$		
Sapling/Shrub Stratum (Plot size: 30 ft r)				TAO species		
1. Ilex opaca	10	✓	FAC	FACU species $\frac{50}{2}$ x 4 = $\frac{200}{2}$		
2. Quercus falcata	10	✓	FACU	UPL species 0 x 5 = 0		
3. Fagus grandifolia	5		FACU	Column Totals: 100 (A) 340	(B)	
4. Pinus taeda	5		FAC	Boots and the second se		
5. Quercus laurifolia	5		FACW	Prevalence Index = B/A = 3.4		
6	0			Hydrophytic Vegetation Indicators:		
	0			1 - Rapid Test for Hydrophytic Vegetation		
7	0			2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.0¹		
10		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)		
	20% of	total cover:	/			
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mu	st	
1	0			be present, unless disturbed or problematic.		
2	0			Definitions of Four Vegetation Strata:		
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm	a) or	
4	0			more in diameter at breast height (DBH), regardles	s of	
5.	0			height.		
6.	0			Sapling/Shrub – Woody plants, excluding vines, le	oee	
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	333	
8	0			I that All had a source for a source had a large		
9	0			Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall.	ess	
10.	0			- Of Size, and woody plants less than 5.20 it tall.		
	0			Woody vine – All woody vines greater than 3.28 ft	in	
11	0			height.		
12	<u> </u>					
		Total Cov				
50% of total cover:	20% of	total cover:				
Woody Vine Stratum (Plot size: 30 ft r)	•					
1	0					
2	0					
3	0					
4	0					
5	0			Hydrophytic		
		Total Cov	er	Vegetation		
50% of total cover:	20% of	total cover:		Present? Yes No		
Remarks: (If observed, list morphological adaptations belo				<u> </u>	\dashv	
Hydrophytic vegetation not present	,.					
.,,,						

SOIL Sampling Point: UP2077/UP2079

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of ind	licators.)
Depth	Matrix			x Feature		. 2		
(inches) 0 - 3	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks
	10YR 4/3						Loam	
3 - 20	2.5Y 4/6	100					Loamy sand	
-								
-								
							2	
	oncentration, D=De					ains.		Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_			DD 6 T 1		roblematic Hydric Soils ³ :
Histosol	(A1) Dipedon (A2)		Polyvalue Be Thin Dark Su				. —	A9) (LRR O) A10) (LRR S)
Black Hi			Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			. •,		podplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,			Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark				(MLRA 15	
	cky Mineral (A7) (L		Depleted Dar					Material (TF2)
	esence (A8) (LRR		Redox Depre		8)			Dark Surface (TF12) in in Remarks)
	ck (A9) (LRR P, T) Below Dark Surfa		Marl (F10) (L Depleted Och		(MIRA 1	51)	Other (Expla	in in Remarks)
	ark Surface (A12)	00 (/ (/ / /	Iron-Mangane				T) ³ Indicators	of hydrophytic vegetation and
	rairie Redox (A16) (MLRA 150A)	=				•	ydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver					
	ledox (S5)		Piedmont Flo			•	•	
	Matrix (S6) rface (S7) (LRR P,	S T III	Anomalous B	right Loai	my Solls (F20) (WILK	RA 149A, 153C, 153D))
	_ayer (if observed							
Type:	, (,-						
—	ches):		_				Hydric Soil Prese	ent? Yes No <u>√</u>
Remarks:							1.,	
Hydric soil no	ot present							

Project/Site: 1461 Lowman	City/County: Gilbe	ertown/Choctaw	Sampling Date: 2020-01-20
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2080
Investigator(s):		o, Range:	
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: BnE2		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye	aar? Vas ✓ N		
Are Vegetation, Soil, or Hydrology significantly		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally pr			
SUMMARY OF FINDINGS – Attach site map showing		(If needed, explain any answeint locations, transects	
Understation Processing No. 1			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sam	-	,
Wetland Hydrology Present? Yes No ✓	within a W	etland? Yes	No✓
Remarks:			
Upland Sample point associated with wetlands W2080, W1132, and	W1133		
LIVERELEGY			
HYDROLOGY		Occasion India	1 (
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B15)	•	Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide (Moss Trim L	
	neres along Living F		Water Table (C2)
Sediment Deposits (B2) Presence of Reduction	ced Iron (C4)	Crayfish Bur	rows (C8)
	ction in Tilled Soils (_	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		_	Position (D2)
Iron Deposits (B5) Unique de la contraction (B7)	(emarks)	Shallow Aqu	· '
Inundation Vis ble on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral	moss (D8) (LRR T, U)
Field Observations:		Opilagiluii i	iloss (DO) (ERR 1, O)
Surface Water Present? Yes No ✓ Depth (inches	4):		
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches	i):	Wetland Hydrology Preser	nt? Yes No_ <u>√</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photomorphisms)	os previous inspec	tions) if available:	
besome recorded bata (steam gauge, montoning won, acriai proce	so, previous mopes	dono), ii avallabic.	
Remarks:			
Hydrology not present			

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

50% of total cover: 28

50% of total cover: 25

50% of total cover:

50% of total cover:

% Cover Species?

_ 20% of total cover:

_ 20% of total cover:

__ 20% of total cover:

20% of total cover:

15

10

5

5

0 0

10

10

10

0 0 0

0 0 0

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1. Quercus alba

2. Quercus falcata 3. Pinus taeda

4. Fagus grandifolia

6. Quercus laurifolia

1. Fagus grandifolia 2. Ilex opaca

4. Quercus falcata

5. Quercus laurifolia

3. Juniperus virginiana

5. Ilex opaca

fplan			Sampling Point: UP2080
	ominant Species?	Indicator	Dominance Test worksheet:
/ei 	✓	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
	✓	FACU	Total Number of Dominant
		FACU	Species Across All Strata: 6 (B)
			Percent of Dominant Species
		FACW	That Are OBL, FACW, or FAC: 17 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
	Total Cov		FACW species 10 x 2 = 20
of to	tal cover:	11	FAC species 25 x 2 = 75
			FACU species 70 x 4 = 280
	✓	FACU	
	✓	FAC	405
	✓	FACU	Column Totals: 105 (A) 375 (B)
	✓	FACU	Prevalence Index = B/A = 3.6
		FACW	-
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
_	Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
of to	tal cover:	10	
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Definitions of Four Vegetation Strata.
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
= 7	Total Cov	er	
of to	tal cover:		
			Hydrophytic
_= 1	Total Cov	er	Vegetation
	tal cover:		Present? Yes No
	00101		

Remarks:	(If observed,	list morphological	adaptations	below)
lydrophyti	c vegetation i	not present		

Woody Vine Stratum (Plot size: 30 ft r)

SOIL Sampling Point: UP2080

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence of	f indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u> _	Remark	<u>s</u>
0-5	10YR 5/4	100					Loam		
5 - 20	10YR 5/6	100					Loamy sand		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=M	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)			or Problematic Hydr	
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🛄 1 cm Mu	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ick (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outsid	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F	
	Layers (A5)	D T II)	Depleted Ma		-0)			ous Bright Loamy Soi	s (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark Depleted Da				_ ,	A 153B) ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					ent Material (172) allow Dark Surface (1	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0)			(xplain in Remarks)	1 12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		Aprair in Normanio,	
	ark Surface (A12)	,	Iron-Mangan				, T) ³ Indicat	tors of hydrophytic ve	getation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetla	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or proble	matic.
	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	O T II)	Anomalous E	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P, Layer (if observed						1		
l _	Layer (II observed).							
Type:	- h \						I budele Cell D		No. of
	ches):		_				Hydric Soil P	resent? Yes	No <u></u>
Remarks: Hydric soil no	nt present								
Trydric soil ite	or present								

Project/Site: 1461 Lowman	City/County: Gilb	ertown/Choctaw	Sampling Date: 2020-01-20
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2081
Investigator(s):	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 6
Subregion (LRR or MLRA): P Lat:	Essai Folioi (solio	Long:	Datum: WGS 84
Soil Map Unit Name: BnE2		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of you	2 V V		
Are Vegetation, Soil, or Hydrology significantly		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	յ sampling po	int locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Ves No. V			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sam	-	,
Wetland Hydrology Present? Yes No _✓	within a W	/etland? Yes	No✓_
Remarks:			
Upland Sample point associated with wetland W2081			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1)	•		getated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B1:			atterns (B10)
Saturation (A3) Hydrogen Sulfide (Water Marks (B1) Oxidized Rhizosph	neres along Living F	Moss Trim I	Water Table (C2)
Sediment Deposits (B2) Presence of Redui		Crayfish Bu	
Drift Deposits (B3)			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		· · -	Position (D2)
Iron Deposits (B5) Other (Explain in F		Shallow Aqu	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	l Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)):	Wetland Hydrology Prese	nt? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks: Hydrology not present			
.,,,			

	Dominant Species? ✓		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 5 (B)
15 15 10 5	✓	FACU FACU	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
10 5	✓		Total Number of Dominant
5		FAC	
			Species Across All Strata: 5 (B)
5		FACU	(2)
		FAC	Percent of Dominant Species That Are OBL FACW or FAC: 20 (A/B)
5		FACW	That Are OBL, FACW, or FAC: 20 (A/B
0			Prevalence Index worksheet:
0			Total % Cover of: Multiply by:
55% -	Total Car		OBL species 0 x 1 = 0
			FACW species 10 x 2 = 20
20% 01	total cover.		FAC species 30 x 3 = 90
10	1	FAC	FACU species 60 x 4 = 240
			UPL species 0 x 5 = 0
			Column Totals: 100 (A) 350 (B)
			Prevalence Index = $B/A = 3.5$
			Hydrophytic Vegetation Indicators:
		FACW	1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
45% =	· Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
20% of	total cover:	9	
			¹ Indicators of hydric soil and wetland hydrology must
0			be present, unless disturbed or problematic.
0			Definitions of Four Vegetation Strata:
0			Too Monte desta contestina viene O in (7.0 and a
0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
0			height.
0			Sapling/Shrub – Woody plants, excluding vines, less
0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0			
0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
0			or size, and woody plants less than o.zo it tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
<u> </u>			
20% of	total cover:		
0			
<u> </u>			
<u> </u>			
0			Hydrophytic
=	· Total Cov	er	Vegetation
20% of	total cover:		Present? Yes No _▼
	0 55% = 20% of 10 10 10 5 5 5 0 0 45% = 20% of 0 0 0 0 0 0 0 0 0 0 0 0 0	0 55% = Total Cov 20% of total cover: 10	0 55% = Total Cover 20% of total cover: 11 10

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100					Loam		
3 - 20	2.5Y 4/6	100					Loamy sand		
-									
				- ——					
¹Type: C=C	oncentration, D=De	epletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL:	=Pore Lining, M=Mati	ix.
	Indicators: (Appl						Indicators for	Problematic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🔲 1 cm Muck	(A9) (LRR O)	
Histic E	oipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Muck	(A10) (LRR S)	
	istic (A3)		Loamy Muck	-		R O)		/ertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		(F2)			Floodplain Soils (F19	
	d Layers (A5)	D. T. III	Depleted Ma		-0\			s Bright Loamy Soils	(F20)
	Bodies (A6) (LRR ucky Mineral (A7) (Redox Dark				☐ (MLRA 1	nt Material (TF2)	
	resence (A8) (LRR		Redox Depre					ow Dark Surface (TF	12)
	ick (A9) (LRR P, T		Marl (F10) (L		0)			plain in Remarks)	,
	d Below Dark Surfa	•	Depleted Oc		(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P	, T) ³ Indicator	s of hydrophytic vege	etation and
	rairie Redox (A16)					, U)		l hydrology must be p	
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problema	atic.
	Gleyed Matrix (S4)		Reduced Ver						
1 1	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 15	3D/	
	rface (S7) (LRR P,	STIN	Anomalous E	ongni Loai	ily Solls (F20) (WILF	KA 149A, 155C, 15	30)	
	Layer (if observed						T		
Type:	,	,							
	ches):		_				Hydric Soil Pre	sent? Yes	No_✓
Remarks:			_				1.,,		
Hydric soil no	ot present								
									l
									l
									l
									l
									l

Project/Site: 1461 Lowman	City/County: Gilbertown/Choctaw Sampling Date: 2020-01-21
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2082/UP2083
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 6
Subregion (LRR or MLRA): P Lat:	Long: Datum: WGS 84
Soil Map Unit Name: BnE2	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No✓	
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No
Remarks:	
Upland Sample point associated with wetlands W2082 and W2083	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	_
Surface Water (A1) Aquatic Fauna (B1)	<u></u>
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide (Carlotte Carlotte Carl	
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
☐ Drift Deposits (B3) ☐ Recent Iron Reduc	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7) Geomorphic Position (D2)
Iron Deposits (B5) Under (Explain in F	<u> </u>
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	A.
Surface Water Present? Yes No ✓ Depth (inches Water Table Present? Yes No ✓ Depth (inches	
Saturation Present? Yes No ✓ Depth (inches	·
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
Hydrology not present	

Sampling	Point:	UP2082/UP2083

T 01 1 (D1 1 : 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r) 1 Pinus taeda	<u>% Cover</u> 15	Species? ✓	FAC	Number of Dominant Species
	- 13		170	That Are OBL, FACW, or FAC: 3 (A)
2	- 0			Total Number of Dominant
3	- 0			Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5	_ 0			That Are OBL, FACW, or FAC: 50 (A/
6	_ 0			Prevalence Index worksheet:
7	0			
8	0			
	15% :	Total Cov	er	
50% of total cover: 8	20% of	total cover:	3	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{50}{35}$ $\times 3 = \frac{150}{140}$
1. Pinus taeda	25	✓	FAC	17.00 000000 X4
2. llex opaca	10	✓	FAC	OF E species X U =
3	0			Column Totals: <u>95</u> (A) <u>340</u> (E
4.	0			Prevalence Index = B/A = 3.6
5	0			Hydrophytic Vegetation Indicators:
6.	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8.	0			
	35% :	Total Cov	er	The valence mack is 10.5
50% of total cover: 18		total cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)	20 /0 01	total cover.		
1. Lonicera japonica	20	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Eupatorium capillifolium	15		FACU	Definitions of Four Vegetation Strata:
3. Rubus allegheniensis	10		UPL	Definitions of Four vegetation Strata.
•	0		012	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
4	- 0			more in diameter at breast height (DBH), regardless height.
5	- 0			neight.
6	- 0			Sapling/Shrub – Woody plants, excluding vines, less
7	$-\frac{0}{0}$			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardles
9	_ 0			of size, and woody plants less than 3.28 ft tall.
10	_ 0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	45% :	= Total Cov	er	
50% of total cover: 23	20% of	total cover	9	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
4.	0			
5.	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:				Present? Yes No
		total oover		
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present	low).			
.,,,				

SOIL Sampling Point: UP2082/UP2083

Profile Description: (Describe to the depth	needed to docur	ment the i	ndicator	or confirn	n the absence of in	dicators.)
Depth <u>Matrix</u>		x Features				
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3 7.5YR 4/3 100					Loam	
3 - 20 7.5YR 4/4 100					Loamy sand	
-						
-						
						
¹ Type: C=Concentration, D=Depletion, RM=R				ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all Li						Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Be				. —	(A9) (LRR O)
Histic Epipedon (A2) Black Histic (A3)	Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye	-		(0)		loodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Ma		-/			Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark		6)		(MLRA 1	
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Da	rk Surface	(F7)			Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depre		3)			w Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L		(NII DA 4)	F4)	Other (Expl	ain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Oct		•		T) ³ Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)					•	hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric			, -,		isturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ver	rtic (F18) (MLRA 15	0A, 150B))	
Sandy Redox (S5)	Piedmont Flo			•	•	
Stripped Matrix (S6)	Anomalous E	Bright Loan	ny Soils (l	F20) (MLR	RA 149A, 153C, 153	D)
Dark Surface (S7) (LRR P, S, T, U)						
Restrictive Layer (if observed):						
Type:	_				Uhadria Cail Dras	venta Ven No d
Depth (inches):	_				Hydric Soil Pres	ent? Yes No <u>✓</u>
Remarks: Hydric soil not present						
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						

Project/Site: 1461 Lowman	Citv/County: Gilbertow	vn/Choctaw	Sampling Date: 2020-01-21
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2084/UP2085
Investigator(s):	Section, Township, Ran		
• , , -			Slope (%): <u>5</u>
Subregion (LRR or MLRA): P Lat:	10	ong:	Datum: WGS 84
Soil Map Unit Name: WaB		NWI classifica	-
Are climatic / hydrologic conditions on the site typical for this time of ye	or2 Vos ✓ No		
			resent? Yes <u> </u> No
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pro-	blematic? (If nee	eded, explain any answer	's in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point lo	ocations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled		N
Wetland Hydrology Present? Yes No✓	within a Wetlan	nd? Yes	No✓
Remarks:	•		
Upland Sample point associated with wetlands W2084 and W2085			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1)	8/		etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	•	Drainage Pat	
Saturation (A3) Hydrogen Sulfide (Carlotte Carlotte Carl		Moss Trim Li	
	eres along Living Roots		Vater Table (C2)
Sediment Deposits (B2)		Crayfish Burn	· ·
☐ Drift Deposits (B3) ☐ Recent Iron Reduc	tion in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in F	emarks)	Shallow Aqui	· ·
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)			oss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		etland Hydrology Presen	t? Yes No ✓
(includes capillary fringe)			100 NO
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections)), if available:	
Remarks:			
Hydrology not present			

Sampling Point:	UP2084/UP2085
-----------------	---------------

<u>Tree Stratum</u> (Plot size: 30 ft r) 1 Pinus taeda			Indicator	Dominance Test worksheet:
1 Pinus taega	% Cover 5	Species?	Status FAC	Number of Dominant Species
"	- 5	_ ✓	FAC	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			
	5% =	Total Cov	er	OBE speciesX1
50% of total cover: 3	20% of	total cover	1	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species 55 x 3 = 165
1. Pinus taeda	35	✓	FAC	FACU species 45 x 4 = 180
2. Ilex vomitoria	5		FAC	UPL species 10 x 5 = 50
3.	0			Column Totals: 110 (A) 395 (B)
4	0			36
	0			Prevalence Index = B/A = 3.6
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
30		= Total Cov	_	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 20	20% of	total cover		
Herb Stratum (Plot size: 5 ft r)	25	,	FACIL	¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	25		FACU	be present, unless disturbed or problematic.
2. Lonicera japonica	20	✓	FACU	Definitions of Four Vegetation Strata:
3. Ilex vomitoria	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rubus allegheniensis	10		UPL	more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10.	0			Manada da Allamada da Angara da Anga
11	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			
	65%	Total Cov	er	
		total cover		
50% of total cover: 33		total cover		
50% of total cover: 33				
Woody Vine Stratum (Plot size: 30 ft r)				
Woody Vine Stratum (Plot size: 30 ft r) 1.	0 0			
Woody Vine Stratum (Plot size: 30 ft r) 1) 2	0			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft r</u>) 1 2 3	0 0 0		<u> </u>	
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3 4	0 0 0 0			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft r</u>) 1 2 3	0 0 0 0 0			Hydrophytic
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3 4	0 0 0 0 0	- Total Cov	er	Hydrophytic Vegetation Present? Yes No✓

SOIL Sampling Point: UP2084/UP2085

Profile Desc	ription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u> %</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	10YR 4/3	100					Loam	
3 - 20	10YR 4/4	100					Loamy sand	
-								
-								
<u> </u>								
	oncentration, D=De					ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Appl	icable to all Li						Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be				. —	(A9) (LRR O) (A10) (LRR S)
· •	istic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,l
	en Sulfide (A4)		Loamy Gleye	-		. •,		Floodplain Soils (F19) (LRR P, S, 1
	d Layers (A5)		Depleted Ma				Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark				(MLRA 1	,
	ıcky Mineral (A7) (I		Depleted Da					t Material (TF2)
	esence (A8) (LRR uck (A9) (LRR P, T		Redox Depre		8)			ow Dark Surface (TF12) lain in Remarks)
	d Below Dark Surfa		Depleted Ocl		(MLRA 1	51)	Other (Exp	iaii iii Neiliaiks)
	ark Surface (A12)	(, , ,	Iron-Mangan		•	•	T) ³ Indicator	s of hydrophytic vegetation and
	rairie Redox (A16)		Umbric Surfa	ace (F13)	(LRR P, T	', U)	wetland	hydrology must be present,
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5) Matrix (S6)		Piedmont Flo			•	19A) RA 149A, 153C, 153	3D)
	rface (S7) (LRR P,	S, T, U)	Anomalous	ongin Loa	iny cons (20) (WEI	1404, 1000, 100	,
	Layer (if observed	•						
Type:								
Depth (in	ches):		_				Hydric Soil Pres	sent? Yes No <u></u> ✓
Remarks:							1 -	
Hydric soil no	ot present							
1								

Project/Site: 1461 Lowman	City/County: Gilbertown/Choctaw Sampling Date: 2020-01-21
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2086
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 5
Subregion (LRR or MLRA): P Lat:	Long: Datum: WGS 84
Soil Map Unit Name: WaB	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area
Hydric Soil Present? Yes No _ ✓	within a Wetland? Yes No✓
Wetland Hydrology Present? Yes No✓	·
Remarks: Upland Sample point associated with wetland W2086	
Spirita Sumple point associated with wetterna 172500	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	The state of the s
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in F	
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No _ ✓ Depth (inches	s):
Water Table Present? Yes No ✓ Depth (inches	s):
Saturation Present? Yes No ✓ Depth (inches	s): Wetland Hydrology Present? Yes No _✓
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photomorphisms)	tos, previous inspections), if available:
Remarks:	
Hydrology not present	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: UP2086 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r) % Cover Species? Status **Number of Dominant Species** 1. Pinus taeda ✓ FAC That Are OBL, FACW, or FAC: _____(A) **Total Number of Dominant** 0 ___ (B) Species Across All Strata: 0 Percent of Dominant Species That Are OBL, FACW, or FAC: __ (A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species 50% of total cover: 3 20% of total cover: 1 ___ x 3 = 180 **FAC species** Sapling/Shrub Stratum (Plot size: 30 ft r) 45 ___ x 4 = 180 FACU species 1 Pinus taeda FAC x = 5010 **UPL** species Column Totals: 115 410 (A) Prevalence Index = B/A = 3.6Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 18 20% of total cover: 7 Herb Stratum (Plot size: 30 ft r ¹Indicators of hydric soil and wetland hydrology must 1 Eupatorium capillifolium **FACU** be present, unless disturbed or problematic. 2. Lonicera japonica **FACU Definitions of Four Vegetation Strata:** 3. Andropogon virginicus 10 **FAC** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 4. Ilex vomitoria 10 FAC more in diameter at breast height (DBH), regardless of 5. Rubus allegheniensis 10 UPL height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 0 of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. 75% = Total Cover 50% of total cover: 38 20% of total cover: 15 Woody Vine Stratum (Plot size: 30 ft r) Hydrophytic = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 20% of total cover: Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation not present

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence of	f indicators.)	
Depth	Matrix			x Feature:					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u> _	Remark	S
0 - 12	10YR 4/3	100					Loam		
12 - 20	10YR 5/4	100					Loamy sand		
-									
-									
				- —					
	oncentration, D=De					ains.		L=Pore Lining, M=Ma	
Hydric Soil	Indicators: (Appli	cable to all Li	RRs, unless other	rwise not	ed.)			or Problematic Hydr	
Histosol	(A1)		Polyvalue Be				U) 🛄 1 cm Mu	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ick (A10) (LRR S)	
	stic (A3)		Loamy Muck	-		R O)		d Vertic (F18) (outsid	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F1	
	Layers (A5)	D T 11)	Depleted Ma		-0)			ous Bright Loamy Soil	s (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark				_ ,	A 153B) ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (T	F12)
	ick (A9) (LRR P, T)		Mari (F10) (L		0)			xplain in Remarks)	1-12)
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		Aprair iii reomane)	
	ark Surface (A12)	(/	Iron-Mangan				, T) ³ Indicat	tors of hydrophytic ve	getation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetla	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or probler	natic.
	Bleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	0. T. III	Anomalous E	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P, Layer (if observed						1		
l _	Layer (II observed).							
Type:	- h \		_				I budele Cell D		No. of
	ches):		_				Hydric Soil P	resent? Yes	No_ <u></u> ✓
Remarks: Hydric soil no	nt present								
Trydric soil in	or present								

Project/Site: 1461 Lowman	City/County: Gilb	ertown/Choctaw	Sampling Date: <u>2020-01-22</u>
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2087
Investigator(s)		o, Range:	
Landform (hillslope, terrace, etc.): Upland		ive, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: BnC		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye			
			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing	j sampling poi	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓	1- 4 0	and a d. A man	
Hydric Soil Present? Yes No ✓	Is the Sam	-	No✓
Wetland Hydrology Present? Yes No _✓	within a W	retiand? Yes	NO
Remarks:	•		
Upland Sample point associated with wetland W2087			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			l Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	•		atterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
☐ Water Marks (B1) ☐ Oxidized Rhizosph	neres along Living F	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	ced Iron (C4)	Crayfish Bu	rrows (C8)
	ction in Tilled Soils	(C6) Saturation \	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	(emarks)	Shallow Aqu	· '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
		<u> </u>	moss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inches	٥٠		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

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

50% of total cover:

Tree Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1 Eupatorium capillifolium

2. Andropogon virginicus

5. Rubus allegheniensis

3. Trifolium pratense

6. Lonicera japonica

4. Ilex vomitoria

Sampling Point: UP2087 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 1 (A) **Total Number of Dominant** 0 3 (B) Species Across All Strata: 0 Percent of Dominant Species That Are OBL, FACW, or FAC: __ (A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species __ 20% of total cover: ___ $_{--}$ x 3 = 75 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r) x 4 = 260 65 FACU species x 5 = 5010 **UPL** species Column Totals: 100 385 (A) Prevalence Index = B/A = 3.9Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: __ 20% of total cover: __ ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. 1 **FAC Definitions of Four Vegetation Strata:** 15 **FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 10 FAC more in diameter at breast height (DBH), regardless of 10 **UPL** height. **FACU** Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 0 of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. 100% = Total Cover 50% of total cover: 50 20% of total cover: 20 0 Hydrophytic = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below).
lydrophyti	c vegetation r	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 10	10YR 4/3	100					Loam		
10 - 20	10YR 5/4	100					Loamy sand		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	rwise not	ed.)			r Problematic Hydric	
Histosol	(A1)		Polyvalue Be				U) 🔲 1 cm Mud	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		(F2)			t Floodplain Soils (F19	
	Layers (A5)	D T 11)	Depleted Ma		-0)			us Bright Loamy Soils	(F20)
	Bodies (A6) (LRR cky Mineral (A7) (L		Redox Dark				□ (MLRA	ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					illow Dark Surface (TF	12)
	ck (A9) (LRR P, T)		Mari (F10) (L	•	0)			xplain in Remarks)	12)
	Below Dark Surfa		Depleted Oc		(MLRA 1	51)	other (2)	Aprair in Homanic)	
	ark Surface (A12)	(/	Iron-Mangan				T) ³ Indicate	ors of hydrophytic vege	etation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ace (F13) ((LRR P, T	, U)	wetlar	nd hydrology must be p	oresent,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	-RA 151)		unless	s disturbed or problem	atic.
	Bleyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo			•			
	Matrix (S6)	0. T. III	Anomalous E	Bright Loar	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P, _ayer (if observed						1		
l _	_ayer (ii observed).							
Type:	- h \		_				Uhadala Ball Ba	10 V	No/
	ches):		_				Hydric Soil Pr	resent? Yes	_ No <u> </u>
Remarks: Hydric soil no	nt present								
Trydic son in	n present								

Project/Site: 1461 Lowman	City/County: Gilbertown/0	Choctaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2088
Investigator(s):	Section, Township, Range		. •
	Local relief (concave, conv		Slope (%): 2
Subregion (LRR or MLRA): P Lat:	Long		Datum: WGS 84
Soil Map Unit Name: MbF2	Long	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar2 Ves V No		
Are Vegetation, Soil, or Hydrology significantly			oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pro			
SUMMARY OF FINDINGS – Attach site map showing		ed, explain any answe ations, transects	
Lister by Marketine Brownia			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Are		
Wetland Hydrology Present? Yes No ✓	within a Wetland?	Yes	No✓
Remarks:			
Upland Sample point associated with wetland W2088			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1	•		getated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B15)		Drainage Pa	
Saturation (A3) Water Marks (B1) Hydrogen Sulfide C Oxidized Rhizosph	dor (C1) eres along Living Roots (C3	Moss Trim L	Water Table (C2)
Sediment Deposits (B2) Presence of Reduc		Crayfish Bur	· ·
	ion in Tilled Soils (C6)	= '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		$\overline{}$	Position (D2)
Iron Deposits (B5) Other (Explain in R	emarks)	Shallow Aqu	1 /
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		nd Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if	available:	
Remarks:			
Hydrology not present			

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

50% of total cover:

50% of total cover: 5

50% of total cover: 48

50% of total cover:

0

0

0

0

0

0

10%

15

10

10

10

0

0

0

0

0

0

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1 Eupatorium capillifolium

2. Andropogon virginicus

Rubus allegheniensis

3. Trifolium pratense

7. Lonicera japonica

llex vomitoria

Pinus taeda

1 Pinus taeda

Sampling Point: UP2088 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____(A) **Total Number of Dominant** 4 (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species __ 20% of total cover: ___ **FAC species** x 4 = 200 50 FACU species ___✓ FAC x = 5010 **UPL** species Column Totals: 105 385 (A) Prevalence Index = B/A = 3.7Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 20% of total cover: 2 ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. **FAC Definitions of Four Vegetation Strata: FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or FAC more in diameter at breast height (DBH), regardless of **FAC** height. UPL Sapling/Shrub - Woody plants, excluding vines, less **FACU** than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 95% = Total Cover 20% of total cover: 19 Hydrophytic = Total Cover Vegetation Yes ____ No _ ✓ Present? 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below).
lydrophyti	c vegetation r	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	f indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	<u> </u>
0-4	7.5YR 4/4	100					Clay loam		
4 - 20	7.5YR 4/6	100					Clay loam		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Ma	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators fo	or Problematic Hydri	c Soils³:
Histosol	(A1)		Polyvalue Be				U) 🔲 1 cm Mu	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F1	
	d Layers (A5)	D T 11)	Depleted Ma		.0)			ous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR licky Mineral (A7) (L		Redox Dark Depleted Da					\ 153B) ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (Ti	=12)
	ick (A9) (LRR P, T)		Marl (F10) (L		5)			xplain in Remarks)	12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		Apiani in Nomano,	
	ark Surface (A12)	(/	Iron-Mangan				, T) ³ Indicat	ors of hydrophytic veg	etation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)	wetlar	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or problen	natic.
	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	0. T. III	Anomalous E	Bright Loar	ny Soils (F20) (MLR	RA 149A, 153C, 1	(53D)	
	rface (S7) (LRR P, Layer (if observed						1		
l _	Layer (II observed).							
Type:	- h \						Libraria Callin		No. of
	ches):		<u> </u>				Hydric Soil Pi	resent? Yes	_ No <u> </u>
Remarks: Hydric soil no	nt nresent								
Trydric soil ite	or present								

Project/Site: 1461 Lowman	City/County: Gilbertown/Choctaw Sampling Da	ate: 2020-01-22
Applicant/Owner: NextEra	State: Alabama Sampling Po	oint: UP2089
Investigator(s):	Section, Township, Range:	
		Slope (%): 2
Subregion (LRR or MLRA): P Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: ByB	NWI classification:	Datum.
Are climatic / hydrologic conditions on the site typical for this time of year		
Are Vegetation, Soil, or Hydrology significantly of		√ No
Are Vegetation, Soil, or Hydrology naturally prob SUMMARY OF FINDINGS – Attach site map showing		
		it reatures, etc.
Hydrophytic Vegetation Present? Yes No✓ Hydric Soil Present? Yes No✓	Is the Sampled Area	
Hydric Soil Present? Yes No✓	within a Wetland? Yes No	✓
Wetland Hydrology Present? Yes No✓		
Remarks:		
Upland Sample point associated with wetland W2089		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimur	m of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)	n or two roganous
Surface Water (A1) Aquatic Fauna (B13)		ave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		(20)
Saturation (A3) Hydrogen Sulfide Oc		
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	res along Living Roots (C3) Dry-Season Water Table ((C2)
Sediment Deposits (B2)	d Iron (C4)	
	on in Tilled Soils (C6)	al Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (_	
☐ Iron Deposits (B5) ☐ Other (Explain in Re	<u> </u>	
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)	D T 11)
Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LR	(K 1, U)
Surface Water Present? Yes No _ ✓ Depth (inches):		
Water Table Present? Yes No _ ✓ Depth (inches):		
Saturation Present? Yes No ✓ Depth (inches):		No ✓
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:	
Remarks:		
Hydrology not present		

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

Sampling Point: UP2089 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r) % Cover Species? Status **Number of Dominant Species** 1. Juniperus virginiana ✓ FACU That Are OBL, FACW, or FAC: 3 ____ (A) **Total Number of Dominant** 0 7 ____ (B) Species Across All Strata: 0 Percent of Dominant Species That Are OBL, FACW, or FAC: __ (A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species 50% of total cover: 10 20% of total cover: 4 40 ___ x 3 = 120 **FAC species** Sapling/Shrub Stratum (Plot size: 30 ft r) ___ x 4 = 200 50 FACU species **FAC** x = 5010 **UPL** species 2. Juniperus virginiana **FACU** 370 Column Totals: 100 (A) **FAC** 0 = B/A = 3.7Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ 30% = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 15 20% of total cover: 6 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must 1 Eupatorium capillifolium **FACU** be present, unless disturbed or problematic. 2. Andropogon virginicus 1 FAC **Definitions of Four Vegetation Strata:** 10 1 **FAC** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or Rubus allegheniensis 10 **UPL** more in diameter at breast height (DBH), regardless of 5. Lonicera japonica 5 **FACU** height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 0 of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. 0 50% = Total Cover 50% of total cover: 25 20% of total cover: 10 Woody Vine Stratum (Plot size: 30 ft r) 0 Hydrophytic = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: __ 20% of total cover: Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation not present

US Army Corps of Engineers

1 llex vomitoria

3. Pinus taeda

3. Pinus taeda

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 4/6	100					Clay loam		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators fo	r Problematic Hydric	: Soils³:
Histosol	(A1)		Polyvalue Be					ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F19	
	d Layers (A5) Bodies (A6) (LRR	D T II)	Depleted Ma		·e)			us Bright Loamy Soils	(F20)
_	icky Mineral (A7) (L		Redox Dark Depleted Da				☐ (MLRA	ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					illow Dark Surface (TF	(12)
	ick (A9) (LRR P, T)		Marl (F10) (L		5 ,			xplain in Remarks)	12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indicate	ors of hydrophytic veg	etation and
	rairie Redox (A16)		Umbric Surfa	ace (F13) (LRR P, T	, U)	wetlar	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo			,	•	500)	
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous E	sright Loan	ny Solis (F2U) (WILK	RA 149A, 153C, 1	53D)	
	Layer (if observed						T		
Type:	Layer (ii observed	,.							
	ches):		_				Hydric Soil Br	resent? Yes	No <u> </u>
			_				Hydric 3011 F1	esent: res	NO <u>*</u>
Remarks: Hydric soil no	ot present								
,									

Project/Site: 1461 Lowman	City/County: Gilbertown/Choctaw Sampling Date: 2020-01-22
Applicant/Owner: NextEra	City/County: Gilbertown/Choctaw Sampling Date: 2020-01-22 State: Alabama Sampling Point: UP2090
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none): Convex Slope (%): 2
Subregion (LRR or MLRA): P Lat:	Was at
Soil Map Unit Name: ByB	
•	N classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No ——————————————————————————————————	Is the Sampled Area within a Wetland? Yes No✓
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	
Saturation (A3)	The state of the s
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduction Red	ced Iron (C4)
Algal Mat or Crust (B4) Thin Muck Surface	-
Iron Deposits (B5) Other (Explain in F	· · · · · · · · · · · · · · · · · · ·
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches	
Water Table Present? Yes No ✓ Depth (inches	
Saturation Present? Yes No _✓ Depth (inches (includes capillary fringe)	s): Wetland Hydrology Present? Yes No _✓
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks: Hydrology not present	
.,,,	

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

Sampling Point: UP2090

- 30 ft r		Dominant		Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: 30 ft r) 1. Fagus grandifolia	<u>% Cover</u> 15	Species? ✓	FACU	Number of Dominant Species			
		<u> </u>	FAC	That Are OBL, FACW, or FAC: 5 (A)			
2. Pinus taeda	_ 10		FAC	Total Number of Dominant			
3. Liquidambar styraciflua	_ 5			Species Across All Strata: 7 (B)			
4. Ulmus americana	5		FAC	Percent of Dominant Species			
5	0			That Are OBL, FACW, or FAC: 71 (A/B)			
6	0						
7	0			Prevalence Index worksheet:			
8	0			Total % Cover of: Multiply by:			
	35% =	= Total Cov	er	OBL species $\frac{0}{0}$ $\times 1 = \frac{0}{0}$			
50% of total cover: 18	20% of	total cover	7	FACW species $\frac{0}{70}$ $\times 2 = \frac{0}{0.00}$			
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{73}{200}$ x 3 = $\frac{219}{1000}$			
1. Liquidambar styraciflua	15	✓	FAC	FACU species 32 x 4 = 128			
2. Ilex opaca	10	$\overline{}$	FAC	UPL species <u>5</u> x 5 = <u>25</u>			
3. Pinus taeda	5		FAC	Column Totals: <u>110</u> (A) <u>372</u> (B)			
4 Ulmus americana	5		FAC	2.4			
	0			Prevalence Index = B/A = 3.4			
5	0			Hydrophytic Vegetation Indicators:			
6	- 0			1 - Rapid Test for Hydrophytic Vegetation			
7	- 0			2 - Dominance Test is >50%			
8				3 - Prevalence Index is ≤3.0 ¹			
40		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover: 18	20% of	total cover	7				
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must			
1. Eupatorium capillifolium	15		FACU	be present, unless disturbed or problematic.			
2. Pinus taeda	10	✓	FAC	Definitions of Four Vegetation Strata:			
3. Andropogon virginicus	8	✓	FAC	Tree Meady plants evaluding vines 2 in (7.6 cm) or			
4. Rubus allegheniensis	5		UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of			
5. Lonicera japonica	2		FACU	height.			
6.	0			Sapling/Shrub – Woody plants, excluding vines, less			
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8	0						
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
9	0			or size, and woody plants less than 5.20 it tall.			
10	- 0			Woody vine – All woody vines greater than 3.28 ft in			
11	- 0			height.			
12							
22		= Total Cov	_				
50% of total cover: <u>20</u>	20% of	total cover	8				
Woody Vine Stratum (Plot size: 30 ft r)							
1	0						
2	0						
3	0						
4	0						
5	0			Hydrophytic			
		= Total Cov	er	Vegetation			
50% of total cover:				Present? Yes ✓ No			
Remarks: (If observed, list morphological adaptations bel		total oover					
Hydrophytic vegetation present. No other wetland indicato							
Trydrophytic vegetation present. No other wettand indicato	i iliet.						

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 4/6	100					Clay loam		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators fo	r Problematic Hydric	: Soils³:
Histosol	(A1)		Polyvalue Be					ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F19	
	d Layers (A5) Bodies (A6) (LRR	D T II)	Depleted Ma		·e)			us Bright Loamy Soils	(F20)
_	icky Mineral (A7) (L		Redox Dark Depleted Da				☐ (MLRA	ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					illow Dark Surface (TF	(12)
	ick (A9) (LRR P, T)		Marl (F10) (L		5 ,			xplain in Remarks)	12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indicate	ors of hydrophytic veg	etation and
	rairie Redox (A16)		Umbric Surfa	ace (F13) (LRR P, T	, U)	wetlar	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo			,	•	500)	
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous E	sright Loan	ny Solis (F2U) (WILK	RA 149A, 153C, 1	53D)	
	Layer (if observed						T		
Type:	Layer (ii observed	,.							
	ches):		_				Hydric Soil Br	resent? Yes	No <u> </u>
			_				Hydric 3011 F1	esent: res	NO <u>*</u>
Remarks: Hydric soil no	ot present								
,									

Project/Site: 1461 Lowman	City/County: Gilb	ertown/Choctaw	Sampling Date: <u>2020-01-22</u>
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2091
Investigator(s):		p, Range:	
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: ByB		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y	roor2 Vos 🗸 I		
			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology significantl			
Are Vegetation, Soil, or Hydrology naturally p	oblematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling po	int locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓			
Hydric Soil Present? Yes No ✓	Is the San	npled Area	No✓
Wetland Hydrology Present? Yes No _✓	within a W	vetiand? Yes	NO <u>*</u>
Remarks:			
Upland Sample point associated with wetland W2091			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	1		I Cracks (B6)
Surface Water (A1) Aquatic Fauna (B			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)	•		atterns (B10)
☐ Saturation (A3) ☐ Hydrogen Sulfide		Moss Trim I	
	heres along Living F		Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Bu	rrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Redu	ction in Tilled Soils	(C6) Saturation \	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	, ,		Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aq	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
		<u> </u>	moss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (inches	e).		
Water Table Present? Yes No Depth (inchese)			
Saturation Present? Yes No _ ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

Prevalence Index	Absolute	Dominant	Indicator	Dominance Test worksheet:
O		Species?		Number of Dominant Species
Total Number of Dominant Species Arross All Strats: 5 (B) Percent of Dominant Species Arross All Strats: 5 (B) Percent of Dominant Species Total Are OBL, FACW, or FAC: 40 (A/E)			FACU	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
O				Total Number of Dominant
Percent of Dominant Species That Are OBL, FACW, or Sell, Are S				
O	0			Description of Description of Occasion
O	0			
O	0			, ,
O	0			
Solida Cover Solida Cover Solida Cover Solida Cover Solida Cover Solida Cover Solida Solida	0			
Sapling/Shrub Stratum (Plot size: 30 ft r)	10% :	= Total Cov	/er	
Sapiling/Shrub Stratum (Plot size: 30 ft r Pinus taeda	20% of	total cover	2	FACW species $\frac{5}{2}$ x 2 = $\frac{10}{100}$
Description Section				FAC species 35 x 3 = 105
Pinus taeda	15	✓	FACU	
Column Totals: 100	5		FAC	
Prevalence Index	0			Column Totals: 100 (A) 355 (B)
Hydrophytic Vegetation Indicators:	0			2.6
Second	0			
1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of solidation 2 - Dominance Test is solidation 2 - Dominance Test i				1 📥
2 - Dominance Test is >50% 20% = Total Cover 20% of total cover. 4 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 2 - Dominance Test is >50%				
Solution Solution				2 - Dominance Test is >50%
Solidation Sol				3 - Prevalence Index is ≤3.0 ¹
Serb Stratum (Plot size: 30 ft r 25				Problematic Hydrophytic Vegetation ¹ (Explain)
Eupatorium capillifolium Andropogon virginicus Definitions of Four Vegetation Strata: Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) once in diameter at breast height (DBH), regardless of height. Smilax laurifolia Smilax laurifolia Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) once in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No✓	20% of	total cover	: 4	
Andropogon virginicus Quercus falcata Rubus pensilvanicus Pinus taeda Smilax laurifolia O O O O O O O O O O O O O	25		FACIL	
Quercus falcata 10				
Rubus pensilvanicus				Definitions of Four Vegetation Strata:
Pinus taeda Pinus taeda Smilax laurifolia Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody vine - All woody vine - All woody vine - All woody vine - All woody vines greater than 3.28 ft in height. Woody Vine - All woody vine - All woody vines greater than 3.28 ft in height. Woody Vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Smilax laurifolia 5				more in diameter at breast height (DBH), regardless of
0				height.
O			FACW	Sapling/Shrub - Woody plants, excluding vines, less
Section Sec				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0	_ 0			Herb – All herbaceous (non-woody) plants, regardless
1.	0			
1	0			Woody vine – All woody vines greater than 3.28 ft in
2	0			
Total Cover	0			
50% of total cover: 35	70% :	= Total Cov	/er	
Voody Vine Stratum (Plot size: 30 ft r				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0			
0	0			
0	0			
Hydrophytic Vegetation Present? Yes No	0			
= Total Cover 50% of total cover: 20% of total cover: Present? Yes No ✓	0			
50% of total cover: Present? Yes No	- —			
50% of total cover: 20% of total cover:		 i otal Cov 	/er	
Remarks: (If observed, list morphological adaptations below).				Fleselit: les NO
		total cover	:	Present: Tes No
	20% of	total cover	:	riesellt? Tes No
	20% of	total cover	:	riesent? Tes No
50% of total cover:		10 0 0 0 0 0 0 10% 20% of 1 15 5 0 0 0 0 20% of 1 20% of 1	10	10

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 4/6	100					Clay loam		
-									
-									
				- ——					
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators fo	r Problematic Hydric	: Soils³:
Histosol	(A1)		Polyvalue Be					ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F19	
	d Layers (A5) Bodies (A6) (LRR	D T II)	Depleted Ma		·e)			us Bright Loamy Soils	(F20)
_	icky Mineral (A7) (L		Redox Dark Depleted Da				☐ (MLRA	ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					illow Dark Surface (TF	(12)
	ick (A9) (LRR P, T)		Marl (F10) (L		5 ,			xplain in Remarks)	12)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indicate	ors of hydrophytic veg	etation and
	rairie Redox (A16)		Umbric Surfa	ace (F13) (LRR P, T	, U)	wetlar	nd hydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo			,	•	500)	
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous E	sright Loan	ny Solis (F2U) (WILK	RA 149A, 153C, 1	53D)	
	Layer (if observed						T		
Type:	Layer (ii observed	,.							
	ches):		_				Hydric Soil Br	resent? Yes	No <u> </u>
			_				Hydric 3011 F1	esent: res	NO <u>*</u>
Remarks: Hydric soil no	ot present								
,									

Project/Site: 1461 Lowman	City/County: Gilb	ertown/Choctaw	Sampling Date: 2020-01-23
Applicant/Owner: NextEra	onyroounty:	State: Alabama	Sampling Point: UP2092
Investigator(s):	Section, Townshir	o, Range:	
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: BnE2		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes ✓		
Are Vegetation, Soil, or Hydrology significantly		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally pr		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing			
Livetrophytic Vegetation Procest?			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sam	-	,
Wetland Hydrology Present? Yes No ✓	within a W	/etland? Yes	No✓_
Remarks:			
Upland Sample point associated with wetland W2091			
LIVEROLOGY			
HYDROLOGY		Casandan, India	atana (asimina una afficia a surina di
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1)			getated Concave Surface (B8) atterns (B10)
Saturation (A3) Hydrogen Sulfide (Moss Trim L	
	neres along Living F		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	
	ction in Tilled Soils		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	: (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in F	Remarks)	Shallow Aqu	ıitard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
Water-Stained Leaves (B9)		<u> </u>	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _ ✓ Depth (inches Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			ntr res Nov
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

VEG

e Stratum (Plot size: 30 ft r) Fagus grandifolia Quercus alba Pinus taeda Liquidambar styraciflua	20 15 10 5 0 0	Species? √ √	FACU FACU FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Quercus alba Pinus taeda Liquidambar styraciflua	15 10 5 0	<u> </u>	FACU	Total Number of Dominant
Pinus taeda Liquidambar styraciflua	10 5 0	<u> </u>		
Liquidambar styraciflua	5 0 0		1710	Species Across All Strata: 8 (B)
	0		FAC	Species Across All Strata: 8 (B)
	0		1710	Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50 (A/E
				Prevalence Index worksheet:
	0			Total % Cover of: Multiply by:
25	500/	Total Cov		OBL species 0 x 1 = 0
	20% of			FACW species $0 \times 2 = 0$
50% of total cover: 25	20% 01	total cover	-10	FAC species 50 x 3 = 150
ling/Shrub Stratum (Plot size: 30 ft r) Liquidambar styraciflua	10	1	FAC	FACU species 60 x 4 = 240
Quercus alba	10		FACU	UPL species 0 x 5 = 0
Pinus taeda	5		FAC	Column Totals: 110 (A) 390 (B
	- 0		-7.0	
	0			Prevalence Index = $B/A = 3.5$
	- 0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
	- 0			2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 13	20% of	Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
Andropogon virginicus Quercus falcata	15	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Eupatorium capillifolium	5		FACU	Toron Manufactor and edition views 0 in (7.0 and)
Pinus taeda	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
	0			height.
	0			Sapling/Shrub – Woody plants, excluding vines, less
	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			Herb – All herbaceous (non-woody) plants, regardles
	0			of size, and woody plants less than 3.28 ft tall.
	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
	0			
	35% =	Total Cov	er	
50% of total cover: 18 ody Vine Stratum (Plot size: 30 ft r)	20% of	total cover	7	
/ Constitution (Flore Glade)	0			
	0			
	0			
	0			
	0			Literatura pication
		Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No✓
narks: (If observed, list morphological adaptations bel		total cover		

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	_ <u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		
-									
-									
-									
	oncentration, D=De					ains.		L=Pore Lining, M=Mat	
l <u> </u>	Indicators: (Appli	cable to all Li	_				_	r Problematic Hydric	: Soils³:
Histosol			Polyvalue Be					ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside	
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		F2)			t Floodplain Soils (F19 us Bright Loamy Soils	
	Bodies (A6) (LRR	P T II)	Redox Dark		:6)		(MLRA		(F20)
	icky Mineral (A7) (L		Depleted Da					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					illow Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L		,			xplain in Remarks)	,
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangan				•	ors of hydrophytic veg	
	rairie Redox (A16)					, U)		nd hydrology must be i	
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo			,	49A) RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,	S. T. U)	Allomaious L	ongni Loai	ny sons (rzo) (IVILI	(A 149A, 1990, 1	33D)	
	Layer (if observed						T		
Type:	• •	,							
Depth (in	ches):		<u> </u>				Hydric Soil Pr	resent? Yes	
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman	City/County: Gilbe	ertown/Choctaw	Sampling Date: 2020-01-23
Applicant/Owner: NextEra	, ,	State: Alabama	Sampling Point: UP2093/UP2094/UP2095/UP
Investigator(s):		, Range:	
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P		Long:	Datum: WGS 84
Soil Map Unit Name: BnE2		LongNWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of you	oor2 Voo ✓ N		
			oresent? YesNo
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing	g sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓	1- 4 0	ulad Ausa	
Hvdric Soil Present? Yes No ✓	Is the Sam	•	No ✓
Wetland Hydrology Present? Yes No _✓	within a We	etiand? fes	NO
Remarks:			
Upland Sample point associated with wetlands W2093, W2094, W2095 and W2096			
172555, 172554, 172555 and 172555			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1)			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)	•	Drainage Pa	
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	heres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	i i
☐ Drift Deposits (B3) ☐ Recent Iron Reduc	ction in Tilled Soils (C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	∌ (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Uther (Explain in F	Remarks)	Shallow Aqu	• •
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
Water-Stained Leaves (B9)		<u></u> Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _ ✓ Depth (inches Water Table Present? Yes No _ ✓ Depth (inches	· I		
Saturation Present? Yes No V Depth (inches		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			it! lesNO
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspect	tions), if available:	
Remarks:			
Hydrology not present			

- 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?	Status FACU	Number of Dominant Species
1. Fagus grandifolia	20	√		That Are OBL, FACW, or FAC: 4 (A)
2. Quercus alba	15	- ✓	FACU	Total Number of Dominant
3. Pinus taeda	10	<u> </u>	FAC	Species Across All Strata: 8 (B)
4. Liquidambar styraciflua	5		FAC	Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			Basedon de la decembra de la constanta de la c
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	50% =	Total Cov	er	OBL species 0 x 1 = 0
50% of total cover: <u>25</u>	20% of	total cover:	10	FACW species $\frac{0}{50}$ x 2 = $\frac{0}{150}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 x 3 = 150
1. Liquidambar styraciflua	10	✓	FAC	FACU species $\frac{60}{2}$ $\times 4 = \frac{240}{2}$
2. Quercus alba	10	√	FACU	UPL species 0 x 5 = 0
3. Pinus taeda	5	√	FAC	Column Totals: <u>110</u> (A) <u>390</u> (B)
4	0			Prevalence Index = B/A = 3.5
5.	0			
6.	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8		Total Cov		3 - Prevalence Index is ≤3.01
500/ oftatal access 13		total cover:		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>13</u>	20% of	total cover:		
Herb Stratum (Plot size: 30 ft r) 1. Andropogon virginicus	15	,	EAC	¹ Indicators of hydric soil and wetland hydrology must
	10		FAC	be present, unless disturbed or problematic.
2. Quercus falcata			FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Pinus taeda	5		FAC	more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine All woody vines greater than 2.29 ft in
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			
	35% =	Total Cov	er	
50% of total cover: 18		total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
	0			
3	0			
4	0			
5				Hydrophytic
		Total Cov		Vegetation Present? Yes No _✓
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL Sampling Point: UP2083/JP2094/JP2095/J

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	indicator	or confirn	n the absence of	f indicators.)	
Depth	Matrix			x Feature				_	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Rema	arks
0-2	7.5YR 4/4						Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		
-									
	ncentration, D=De					ains.	² Location: P	L=Pore Lining, M=	Matrix.
	ndicators: (Appli	cable to all Li						or Problematic Hy	dric Soils":
Histosol (•		Polyvalue Be					ick (A9) (LRR O)	
Black His	ipedon (A2)		Thin Dark Su Loamy Muck					ick (A10) (LRR S)	side MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			(0)			(F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		(- –)			ous Bright Loamy S	
	Bodies (A6) (LRR	P, T, U)	Redox Dark		- 6)		(MLRA	A 153B)	
	cky Mineral (A7) (L		Depleted Da					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre	•	8)			allow Dark Surface	'
	ck (A9) (LRR P, T) Below Dark Surfa		Marl (F10) (L Depleted Ocl		(MI DA 1	E4)	Other (E	xplain in Remarks)
	rk Surface (A12)	CE (ATT)	Iron-Mangan				T) ³ Indicat	tors of hydrophytic	vegetation and
	airie Redox (A16)	(MLRA 150A)					•	nd hydrology must	-
	ucky Mineral (S1)		Delta Ochric					s disturbed or prob	
	leyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	C T II)	Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 1	153D)	
	face (S7) (LRR P, ayer (if observed						T		
Type:	ayer (ii observed	<i>)</i> •							
	hes):		_				Hydric Soil P	resent? Yes	No_ ✓
Remarks:							Tiyane don't	1636111: 163_	
Hydric soil no	t present								

Project/Site: 1461 Lowman	City/County: Gilbertown	/Choctaw	Sampling Date: 2020-01-23
Applicant/Owner: NextEra		State: Alabama	Sampling Date: 2020-01-23 Sampling Point: UP2097/UP2098
Investigator(s)	Section, Township, Range		
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, con		Slope (%): 2
Subregion (LRR or MLRA): P Lat:	Long		Datum: WGS 84
	_ Lone		
Soil Map Unit Name: OkA			tion:
Are climatic / hydrologic conditions on the site typical for this time of year			
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "No	ormal Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pr	blematic? (If need	led, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point loc	ations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled A	rea	
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wetland	? Yes	No <u>✓</u>
Remarks:			
Upland Sample point associated with wetlands W2097 and W2098			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1	3)		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	•	Drainage Pat	
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	
	eres along Living Roots (C		Water Table (C2)
Sediment Deposits (B2)	ed Iron (C4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	tion in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in F	emarks)	Shallow Aqui	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches	I		
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	: Wetla	and Hydrology Presen	t? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	s, previous inspections), i	if available:	
Remarks: Hydrology not present			
Trydiology not procent			

Trace Streeture (Blateiner, 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?	Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4.	0			(-,
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
	0			That Are OBL, FACW, or FAC: 33 (A/B)
6	- 0			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0			
		= Total Cov	/er	
50% of total cover:	20% of	total cover	:	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species <u>37</u> x 3 = <u>111</u>
1. Quercus falcata	10	✓	FACU	FACU species 60 x 4 = 240
2. Quercus nigra	2		FAC	UPL species 0 x 5 = 0
	0		1710	Column Totals: 97 (A) 351 (B)
3	_ -			(-)
4	0			Prevalence Index = $B/A = 3.6$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0¹
	12% :	= Total Cov	/er	
50% of total cover: 6	20% of		_	Problematic Hydrophytic Vegetation ¹ (Explain)
	20 /0 01	total cover		
Herb Stratum (Plot size: 5 ft r 1. Eupatorium capillifolium	35	,	EACH	¹ Indicators of hydric soil and wetland hydrology must
			FACU	be present, unless disturbed or problematic.
2. Andropogon virginicus	30	✓	FAC	Definitions of Four Vegetation Strata:
3. Quercus falcata	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Pinus taeda	5		FAC	more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	5		FACU	height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	- 0			of size, and woody plants less than 5.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	85% :	= Total Cov	/er	
50% of total cover: 43	20% of	total cover	: 17	
Woody Vine Stratum (Plot size: 30 ft r)				
1.	0			
	0			
2	0			
3	0			
4	- 0			
5				Hydrophytic
		= Total Cov	/er	Vegetation Present? Yes No
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations bel	ow).			
(,.			

SOIL Sampling Point: UP2097/UP2098

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	indicator	or confirn	n the absence of	f indicators.)	
Depth	Matrix			x Feature				_	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Rema	arks
0-2	7.5YR 4/4						Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		
-									
	ncentration, D=De					ains.	² Location: P	L=Pore Lining, M=	Matrix.
	ndicators: (Appli	cable to all Li						or Problematic Hy	dric Soils":
Histosol (•		Polyvalue Be					ick (A9) (LRR O)	
Black His	ipedon (A2)		Thin Dark Su Loamy Muck					ick (A10) (LRR S)	side MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			(0)			(F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma		(- –)			ous Bright Loamy S	
	Bodies (A6) (LRR	P, T, U)	Redox Dark		- 6)		(MLRA	A 153B)	
	cky Mineral (A7) (L		Depleted Da					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre	•	8)			allow Dark Surface	'
	ck (A9) (LRR P, T) Below Dark Surfa		Marl (F10) (L Depleted Ocl		(MI DA 1	E4)	Other (E	xplain in Remarks)
	rk Surface (A12)	CE (ATT)	Iron-Mangan				T) ³ Indicat	tors of hydrophytic	vegetation and
	airie Redox (A16)	(MLRA 150A)					•	nd hydrology must	-
	ucky Mineral (S1)		Delta Ochric					s disturbed or prob	
	leyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	C T II)	Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 1	153D)	
	face (S7) (LRR P, ayer (if observed						T		
Type:	ayer (ii observed	<i>)</i> •							
	hes):		_				Hydric Soil P	resent? Yes	No_ ✓
Remarks:							Tiyane don't	1636111: 163_	
Hydric soil no	t present								

Project/Site: 1461 Lowman	City/County: Silas/	/Choctaw	Sampling Date: 2020-01-25
Applicant/Owner: NextEra			Sampling Point: UP2099/UP2100
Investigator(s):	Section, Township,		
Landform (hillslope, terrace, etc.): Upland		e, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: BrE2		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Ves ✓ N/		
Are Vegetation, Soil, or Hydrology significantly			oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pr		f needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing	3 sampling poin	it locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Samp	oled Area	
Hydric Soil Present? Yes No✓	within a We		No ✓
Wetland Hydrology Present? Yes No ✓			
Remarks: Upland sample point associated with wetland W2099 and W2100			
Opiana sample point associated with wetland vv2033 and vv2100			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
☐ Surface Water (A1) ☐ Aquatic Fauna (B1	13)		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)	5) (LRR U)	Drainage Pa	tterns (B10)
Saturation (A3) Hydrogen Sulfide	Odor (C1)	Moss Trim Li	nes (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosph	neres along Living Ro	oots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	, ,	Crayfish Buri	rows (C8)
	ction in Tilled Soils (C		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqui	, ,
Inundation Vis ble on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral	noss (D8) (LRR T, U)
Field Observations:	——————————————————————————————————————	<u> </u>	loss (Do) (LRK 1, O)
Surface Water Present? Yes No _ ✓ Depth (inches	4):		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Presen	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspecti	ons), if available:	
Remarks:			
Hydrology not present			

Sampling	Point:	UP2099/UP2100

Tree Stratum (Plot size: 30 ft r	0/ 0		Indicator	Dominance Test worksheet:
	% Cover 0	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			
5.	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6.	0			That Ale OBL, FACTV, of FAC.
	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
		= Total Cov	er	FACW species 0 x 2 = 0
50% of total cover:	20% of	total cover	:	FAC species 30 x 3 = 90
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1. Pinus taeda	5	✓	FAC	FACU species 30 x 4 = 120
2. Quercus falcata	5	✓	FACU	UPL species 10 x 5 = 50
3.	0			Column Totals: <u>70</u> (A) <u>260</u> (B)
	0			
4	0			Prevalence Index = B/A = 3.7
5	0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.01
	10% =	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover	2	- 1 Tobernatio Trydrophytic Vogetation (Explain)
Herb Stratum (Plot size: 30 ft r)				1
1. Eupatorium capillifolium	25	/	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon virginicus	15		FAC	
				Definitions of Four Vegetation Strata:
3. Imperata cylindrica	10		UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rubus pensilvanicus	10		FAC	more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			1
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 5.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	60% =	= Total Cov	er	
		total cover	. 12	
50% of total cover: 30	20% of	total cover		
50% of total cover: 30 Woody Vine Stratum (Plot size: 30 ft r	20% of	total cover		
Woody Vine Stratum (Plot size: 30 ft r)	20% of 0	total cover		
Woody Vine Stratum (Plot size: 30 ft r) 1.	_			
Woody Vine Stratum (Plot size: 30 ft r) 1	0			
Woody Vine Stratum (Plot size: 30 ft r) 1.	0 0			
Woody Vine Stratum (Plot size: 30 ft r) 1	0 0 0 0			
Woody Vine Stratum (Plot size: 30 ft r) 1.	0 0			Hydrophytic
Woody Vine Stratum (Plot size: 30 ft r) 1.	0 0 0 0 0	= Total Cov		Hydrophytic Vegetation Present? Yes No✓

SOIL Sampling Point: UP2099/UP2100

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence of inc	dicators.)
Depth	Matrix			x Feature		. 3		
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	7.5YR 5/8	100					Sandy loam	
								_
¹Type: C=Co	ncentration, D=De	oletion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=F	Pore Lining, M=Matrix.
	ndicators: (Applic							roblematic Hydric Soils³:
Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U)	A9) (LRR O)
_	ipedon (A2)		Thin Dark Su					A10) (LRR S)
Black His			Loamy Muck			(O)		rtic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark				(MLRA 15	
	cky Mineral (A7) (L		Depleted Day					Material (TF2) v Dark Surface (TF12)
	esence (A8) (LRR l ck (A9) (LRR P, T))	Redox Depre		0)			nin in Remarks)
	Below Dark Surface	ce (A11)	Depleted Oct		(MLRA 1	51)	Other (Expla	un in Nemarks)
	rk Surface (A12)	()	Iron-Mangan		•		T) ³ Indicators	of hydrophytic vegetation and
	airie Redox (A16) (MLRA 150A)					•	nydrology must be present,
Sandy M	ucky Mineral (S1) (LRR O, S)	Delta Ochric					sturbed or problematic.
	leyed Matrix (S4)		Reduced Ver					
	edox (S5)		Piedmont Flo			•	•	
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (l	F20) (MLR	A 149A, 153C, 153	D)
	face (S7) (LRR P, and a served)							
_	.ayer (II observed)	•						
Type:	ches):		_				Hydric Soil Prese	ent? Yes No✓_
	<u> </u>		_				Hydric 3011 Frest	ent: resNo
Remarks:								

Project/Site: 1461 Lowman	City/County: Nee	dham/Choctaw	Sampling Date: <u>2020-01-28</u>
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2101/UP2102
Investigator(s):		o, Range:	
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): None	Slope (%): 1
Subregion (LRR or MLRA): P Lat:	25001101101101101101101101101101101101101	Long:	Datum: WGS 84
Soil Map Unit Name: IzA		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye	oor2 Von ✓ N		
			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ງ sampling poi	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sam	-	No✓
Wetland Hydrology Present? Yes No✓	within a W	retiand? Yes	NO
Remarks:			
Upland sample point associated with wetlands W2101 and W2102			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			I Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1)			egetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)	•		atterns (B10)
☐ Saturation (A3) ☐ Hydrogen Sulfide		Moss Trim L	
	neres along Living F		Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	ction in Tilled Soils	(C6) Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aqu	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	
		<u> </u>	moss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (inches	٠١٠		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No _ ✓ Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

20 # -			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species		Number of Dominant Species
1. Pinus taeda	20		FAC	That Are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6.	0			That Ale OBL, FACW, of FAC.
	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
40		= Total Co		FACW species $0 \times 2 = 0$
50% of total cover: <u>10</u>	20% of	f total cove	er: <u>4</u>	FAC species 55 x 3 = 165
Sapling/Shrub Stratum (Plot size: 30 ft r)				40
1	0			- 100
2	0			
3	0			Column Totals: <u>115</u> (A) <u>425</u> (B)
4.	0			Prevalence Index = B/A = 3.7
5.	0			
6.	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	f total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	25	✓	FACU	be present, unless disturbed or problematic.
2. Imperata cylindrica	20	✓	UPL	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	15		FAC	- Waterland - William 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
4. Lonicera japonica	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Rubus pensilvanicus	10		FAC	height.
	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			diano in. Don ana greater than e.20 it (1 m) tan.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	85%	= Total Co	over	
50% of total cover: 43	20% of	f total cove	er: 17	
Woody Vine Stratum (Plot size: 30 ft r)				
1 Vitis cinerea	10	✓	FAC	
2.	0			
3	0			
J	0			
4.	0			
5	1001			Hydrophytic
_		= Total Co	_	Vegetation Present?
50% of total cover: 5	20% of	f total cove	er: <u>2</u>	10310
Remarks: (If observed, list morphological adaptations bel	ow).			

SOIL Sampling Point: UP2101/UP2102

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of inc	dicators.)
Depth	Matrix	0/		x Feature		1 2	Toutous	Damada
(inches) 0 - 3	Color (moist) 10YR 2/1	_ <u>%</u>	Color (moist)	<u>%</u>	Type	Loc ²	Texture Loamy sand	Remarks
3 - 20	10YR 4/6	100					Loam	
-								
								_
1=		- DM 5					21	N
			Reduced Matrix, MS RRs, unless other			ains.		ore Lining, M=Matrix. roblematic Hydric Soils³:
Histosol		cable to all L	Polyvalue Be			PRSTI		-
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)
	stic (A3)		Loamy Mucky					rtic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		-0)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S Depleted Dar				(MLRA 15	3B) Material (TF2)
	esence (A8) (LRR		Redox Depre		, ,			v Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L		-,			in in Remarks)
Depleted	d Below Dark Surfa	ce (A11)	Depleted Och	nric (F11)	(MLRA 1	51)		
ı =	ark Surface (A12)		Iron-Mangane				•	of hydrophytic vegetation and
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa Delta Ochric			, U)		lydrology must be present, sturbed or problematic.
_	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ver			OA. 150B)		sturbed of problematic.
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D	0)
	rface (S7) (LRR P,							
	_ayer (if observed):						
Type:			_				1	
	ches):						Hydric Soil Prese	ent? Yes No <u>√</u>
Remarks:								

Project/Site: 1461 Edge Lowman	City/County: Was	hington	Sampling Date: 2020-03-05
Applicant/Owner: Edge Lowman	, , ,		Sampling Point: UP2105
Investigator(s):	Section, Township,		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concay	e, convex, none): Concave	Slope (%): 2
Subregion (LRR or MLRA): P 135 Lat:	Local Teller (concav	Long:	Datum: WGS 84
Soil Map Unit Name: MbF2		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of year			
Are Vegetation, Soil, or Hydrology significantly		re "Normal Circumstances" pr	
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (I	f needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	յ sampling poin	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes _ ✓ No			
Hydric Soil Present? Yes No	Is the Samp		
Hydrophytic Vegetation Present? Yes ✓ No ——————————————————————————————————	within a We	tland? Yes	No✓
Remarks:			
Upland sample point UP2105			
HYDROLOGY			
Wetland Hydrology Indicators:			ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil C	
Surface Water (A1) Aquatic Fauna (B1) Mad Deposits (R45)			etated Concave Surface (B8)
☐ High Water Table (A2) ☐ Marl Deposits (B15) ☐ Saturation (A3) ☐ Hydrogen Sulfide (Drainage Patt Moss Trim Lin	
	neres along Living Ro		Vater Table (C2)
Sediment Deposits (B2)		Crayfish Burro	
	ction in Tilled Soils (C		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	: (C7)	Geomorphic F	Position (D2)
Iron Deposits (B5) Uther (Explain in F	Remarks)	Shallow Aquit	` '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		☐ Sphagnum mo	oss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No✓ Depth (inches	۸.		
Water Table Present? Yes No _ ✓ Depth (inches	· I		
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Present	? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspecti	ons), if available:	
Remarks:			
Hydrology not present			

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: UP2105 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r) % Cover Species? Status **Number of Dominant Species** 1. Pinus taeda FAC 3 (A) That Are OBL, FACW, or FAC: 2. Quercus falcata FACU **Total Number of Dominant** 0 5 (B) Species Across All Strata: 0 **Percent of Dominant Species** 60 That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species 50% of total cover: 13 20% of total cover: 5 x 3 = 0 **FAC species** Sapling/Shrub Stratum (Plot size: 30 ft r) ___ x 4 = 0 FACU species FAC 1. Pinus taeda x = 0**UPL** species 2. Quercus falcata **FACU** Column Totals: 100 (A) 3. Ilex opaca FAC 0 = B/A = 3.3Prevalence Index Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 0 ✓ 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 28 _ 20% of total cover: 11 Herb Stratum (Plot size: 30 ft r) ¹Indicators of hydric soil and wetland hydrology must 1 Bouteloua dactyloides **FACU** be present, unless disturbed or problematic. 2. Andropogon gerardii FAC **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. = Total Cover 50% of total cover: 10 20% of total cover: 4 Woody Vine Stratum (Plot size: 30'r) Hydrophytic = Total Cover Vegetation Yes √ No ___ Present? 50% of total cover: _ 20% of total cover: Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation is present

SOIL Sampling Point: UP2105

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the in	ndicator	or confirn	n the absence	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/3	100					Sand			
-										
_										
-										
¹Type: C=C	oncentration, D=De	nletion RM=R	Reduced Matrix M	S=Masked	Sand Gr	aine	² Location:	PI =Pore I	ining, M=Matri	·
	ndicators: (Appli					unio.			matic Hydric	
Histosol			Polyvalue Be			RRSTI		uck (A9) (L	-	
_	oipedon (A2)		Thin Dark Su					uck (A10) (•	
Black Hi			Loamy Muck							/ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)	·				(LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anoma	lous Bright	Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark					A 153B)		
	cky Mineral (A7) (L		Depleted Da					rent Materi		
	esence (A8) (LRR		Redox Depre		()				Surface (TF1	2)
	ck (A9) (LRR P, T)		Mari (F10) (L		MI DA 4	54)	Other (Explain in F	Remarks)	
	l Below Dark Surfa ırk Surface (A12)	ce (ATT)	☐ Depleted Oc Iron-Mangan				T) ³ Indica	atore of by	drophytic vege	tation and
	rairie Redox (A16)	(MLRA 150A)					•		ogy must be p	
	lucky Mineral (S1)		Delta Ochric			, •,			ed or problema	
_	leyed Matrix (S4)	(=:::::::::::::::::::::::::::::::::::::	Reduced Ve			0A, 150B)			a or promoning	
	edox (S5)		Piedmont Fk							
Stripped	Matrix (S6)		Anomalous I	Bright Loam	ny Soils (F20) (MLR	RA 149A, 153C,	153D)		
	face (S7) (LRR P,									
Restrictive I	ayer (if observed):								
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Edge Lowman	City/County: Choc	taw	Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman	, , ,		Sampling Point: UP2106/ UP2107
Investigator(s):	Section, Township, F		
Landform (hillslope, terrace, etc.): Upland		e, conve <u>x, none):</u> None	Slope (%): 0
Subregion (LRR or MLRA): P 135 Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: SaB		NWI classificat	N//A
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significantly			resent? YesNo✓
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	t locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No ✓			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sample		/
Wetland Hydrology Present? Yes No _✓	within a Wet	land? Yes	No✓
Remarks:			
Upland sample point UP2106/ UP2107			
Area disturbed from previous railroad use.			
HYDROLOGY		0	(
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B*) Marl Deposits (B1)		Drainage Pat	etated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lin	
	heres along Living Roo		Vater Table (C2)
Sediment Deposits (B2)		Crayfish Burn	
Drift Deposits (B3)	ction in Tilled Soils (Ce	6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	∌ (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in F	Remarks)	Shallow Aquit	• •
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
☐ Water-Stained Leaves (B9) Field Observations:		☐ Sphagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (inches	2).		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No _ ✓ Depth (inches		Wetland Hydrology Presen	t? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectio	ons), if available:	
Remarks:			
Hydrology not present			

Sampling	Point:	UP2106/ UP2107

			Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species 3
1	0			That Are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant 6
3	0			Species Across All Strata: (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC:50 (A/B)
6	- 0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8				OBL species 0 x 1 = 0
		= Total Cov		FACW species 0 x 2 = 0
50% of total cover:	20% of	total cover		FAC species 0 x 3 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)	40	,	EAC	FACU species 0 x 4 = 0
1. Liquidambar styraciflua	10		FAC	UPL species 0 x 5 = 0
2. Quercus nigra	10	<u> ✓</u>	FAC	Column Totals: 100 (A) 365 (B)
3	0			Column Totals. (A)
4	0			Prevalence Index = $B/A = \frac{3.7}{}$
5	0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	<u> 4</u>	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Allium cernuum	15		FACU	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	15	✓	FACU	Definitions of Four Vegetation Strata:
3. Lonicera japonica	15	✓	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Lygodium japonicum	15	✓	FAC	more in diameter at breast height (DBH), regardless of
5. Asplenium platyneuron	10		FACU	height.
6. Trifolium pratense	10		FACU	Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine All woody vines greater than 2.29 ft in
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			
	80% =	Total Cov	er	
40		total cover		
50% of total cover: 40				
50% of total cover: 40 Woody Vine Stratum (Plot size: 30 ft r				
Woody Vine Stratum (Plot size: 30 ft r)	0			
Woody Vine Stratum (Plot size: 30 ft r) 1.	0 0			
Woody Vine Stratum (Plot size: 30 ft r) 1) 2				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft r</u>) 1 2 3	0			
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3 4	0			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft r</u>) 1 2 3	0 0 0 0			Hydrophytic Vegetation
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3 4	0 0 0 0	= Total Cov		Hydrophytic Vegetation Present? Yes No✓

SOIL Sampling Point: UP2106/UP2107

Profile Desc	ription: (Describe	e to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence	of indicator	rs.)	
Depth	Matrix			x Features	3					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-5	10YR 3/2	100					Sandy loam	Could not dig de	eeper than 5 inche	s due to railroad
-										
l — -										
-										
-							2			
	oncentration, D=De					ains.			ning, M=Matri	
l <u> </u>	ndicators: (Appli	cable to all Li	_						natic Hydric	Soils":
Histosol			Polyvalue Be					luck (A9) (LI		
	pipedon (A2)		Thin Dark Su	, ,				/luck (A10) (I		
Black Hi	, ,		Loamy Muck			R O)				MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	•	-2)					(LRR P, S, T)
	Layers (A5)	D T 11)	Depleted Ma		0)			_	_oamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark				,	RA 153B) arent Materia	L (TEO)	
	cky Mineral (A7) (L		Depleted Da				_		Surface (TF1	2)
	esence (A8) (LRR ck (A9) (LRR P, T)		Redox Depre))			(Explain in R	•	2)
	Below Dark Surfa		Depleted Oc	•	MIRA 1	51)	Other	(Explain iii ix	emarks)	
	irk Surface (A12)	00 (/ (1 1)	Iron-Mangan				.T) ³ Indic	ators of hydr	ophytic vege	tation and
_	rairie Redox (A16)	(MLRA 150A)					•		gy must be p	
	lucky Mineral (S1)		Delta Ochric			, -,			l or problema	
	leyed Matrix (S4)	, , , ,	Reduced Ve			0A, 150B)				
	edox (S5)		Piedmont Flo							
Stripped	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (l	F20) (MLR	RA 149A, 153C	, 153D)		
Dark Su	rface (S7) (LRR P,	S, T, U)								
Restrictive I	ayer (if observed):								
Type:			_							
Depth (inc	ches):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:										
	t present. Multiple	attempts were	made to dig past	5 inches. A	All resulte	d in refusa	al due to fill fron	n the railroad	l.	

Project/Site: 1461 Edge Lowman	City/County: Choct	taw	Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman			Sampling Point: UP2108/ UP2109/UP2110
Investigator(s):	Section, Township, F		
	Local relief (concave		Slope (%):0
Subregion (LRR or MLRA): P 135 Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: Iza		NWI classificati	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Ves ✓ No		
Are Vegetation ✓, Soil ✓, or Hydrology ✓ significantly			esent? YesNo
Are Vegetation, Soil, or Hydrology naturally pro		needed, explain any answers	
SUMMARY OF FINDINGS – Attach site map showing			•
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wortland Hydrology Present?	Is the Sample		,
Wetland Hydrology Present? Yes No ✓	within a Wetl	and? Yes	No✓
Remarks:			
Upland sample points UP2108/UP2109/UP2010			
Area disturbed due to previous use by railroad			
HYDROLOGY			
Wetland Hydrology Indicators:			ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Sparrack Vage	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B1		Drainage Patt	etated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide (C		Moss Trim Lin	
	eres along Living Roo		Vater Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Burro	ows (C8)
	tion in Tilled Soils (C6	S) 🔲 Saturation Vis	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	` '	Geomorphic F	` '
Iron Deposits (B5) Union Deposits (B5) Union Deposits (B5) Union Deposits (B5)	lemarks)	Shallow Aquit	` '
Inundation Vis ble on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral	oss (D8) (LRR T, U)
Field Observations:		<u> </u>	555 (DO) (ERR 1, O)
Surface Water Present? Yes No ✓ _ Depth (inches):		
Water Table Present? Yes No _✓ Depth (inches	· •		
Saturation Present? Yes No _ ✓ Depth (inches): v	Netland Hydrology Present	? Yes No <u> </u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	os previous inspectio	ns) if available	
Describe Necorded Data (Steam gauge, monitoring well, acrial priori	75, previous mapecuo	ns), ii available.	
Remarks: Hydrology not present			
Hydrology flot present			

Sampling	Point:	UP2108/ UP2109/UP211

Topo Otrotium (Diotoine, 30 ft r		Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liriodendron tulipifera	% Cover	Species? ✓	FACU	Number of Dominant Species	
	- 5		FACO	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant	
3	0			Species Across All Strata: 7 (B)
4	0			Percent of Dominant Species	
5	0				/B)
6	0				
7	0			Prevalence Index worksheet:	
8	0			Total % Cover of: Multiply by:	
	5% :	= Total Cov	ver	OBL species $\frac{0}{0}$ $\times 1 = \frac{0}{0}$	
50% of total cover: 3	20% of	total cover	1	FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$	
1. Carpinus caroliniana	10	✓	FAC	FACU species $0 \times 4 = 0$	
2. Cornus florida	10	√	FACU	UPL species 0 x 5 = 0	
3. Liquidambar styraciflua	10		FAC	Column Totals: 110 (A) 395 (B)
4. Quercus nigra	10		FAC	- 36	
5. Ilex opaca	5		FAC	Prevalence Index = B/A = 3.6	
	- 0			Hydrophytic Vegetation Indicators:	
6	- 0			1 - Rapid Test for Hydrophytic Vegetation	
7	- 0			2 - Dominance Test is >50%	
8	4504			☐ 3 - Prevalence Index is ≤3.0 ¹	
		= Total Cov	-	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 23	20% of	total cover	: 9		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	t
1. Homalium racemosum	20	✓	FACU	be present, unless disturbed or problematic.	
2. Hieracium greenii	15		FACU	Definitions of Four Vegetation Strata:	
3. Andropogon virginicus	10		FAC	Tree Meady plants evaluating vines 2 in (7.6 cm)	
4. Bouteloua dactyloides	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless	
5. Trifolium pratense	5		FACU	height.	
6.	0			Sapling/Shrub – Woody plants, excluding vines, les	
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	10
8.	0				
	0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	SS
9	0			or size, and woody plants less than 5.25 it tall.	
10	- 0			Woody vine – All woody vines greater than 3.28 ft in	n
11	- 0			height.	
12					
20		= Total Cov			
50% of total cover: 30	20% of	total cover	: 12		
Woody Vine Stratum (Plot size: 30 ft r)	•				
1	0				
2	0				
3	0				
4	0				
5	0			Hydrophytic	
		= Total Cov	/er	Vegetation	
50% of total cover:	20% of	total cover	:	Present? Yes No✓	
Remarks: (If observed, list morphological adaptations bel		total cover			
Hydrophytic vegetation not present	ow).				
nydrophytic vegetation not present					

SOIL Sampling Point: UP2108/UP2109UP2110

Profile Description: (Describe to the de	pth needed to document the indicator or confirm	n the absence of indicators.)	
Depth <u>Matrix</u>	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks	
0 - 20 10YR 3/3 100		Loamy sand	
-			
— - — — — — — — — — — — — — — — — — — — —			
-			
1 	B. d. and Market Const.	21	
Hydric Soil Indicators: (Applicable to al	I=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Ma Indicators for Problematic Hydri	
l <u> </u>	<u> </u>		c soils :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T,		
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S)	MI DA 450A D\
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside Piedmont Floodplain Soils (F19)	
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils	
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)	S (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U		Red Parent Material (TF2)	
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TI	- 12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)	12)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	other (Explain in Hernance)	
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P	T) ³ Indicators of hydrophytic veg	etation and
Coast Prairie Redox (A16) (MLRA 150		wetland hydrology must be	
Sandy Mucky Mineral (S1) (LRR O, S)		unless disturbed or problen	natic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B))	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	19A)	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLF	RA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)			
Restrictive Layer (if observed):			
Туре:			
Depth (inches):		Hydric Soil Present? Yes	No <u> </u>
Remarks:			
Hydric soil not present			

Project/Site: 1461 Edge Lowman	City/County: Chocta	aw	Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman			Sampling Point: UP2111/UP2112/UP113/UF
Investigator(s):	Section, Township, F		
Landform (hillslope, terrace, etc.): Upland		e, convex, none):	Slone (%):
Subregion (LRR or MLRA): P 135 Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: IzA			
· · · · · · · · · · · · · · · · · · ·		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			resent? YesNo✓
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answer	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	y sampling point	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No✓	Is the Sampl		No✓_
Wetland Hydrology Present? Yes No✓	within a Wet	land? Yes	No
Remarks:	•		
Upland sample points UP2111/ UP2112/ UP2113/ UP2114 Area disturbed due to previous use by railroad			
Area disturbed due to previous use by failload			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1)			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B19)		Drainage Pat	
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	
	neres along Living Roo		Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	ction in Tilled Soils (Ce	6) 🔲 Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	` '	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aqui	` '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
		☐ Sphagnum m	noss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inches	.)·		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches	•	Wetland Hydrology Presen	ıt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectio	ons), if available:	
Remarks:			
Hydrology not present			

Sampling	Point:	UP2111/ UP2112/ UP113

Topo Otrotium (Diotoino, 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species? ✓	FACU	Number of Dominant Species
1. Liriodendron tulipifera	- 3		FACO	That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 7 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/E
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	5% :	= Total Cov	ver	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover: 3	20% of	total cover	: 1	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$
1. Carpinus caroliniana	10	✓	FAC	FACU species 0 x 4 = 0
2. Cornus florida	10	√	FACU	UPL species 0 x 5 = 0
3. Liquidambar styraciflua	10		FAC	Column Totals: 90 (A) 315 (B
4 Quercus nigra	10		FAC	2.5
5. Ilex opaca	5		FAC	Prevalence Index = B/A = 3.5
	- 0			Hydrophytic Vegetation Indicators:
6	- 0			1 - Rapid Test for Hydrophytic Vegetation
7	- 0			2 - Dominance Test is >50%
8	4504			3 - Prevalence Index is ≤3.0¹
		= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 23	20% of	total cover	: <u>9</u>	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Homalium racemosum	20	✓	NI	be present, unless disturbed or problematic.
2. Hieracium greenii	15	✓	FACU	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	10		FAC	Tree Meady plants evaluating vines 2 in /7 6 am)
4. Bouteloua dactyloides	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	5		FACU	height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			
	0			Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants loss than 5.20 it tall.
10	- 0			Woody vine – All woody vines greater than 3.28 ft in
11	- 0			height.
12				
20		= Total Cov		
50% of total cover: 30	20% of	total cover	: 12	
Woody Vine Stratum (Plot size: 30 ft r)	•			
1	0			
2	_ 0			
3	0			
4	0			
5	0			Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No _✓
Remarks: (If observed, list morphological adaptations bel		10141 00101		
Hydrophytic vegetation not present	iow).			
hydrophytic vegetation not present				

SOIL Sampling Point: UP2111/UP2112/UP113

Profile Description: (Describe to the de	pth needed to document the indicator or confirm	n the absence of indicators.)	
Depth <u>Matrix</u>	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks	
0 - 20 10YR 3/3 100		Loamy sand	
-			
— - — — — — — — — — — — — — — — — — — — —			
-			
1 	B. d. and Market Const.	21	
Hydric Soil Indicators: (Applicable to al	I=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Ma Indicators for Problematic Hydri	
l <u> </u>	<u> </u>		c soils :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T,		
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S)	MI DA 450A D)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside Piedmont Floodplain Soils (F19)	
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils	
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)	S (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U		Red Parent Material (TF2)	
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TI	- 12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)	12)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	other (Explain in Hernance)	
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P	T) ³ Indicators of hydrophytic veg	etation and
Coast Prairie Redox (A16) (MLRA 150		wetland hydrology must be	
Sandy Mucky Mineral (S1) (LRR O, S)		unless disturbed or problen	natic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B))	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	19A)	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLF	RA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)			
Restrictive Layer (if observed):			
Туре:			
Depth (inches):		Hydric Soil Present? Yes	No <u> </u>
Remarks:			
Hydric soil not present			

Project/Site: 1461 Lowman_1	City/County: Need	dham/Choctaw	Sampling Date: 2020-03-07
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2115/UP2116/UP2117
Investigator(s)		, Range:	
Landform (hillslope, terrace, etc.): Upland, Flat			Slope (%): 1
Subregion (LRR or MLRA): P Lat:	Eddar Folior (deficate	Long:	Datum: WGS 84
Soil Map Unit Name: OkA		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of you			
Are Vegetation, Soil, or Hydrology significantly			present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? ((If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	յ sampling poir	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Samp		
Wetland Hydrology Present? Yes No _✓	within a We	etland? Yes	No✓
Remarks:	I		
Upland sample for wetlands W2115, W2116, and W2117			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1) Mad Denosite (B4)	•		getated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide (A3)		Moss Trim L	interns (B10)
	neres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	· ·
	ction in Tilled Soils (= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	☐ Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	Test (D5)
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)):	Wetland Hydrology Prese	nt? Yes No_ <u>✓</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspect	tions), if available:	
Remarks: No hydrology present			

20.4			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r	% Cover	Species'	? Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Deminant Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
		Total Co	ver	OBL species 0 x 1 = 0
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)		total cove		FAC species 15 x 3 = 45
	0			FACU species 70 x 4 = 280
1	0			UPL species 0 x 5 = 0
2	0			Column Totals: 90 (A) 335 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.7$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		Total Co	ver	☐ Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Pteridium aquilinum	30	✓	FACU	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	25	✓	FACU	Definitions of Four Vegetation Strata:
3. Schedonorus arundinaceus	15		FAC	Too Manda de de contration visco O in (7.0 cm) on
4. Hieracium triste	10		NI	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	10		FACU	height.
6 Dichanthelium clandestinum	5		FACW	Carling (Charle Meady plants avaluation vines less
7. Polystichum acrostichoides	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0			
	100% =			
50% of total cover: <u>50</u>	20% of	total cove	r: <u>20</u>	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	r:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
No hydrophytic vegetation present	···).			
The Hydrophytic regulation process.				

SOIL Sampling Point: UP2115AUP2116UP2117

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confir	m the absence	of indicate	ors.)	
Depth	Matrix			x Feature	s					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 5/4	100					Loam			
-										
l — -	-									
-										
l — -										
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location:	PL=Pore L	ining, M=Matr	ix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	rwise not	ed.)				matic Hydric	
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S. T.	U) 1 cm M	luck (A9) (I	LRR O)	
ı =	oipedon (A2)		Thin Dark Su					luck (A10)		
	stic (A3)		Loamy Muck							MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye	-		(0)				(LRR P, S, T)
	Layers (A5)		Depleted Ma		(-)				Loamy Soils (
	Bodies (A6) (LRR	P T II)	Redox Dark		6)			RA 153B)	Louiny Cons (1 20)
	icky Mineral (A7) (L		Depleted Da					arent Mater	ial (TF2)	
	esence (A8) (LRR		Redox Depre		, ,				k Surface (TF1	2)
	ick (A9) (LRR P, T)		Marl (F10) (L		-/			Explain in		-/
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		Explain in	rtornarito)	
_	ark Surface (A12)	00 ()	Iron-Mangan				T) ³ Indic	ators of hyd	drophytic vege	tation and
I =	rairie Redox (A16)	(MLRA 150A)							ogy must be p	
	Mucky Mineral (S1)		Delta Ochric			, •,		-	ed or problema	
_	Gleyed Matrix (S4)	(2.1.1.0,0)	Reduced Ve			0A. 150B		oo alotaibe	od or probleme	aro.
	Redox (S5)		Piedmont Flo				•			
	Matrix (S6)		_			•	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,	S. T. U)	- Allomaious E	mgm Loui	y 000 (1 20) (11121	1404, 1000,	, 1002,		
	Layer (if observed	•								
Type:	, , , , , , , , , , , , , , , , , , , ,	,-								
Depth (in	chae):		_				Hydric Soil	Procent?	Yes	No <u> </u>
	cries).		<u> </u>				Hydric Soil	Present?	165	NO <u>v</u>
Remarks: No hydric so	il present									
No flydfic so	ii present									

Project/Site: 1461 Lowman_1	City/County: Needham/Choctaw Sampling Date: 2020-03-08
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2118
Investigator(s)	Section, Township, Range:
Landform (hillslope, terrace, etc.): Upland, Flat	Local relief (concave, convex, none): None Slope (%): 1
Subregion (LRR or MLRA): P Lat:	Long: Datum: WGS 84
Soil Map Unit Name: IZA	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓	
Hydric Soil Present? Yes No ✓	- Is the Sampled Area
Wetland Hydrology Present? Yes No _✓	within a Wetland? Yes No
Remarks:	'
Upland sample for wetland W2118	
LIVEROL COV	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B	
Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	ce (C7) Geomorphic Position (D2)
Iron Deposits (B5) Uther (Explain in	Remarks)
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	·
Water Table Present? Yes No _ Depth (inche: No _ Saturation Present? Yes No _ Depth (inche: No _ Depth (inche: No _ Depth (inche: No _ No _ Depth (inche: No _ Dept	·
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
No hydrology present	
1	

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

50% of total cover: ____

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 15 ft r)

Sampling Point: UP2118 Absolute Dominant Indicator Dominance Test worksheet: **Number of Dominant Species** 0 (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 OBL species FACW species $\frac{5}{}$ x 2 = $\frac{10}{}$ x 3 = 45 FAC species FACU species 70 x4 = 2800 x 5 = 0 UPL species Column Totals: 90 (A) 335 (B) = B/A = 3.7 Prevalence Index

5				Hydrophytic Vegetation Indicators:
3	0			1 - Rapid Test for Hydrophytic Vegetation
⁷	0			2 - Dominance Test is >50%
3	0	_		3 - Prevalence Index is ≤3.0¹
		_= Total Co	over	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20%	of total cove	er:	- 1 Tobernatio Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
Pteridium aquilinum	30	✓	FACU	be present, unless disturbed or problematic.
Bouteloua dactyloides	25	<u> </u>	FACU	Definitions of Four Vegetation Strata:
Schedonorus arundinaceus	15		FAC	
Hieracium triste	10		NI	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Trifolium pratense	10		FACU	height.
Dichanthelium clandestinum	5		FACW	Sapling/Shrub – Woody plants, excluding vines, less
Polystichum acrostichoides	5		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3	0			Hat Allbada and Cara and Allacta and Cara
0.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11	0			Woody vine – All woody vines greater than 3.28 ft in height.
	0			nogn.
12	100%	_= Total Co		
50% of total cover: 50		of total cove		
Noody Vine Stratum (Plot size: 30 ft r)	20%	OI total cove	a. <u></u>	
	0			
l	0			
2	- 0			
3	- 0			
ł	- 0	_		
5				Hydrophytic
		= Total Co		Vegetation Present? Yes No✓
50% of total cover:	20%	of total cove	er:	170301111
Remarks: (If observed, list morphological adaptations be	ow).			•
lo hydrophytic vegetation present				
S Army Corpo of Engineers				Atlantia and Culf Coastal Plain Panian Marries C.C.
S Army Corps of Engineers				Atlantic and Gulf Coastal Plain Region – Version 2.0

% Cover Species? Status

__= Total Cover

__ 20% of total cover: ___

0

0

0

0

0

0

0

SOIL Sampling Point: UP2118

Profile Desc	iption: (Describe	e to the depth	needed to docu	ment the ir	ndicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix			ox Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/4	100					Loam			
l — -										
_										_
¹Type: C=Ce	ncentration, D=De	nlotion PM-P	oduced Matrix M	S-Maakad	Sand Cr	oine	² Location:	DI = Doro I	ining, M=Matri	
	ndicators: (Appli					allis.			matic Hydric	
1		cable to all Li	_			DD C T I		luck (A9) (L	-	cons .
Histosol (pedon (A2)		Polyvalue Bo					luck (A9) (I		
Black His			Loamy Much							MLRA 150A,B)
	Sulfide (A4)		Loamy Gley			(0)				(LRR P, S, T)
	Layers (A5)		Depleted Ma		_/				Loamy Soils (
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			RA 153B)		0,
	cky Mineral (A7) (L		Depleted Da				_ ,	rent Mater	ial (TF2)	
	sence (A8) (LRR		Redox Depr				☐ Very S	hallow Dark	k Surface (TF1	2)
	k (A9) (LRR P, T)		Marl (F10) (I	LRR U)			Other (Explain in l	Remarks)	
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) ((MLRA 1	51)				
	rk Surface (A12)		Iron-Mangar						drophytic vege	
	airie Redox (A16)					', U)		-	ogy must be p	
_	ucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbe	ed or problema	itic.
	eyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Fl			•		4.505)		
	Matrix (S6)	O T III	Anomalous I	Bright Loan	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	face (S7) (LRR P, ayer (if observed									
l _	ayer (ii observed).								
Type:			_						W	
	hes):		_				Hydric Soil	Present?	Yes	No <u> </u>
Remarks: No hydric soil	present									
No flydfic son	present									
I										

Project/Site: 1461 Lowman_1	City/County: Need	lham/Choctaw	Sampling Date: 2020-03-08
Applicant/Owner: NextEra			Sampling Point: UP2119/UP2120/UP1109
Investigator(s):	Section, Township,		
Landform (hillslope, terrace, etc.): Upland, Flat		re, convex, none): None	Slope (%): 1
Subregion (LRR or MLRA): P Lat:		Long:	Datum: WGS 84
Soil Map Unit Name: MdA			
		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			present? YesNo
Are Vegetation, Soil, or Hydrology naturally pro-	oblematic? (I	If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ı sampling poir	nt locations, transects	, important features, etc.
Lhydrophytic Vegetation Present? Veg No V			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Samp		,
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a We	etland? Yes	No✓
Remarks:			
Upland sample for wetland W2119 and W2120			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) Output (A2)		Drainage Pa	
Saturation (A3) Hydrogen Sulfide (Water Marks (B1) Oxidized Rhizosph	odor (C1) ieres along Living Ro	Moss Trim L	Water Table (C2)
Sediment Deposits (B2) Presence of Reduce		Crayfish Bur	· ·
	tion in Tilled Soils (C		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		_	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	(emarks)	Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	Test (D5)
Water-Stained Leaves (B9)	<u>_</u>	Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _ ✓ Depth (inches	·		
Water Table Present? Yes No _ ✓ Depth (inches		Wetter dilledestere Breeze	-10 Van Na d
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)):	Wetland Hydrology Preser	nt? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspecti	ions), if available:	
Remarks:			
No hydrology present			
1			

Sampling	Point:	UP2119/UP2120/UP1109

- 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2	_ 0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 0 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
<u> </u>		Total Co	/er	OBL species 0 x 1 = 0
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
15 A r	20 /6 01	total cover		FAC species 15 x 3 = 45
	0			FACU species
1	- 0			UPL species 0 x 5 = 0
2	- 0			Column Totals: 90 (A) 335 (B)
3	- 0			
4				Prevalence Index = $B/A = 3.7$
5	0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	:	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	- Trobonato Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5)				Indicators of hydric cail and wattend hydrology much
1. Pteridium aquilinum	30	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Bouteloua dactyloides	25	_/	FACU	Definitions of Four Vegetation Strata:
3. Schedonorus arundinaceus	15		FAC	
4. Hieracium triste	10		NI	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Trifolium pratense	10		FACU	more in diameter at breast height (DBH), regardless of height.
6. Dichanthelium clandestinum	5		FACW	
7. Polystichum acrostichoides	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0		17100	than 5 m. 5511 and greater than 5.25 k (1 m) tan.
8	- 0			Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10	_ 0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	100% =	Total Co	ver	
50% of total cover: 50	20% of	total cover	<u>:</u> 20	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
4.	0			
5.	0			Lhadvanhadia
·		= Total Co	/er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
		total cover		
Remarks: (If observed, list morphological adaptations bel No hydrophytic vegetation present	ow).			
No hydrophytic vegetation present				

SOIL Sampling Point: UP2119/UP2120/UP1109

Profile Description: (Describe to the	depth needed to document the indic	ator or confirm th	ne absence of indic	cators.)
Depth <u>Matrix</u>	Redox Features			
(inches) Color (moist) %		/pe ¹ Loc ²	Texture	Remarks
0 - 20 10YR 4/4 100	<u> </u>		.oam	
-				
— - — — —				
-				
<u> </u>			21	
¹ Type: C=Concentration, D=Depletion, Hydric Soil Indicators: (Applicable t		nd Grains.		re Lining, M=Matrix. blematic Hydric Soils³:
l <u> </u>		30) // DD 0 T II)		•
Histosol (A1)	Polyvalue Below Surface (1 cm Muck (As	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LF		2 cm Muck (A	
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	(LRR O)		c (F18) (outside MLRA 150A,B) odplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)			ight Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)			(MLRA 153E	
5 cm Mucky Mineral (A7) (LRR P,	= , ,)	Red Parent Ma	•
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	,		Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)		Other (Explain	
Depleted Below Dark Surface (A11	_	RA 151)		,
Thick Dark Surface (A12)	Iron-Manganese Masses (³ Indicators of	hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA				drology must be present,
Sandy Mucky Mineral (S1) (LRR C		151)	unless dist	urbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLI	RA 150A, 150B)		
Sandy Redox (S5)	Piedmont Floodplain Soils	(F19) (MLRA 149A	()	
Stripped Matrix (S6)	Anomalous Bright Loamy S	Soils (F20) (MLRA	149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)			
Restrictive Layer (if observed):				
Туре:				
Depth (inches):			Hydric Soil Presen	it? Yes No_ <u>√</u>
Remarks:				
No hydric soil present				

Project/Site: 1461 Edge Lowman	City/County; Choctaw		Sampling Date: 2020-03-08
Applicant/Owner: Edge Lowman			Sampling Point: UP2121/UP2123/UP2124/UP2125
Investigator(s):	Section, Township, Range:	Needham	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conve	ex, none): Concave	Slope (%): 3
Subregion (LRR or MLRA): P 135 Lat:	Long:		Datum: WGS 84
Soil Map Unit Name: OKA		NWI classifica	tion: N/A
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation _ ✓ _, Soil _ ✓ _, or Hydrology _ ✓ _ signif	icantly disturbed? Are "Norr	mal Circumstances" p	resent? YesNo✓
Are Vegetation, Soil, or Hydrology natur		d, explain any answe	
SUMMARY OF FINDINGS – Attach site map sho			
Hydrophytic Vegetation Present? Yes ✓ No	✓ Is the Sampled Are within a Wetland?		No
Upland sample point for UP2121/UP2123/UP2124/UP2125			
Area disturbed from previous railroad use			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Faul	na (B13)	Sparsely Veg	getated Concave Surface (B8)
	ts (B15) (LRR U)	Drainage Pat	
	ulfide Odor (C1)	Moss Trim Li	, ,
	izospheres along Living Roots (C3	. —	Water Table (C2)
	Reduced Iron (C4) Reduction in Tilled Soils (C6)	Crayfish Burn	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Thin Muck S		_	Position (D2)
	nin in Remarks)	Shallow Aqui	, ,
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No _ ✓ Depth (
Water Table Present? Yes No ✓ Depth (,		10 1/2
Saturation Present? Yes No ✓ Depth ((includes capillary fringe)	nches): Wetland	d Hydrology Presen	t? Yes No <u>✓</u>
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if a	available:	
Remarks:			
Hydrology not present			
i			

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species 2
1. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			Percent of Deminent Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)
6	0			,
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	10% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 5	20% of	total cover:	2	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 0 x 3 = 0
1. Pinus taeda	10	✓	FAC	FACU species <u>0</u> x 4 = <u>0</u>
	0			UPL species 0 x 5 = 0
2	0			Column Totals: <u>85</u> (A) <u>305</u> (B)
3	0			
4	0			Prevalence Index = B/A = 3.6
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0¹
_		Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover:	2	
Herb Stratum (Plot size: 30 ftr)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	40	✓	FACU	be present, unless disturbed or problematic.
2. Hieracium triste	15		NI	Definitions of Four Vegetation Strata:
3. Imperata cylindrica	15		UPL	Tree Meady plants evaluding vince 3 in (7.6 cm) or
4. Dichanthelium scabriusculum	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
40		Total Cov		
50% of total cover: <u>40</u>	20% of	total cover:	10	
Woody Vine Stratum (Plot size: 30 ft r)	•			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes _ ✓ No
Remarks: (If observed, list morphological adaptations below	ow).			1
Hydrophytic vegetation present	,-			

SOIL Sampling Point: UP2121/UP2123UP2124

Profile Description: (Describe t	o the depth n	eeded to docur	nent the in	dicator o	or confirm	n the absence of i	indicators.)	
Depth <u>Matrix</u>			x Features					
(inches) Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 20 10YR 5/2	100					Loamy sand		
-								
— - — — — — — — — — — — — — — — — — — — —								
-								
17 0 0				0 10		21	- December 1991 - Market	
¹ Type: C=Concentration, D=Deple Hydric Soil Indicators: (Application)					ins.		=Pore Lining, M=Matrix. Problematic Hydric Soil	c ³ .
l <u> </u>	ible to all LR	_					•	S .
Histosol (A1)	ļ	Polyvalue Be				. —	k (A9) (LRR O)	
Histic Epipedon (A2)	- 1	Thin Dark Su Loamy Muck					k (A10) (LRR S)	A 450A D)
Black Histic (A3) Hydrogen Sulfide (A4)	- 1	Loamy Muck	•	, .	0)		Vertic (F18) (outside MLR Floodplain Soils (F19) (LF	
Stratified Layers (A5)	1	Depleted Ma		2)			s Bright Loamy Soils (F20	
Organic Bodies (A6) (LRR P,	T III 1	Redox Dark		8)		(MLRA		,
5 cm Mucky Mineral (A7) (LR		Depleted Da				_ ,	nt Material (TF2)	
Muck Presence (A8) (LRR U)		Redox Depre					low Dark Surface (TF12)	
1 cm Muck (A9) (LRR P, T)	†	Marl (F10) (L		,			plain in Remarks)	
Depleted Below Dark Surface	(A11) Î	Depleted Oc	•	MLRA 15	(1)		,	
Thick Dark Surface (A12)	Ì	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetatio	n and
Coast Prairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ice (F13) (L	RR P, T,	U)	wetland	d hydrology must be prese	nt,
Sandy Mucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)		unless	disturbed or problematic.	
Sandy Gleyed Matrix (S4)	Ţ	Reduced Ver	rtic (F18) (N	/ILRA 150	OA, 150B)			
Sandy Redox (S5)	- 1	Piedmont Flo	odplain So	ils (F19)	(MLRA 14	I9A)		
Stripped Matrix (S6)	1	Anomalous E	Bright Loam	y Soils (F	20) (MLR	A 149A, 153C, 15	3D)	
Dark Surface (S7) (LRR P, S,	T, U)							
Restrictive Layer (if observed):								
Type:		-						
Depth (inches):		_				Hydric Soil Pre	esent? Yes N	o <u> </u>
Remarks:						•		
Hydric soil not present								

Project/Site: 1461 Edge Lowman	City/County: Ch	octaw	Sampling Date: 2020-03-08
Applicant/Owner: Edge Lowman	, , , ,		Sampling Point: UP2122
Investigator(s):	Section, Townshir	o, Range: Needham	
Landform (hillslope, terrace, etc.): Depression		ave, convex, none): Concave	Slope (%): 3
Subregion (LRR or MLRA): P 135 Lat:	20001101101101101	Long:	Datum: WGS 84
Soil Map Unit Name: IZA		NWI classific	NI/A
•	2 Vas V		ation
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significantl			present? YesNo✓
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling po	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No✓ No✓ Remarks:	Is the Sam within a W	npled Area /etland? Yes	No <u></u>
Upland sample point UP2122			
Area disturbed from previous railroad use			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B			getated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide		Drainage Pa	
	heres along Living I	Moss Trim L	Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bur	· ·
	ction in Tilled Soils	= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Under (Explain in	Remarks)	Shallow Aqu	, ,
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	` '
Water-Stained Leaves (B9)		☐ Sphagnum r	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _ Depth (inchest)	٥)٠		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No Depth (inches		Wetland Hydrology Prese	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

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

Sampling Point: UP2122

Topo Otrotium (Diotoine, 30 ft r		Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Pinus taeda		Species?	FAC	Number of Dominant Species	
	_ 10		FAC	That Are OBL, FACW, or FAC: 2 (A	1)
2	_ 0			Total Number of Dominant	
3	0			Species Across All Strata: 3 (E	3)
4	0			Percent of Deminant Species	
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A	A/B)
6	0			·	
7	0			Prevalence Index worksheet:	
8.	0			Total % Cover of: Multiply by:	
·	10%	= Total Cov	er	OBL species 10 x 1 = 10	
50% of total cover: _5	20% of		_	FACW species 0 x 2 = 0	
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover		FAC species 20 x 3 = 60	
1 Pinus taeda	10	✓	FAC	FACU species 40 x 4 = 160	
"-	0			UPL species 15 x 5 = 75	
2	- 0			Column Totals: 85 (A) 305	(B)
3	- 0				. ,
4	- 0			Prevalence Index = $B/A = 3.6$	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	0			3 - Prevalence Index is ≤3.0¹	
	10% :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 5	20% of	total cover	2		
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology mus	et
1. Bouteloua dactyloides	40	✓	FACU	be present, unless disturbed or problematic.	
2. Hieracium triste	15		NI	Definitions of Four Vegetation Strata:	
3. Imperata cylindrica	15		UPL		
Dichanthelium scabriusculum	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless	
5.	0			height.	, 01
6.	0			Continue (Charaka Manda and and and and and and and and and	
	0			Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.	55
7	0				
8	0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	288
9	- 0			of size, and woody plants less than 5.20 it tall.	
10	- 0			Woody vine – All woody vines greater than 3.28 ft	in
11	- 0			height.	
12					
40		= Total Cov			
50% of total cover: 40	20% of	total cover	: 10		
Woody Vine Stratum (Plot size: 30 ft r)	•				
1	0				
2	0				
3	0				
4	0				
5	0			Hydrophytic	
		= Total Cov	er	Vegetation	
50% of total cover:	20% of	total cover	:	Present? Yes <u>√</u> No	
Remarks: (If observed, list morphological adaptations bel		10101 00101			
Hydrophytic vegetation not present	iow).				
rrydrophylic vegetation not present					

SOIL Sampling Point: UP2122

Profile Descrip	tion: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirn	n the absence	of indicate	ors.)	
Depth	Matrix			ox Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0 - 20 1	0YR 3/2	100					Loamy sand			
_										_
¹Type: C=Cope	entration D=De	pletion PM=P	Reduced Matrix, M	S=Macked	Sand Gr	aine	² l ocation:	DI = Doro I	ining, M=Matr	iv.
			RRs, unless othe			airis.			matic Hydric	
l <u> </u>		cable to all E	_			DD C T I		uck (A9) (I	-	
Histosol (A1 Histic Epipe	•		Polyvalue B					uck (A9) (I	•	
Black Histic	, ,		Loamy Much							MLRA 150A,B)
Hydrogen S			Loamy Gley	•	, ,	(0)				(LRR P, S, T)
Stratified La			Depleted Ma		_/				Loamy Soils (
	dies (A6) (LRR I	P. T. U)	Redox Dark		6)			A 153B)	Louiny Conc (0,
	Mineral (A7) (L		Depleted Da					rent Mater	ial (TF2)	
	nce (A8) (LRR		Redox Depr						k Surface (TF1	2)
	(A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Explain in l	Remarks)	
Depleted Be	elow Dark Surfa	ce (A11)	Depleted Oc	hric (F11) (MLRA 1	51)				
	Surface (A12)		Iron-Mangar						drophytic vege	
	e Redox (A16)					, U)		-	ogy must be p	
_	ky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbe	ed or problema	itic.
	ed Matrix (S4)		Reduced Ve							
Sandy Red			Piedmont FI					4.505		
Stripped Ma		O T 11)	Anomalous	Bright Loan	ny Soils (F20) (MLR	RA 149A, 153C,	153D)		
	e (S7) (LRR P,									
Restrictive Lay	er (it observed):								
Type:			_				1			/
	s):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:	t									
Hydric soil not p	resent									

Project/Site: 1461 Edge Lowman	City/County: Choo	otaw	Sampling Date: 2020-03-09			
Applicant/Owner: Edge Lowman			Sampling Point: UP2126/ UP2127			
Investigator(s):	Section, Township,					
Landform (hillslope, terrace, etc.): Upland, Flat		ve, convex, none): None	Slope (%):			
D 405			Datum: WGS 84			
Soil Map Unit Name: IZA		NWI classifica				
Are climatic / hydrologic conditions on the site typical for this time of year						
Are Vegetation, Soil, or Hydrology significantly	y disturbed?	Are "Normal Circumstances" ړ	present? YesNo			
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? ((If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing	g sampling poi	nt locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes No _✓ Wetland Hydrology Present? Yes No _✓	ls the Samp	•	No✓			
Remarks:						
Upland sample point UP2126/ UP2127						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	1	Surface Soil	Cracks (B6)			
Surface Water (A1) Aquatic Fauna (B1	13)	Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2) Harl Deposits (B1)		Drainage Pa				
Saturation (A3)	, ,	Moss Trim L	, ,			
	heres along Living R		Water Table (C2)			
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Reduc	ction in Tilled Soils (C6) Crayfish Bur	rows (C8) isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Thin Muck Surface		_				
Iron Deposits (B5)		☐ Geomorphic Position (D2)☐ Shallow Aquitard (D3)				
Inundation Vis ble on Aerial Imagery (B7)	,	FAC-Neutral				
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No ✓ Depth (inches	I					
Water Table Present? Yes No Depth (inches						
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	s):	Wetland Hydrology Preser	nt? Yes No_ <u>√</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspect	tions), if available:				
Remarks: Hydrology not present						

Sampling	Point:	UP2126/ UP2127

T 0: 1 (D) 1 30 ft r		Dominant		Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liquidambar styraciflua	<u>% Cover</u>	Species? ✓	FAC	Number of Dominant Species			
2. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: _5 (A)			
	10		FAC	Total Number of Dominant 7			
3. Quercus nigra	5		FACU	Species Across All Strata: (B)			
4. Juniperus virginiana			FACU	Percent of Dominant Species			
5	0			That Are OBL, FACW, or FAC: 71 (A/B)			
6	0			Prevalence Index worksheet:			
7	0						
8	0			Total % Cover of: Multiply by:			
	35% =	= Total Cov	er	OBL species 0 x 1 = 0			
50% of total cover: 18	20% of	total cover	7	FACW species 0 x 2 = 0			
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$			
1. Ilex vomitoria	15	✓	FAC	FACU species 0 x 4 = 0			
2. Liquidambar styraciflua	5	✓	FAC	UPL species 0 x 5 = 0			
3.	0			Column Totals: 100 (A) 325 (B)			
4	0			B			
5	0			Prevalence Index = B/A = 3.3			
	0			Hydrophytic Vegetation Indicators:			
6	0			1 - Rapid Test for Hydrophytic Vegetation			
7	0			2 - Dominance Test is >50%			
8				3 - Prevalence Index is ≤3.01			
10		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover: <u>10</u>	20% of	total cover	: 4				
Herb Stratum (Plot size: 30 ft r)	45	,	FACIL	¹ Indicators of hydric soil and wetland hydrology must			
1. Bouteloua dactyloides	15		FACU	be present, unless disturbed or problematic.			
2. Hieracium greenii	10		FACU	Definitions of Four Vegetation Strata:			
3. Allium cernuum	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4. Arundinaria tecta	5		FACW	more in diameter at breast height (DBH), regardless of			
5. Asplenium platyneuron	5		FACU	height.			
6. Juncus effusus	5		OBL	Sapling/Shrub – Woody plants, excluding vines, less			
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8.	0			Herb – All herbaceous (non-woody) plants, regardless			
9.	0			of size, and woody plants less than 3.28 ft tall.			
10	0						
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.			
12.	0			neight.			
12.	45% :	Total Cov					
50% of total cover: 23		total cover	_				
	20% 01	total cover					
Woody Vine Stratum (Plot size: 30 ft r)	0						
1	0						
2.	0						
3	- 0						
4	0						
5				Hydrophytic			
		Total Cov	er	Vegetation Present? Yes ✓ No			
50% of total cover:	20% of	total cover	:	Present? Yes <u></u> No			
Remarks: (If observed, list morphological adaptations below	ow).			·			
Hydrophytic vegetation present							

SOIL Sampling Point: UP2126/UP2127

Profile Desc	ription: (Describ	e to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of in	dicators.)
Depth	Matrix			x Features	S1	. 2		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks
0 - 10	10YR 3/2						Sandy loam	
-								
<u> </u>								
			Reduced Matrix, MS			ains.		Pore Lining, M=Matrix.
1		cable to all L	RRs, unless other			DD C T I		roblematic Hydric Soils ³ :
Histosol Histosol	oipedon (A2)		Polyvalue Be Thin Dark Su					(A10) (LRR S)
	stic (A3)		Loamy Mucky					ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			,		oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat					Bright Loamy Soils (F20)
_	Bodies (A6) (LRR		Redox Dark S				П_(MLRA 15	
	icky Mineral (A7) (I		Depleted Dar					Material (TF2) w Dark Surface (TF12)
	esence (A8) (LRR ick (A9) (LRR P, T		Redox Depre	•	5)			w Dark Surface (TFT2) ain in Remarks)
	d Below Dark Surfa		Depleted Och		(MLRA 1	51)	Cities (Expire	an in Komarko,
	ark Surface (A12)		Iron-Mangane				T) ³ Indicators	of hydrophytic vegetation and
	rairie Redox (A16)					', U)		hydrology must be present,
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D)		sturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver					
	Matrix (S6)					•	RA 149A, 153C, 153I	D)
	rface (S7) (LRR P,	S, T, U)	_			, ,		,
Restrictive I	Layer (if observed	l):						
Type:			_					
Depth (inc	ches):		_				Hydric Soil Pres	ent? Yes No_✓
Remarks:	-1							
Hydric soil no Gravel fill res	ot present stricting be able to o	dia beyond 10	inches					
0.000.1111.100	anoung be able to	ang boyona ro						

Project/Site: 1461 Edge Lowman	City/Cou	_{unty:} Choctaw		Sampling Date: 2020-03-09
Applicant/Owner: Edge Lowman			_{tate:} Alabama	Sampling Point: UP2128/ UP2129
Investigator(s):	Section	Township, Range: Lar		
Landform (hillslope, terrace, etc.): Upland, Flat		ief (concave, convex, n		Slope (%): 0
D 425	Local relie		one).	Datum: WGS 84
		_Long:		NUA
Soil Map Unit Name: MdA			NWI classificat	
Are climatic / hydrologic conditions on the site typical for this tin	-			
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed	d? Are "Normal (Circumstances" pr	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology natu	rally problematic?	? (If needed, ex	plain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing sampli	ing point location	ns, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No _				
Hydric Soil Present? Yes No	√	the Sampled Area		
Wetland Hydrology Present? Yes No _	✓ wi	ithin a Wetland?	Yes	No <u> </u>
Remarks:				
Upland sample point UP2128/ UP2129				
HYDROLOGY				
Wetland Hydrology Indicators:		2	_	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that			Surface Soil (
Surface Water (A1)				etated Concave Surface (B8)
	its (B15) (LRR U)		Drainage Patt	
	Sulfide Odor (C1)	g Living Roots (C3)	Moss Trim Lir	Vater Table (C2)
	f Reduced Iron (C		Crayfish Burro	
	Reduction in Tille	· ·	_	sible on Aerial Imagery (C9)
-	Surface (C7)	(00)	Geomorphic F	
	ain in Remarks)	Ī	Shallow Aquit	' '
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No Depth				
Water Table Present? Yes No _✓ Depth				
Saturation Present? Yes No _✓ Depth (includes capillary fringe)	(inches):	Wetland Hy	drology Present	t? Yes No <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aeri	al photos, previou	us inspections), if avail	able:	
Remarks: Hydrology not present				

Sampling Point	UP2128/	UP2129
----------------	---------	--------

T 01 1 (D1 1 : 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liquidambar styraciflua	<u>% Cover</u> 10	Species? ✓	FAC	Number of Dominant Species That Are OBL_FACW or FAC: 5 (A)
2. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: 5 (A)
3. Quercus nigra	10		FAC	Total Number of Dominant
Juniperus virginiana	5		FACU	Species Across All Strata: 7 (B)
	- 0		1700	Percent of Dominant Species
5	- 0			That Are OBL, FACW, or FAC: 71 (A/B)
6	- 0			Prevalence Index worksheet:
7	- 0			Total % Cover of: Multiply by:
8				OBL species 5 x 1 = 5
19		= Total Cov	_	FACW species 5 x 2 = 10
50% of total cover: 18	20% of	total cover	:	FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size: 30 ft r)	15	,	FAC	FACU species 40 x 4 = 160
1. Ilex vomitoria	- <u>15</u> 5		FAC	UPL species 0 x 5 = 0
2. Liquidambar styraciflua		<u> </u>	FAC	Column Totals: 100 (A) 325 (B)
3	_ 0			Column Totals (A) (B)
4	_ 0			Prevalence Index = $B/A = 3.3$
5	_ 0			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	: 4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15		FACU	be present, unless disturbed or problematic.
2. Hieracium greenii	10		FACU	Definitions of Four Vegetation Strata:
3. Allium cernuum	_ <u>5</u>		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Arundinaria tecta	5		FACW	more in diameter at breast height (DBH), regardless of
5. Asplenium platyneuron	5		FACU	height.
6. Juncus effusus	5		OBL	Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	45% :	= Total Cov	er	
50% of total cover: 23	20% of	total cover	9	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
4.	0			
5.	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:				Present? Yes No
		total cover		
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation present	iow).			
.,				

SOIL Sampling Point: UP2128/UP2129

Profile Desc	cription: (Describe	e to the depth	needed to docum	ent the i	indicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix Color (moist)	%	Redox Color (moist)	K Feature	S Type ¹	Loc ²	Texture		Remarks	
(inches) 0 - 3	10YR 3/2	_ <u>%</u>	Color (moist)	<u>%</u>	Type	Loc	Sandy loam		Remarks	
3 - 10	10YR 3/4	100					Clay loam			
_										
_										
-										_
¹Type: C=Ce	oncentration, D=De	pletion. RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location:	PL=Pore L	Lining, M=Matrix	<u>.</u>
Histosol Histic Ep Black Hi		Casio to dii L	RRs, unless other Polyvalue Bel Thin Dark Sui Loamy Mucky Loamy Gleye	low Surfa rface (S9) / Mineral	ce (S8) (L) (LRR S, (F1) (LRF	T, U)	J) 1 cm M 2 cm M Reduce	uck (A9) (I uck (A10) d Vertic (F		ILRA 150A,B)
Stratified Organic	d Layers (A5) Bodies (A6) (LRR		Depleted Mat	rix (F3)			Anomal (MLR	lous Bright A 153B)	t Loamy Soils (F	
Muck Pr	ucky Mineral (A7) (I resence (A8) (LRR uck (A9) (LRR P, T)	U)	Depleted Dari Redox Depre Marl (F10) (Li	ssions (F			Very St		rial (TF2) rk Surface (TF12 Remarks)	2)
	d Below Dark Surfa		Depleted Och		(MLRA 1	51)	other (_xpidiii iii	rtomarko)	
_	ark Surface (A12)		Iron-Mangane						drophytic veget	
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa			, U)		-	logy must be pre ed or problemate	
_	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ver			0A, 150B)		รร นเรเนาม	ed of problema	ic.
	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	A 149A, 153C,	153D)		
	rface (S7) (LRR P,									
	Layer (if observed):								
Type:	ches):		_				Hudria Sail I	Drocont?	Yes	No. /
Remarks:	cries).		<u> </u>				Hydric Soil i	riesenti	168	NO <u>v</u>
Hydric soil no										
Gravel fill res	stricted ability to dig	beyond 10 in	ches							

Project/Site: 1461 Edge Lowman	City/County:_	Choctaw		Sampling Date: 2020-03-09
Applicant/Owner: Edge Lowman			e: Alabama	Sampling Point: UP2130/UP2131/UP2132
Investigator(s)	Section Town	ship, Range: Land		
Landform (hillslope, terrace, etc.): Upland, Flat		oncave, convex, non		Slope (%): 0
D 405	_ Local relief (co		e). Hone	Datum: WGS 84
		Long:		NI/A
Soil Map Unit Name: IZA			NWI classificat	ion:
Are climatic / hydrologic conditions on the site typical for this time of				
Are Vegetation, Soil, or Hydrology significan	tly disturbed?	Are "Normal Circ	cumstances" pr	esent? YesNo
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, expla	ain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showi	ng sampling	point locations	, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No✓				
Hydric Soil Present? Yes No _ ✓	- Is the	Sampled Area		
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within	a Wetland?	Yes	No✓
Remarks:				
Upland sample point UP2130/ UP2131/ UP2132				
HYDROLOGY				
Wetland Hydrology Indicators:		Sec		ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl		H	Surface Soil C	
Surface Water (A1) Aquatic Fauna (I		H		etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide		H	Drainage Patt	
	pheres along Livi	ng Roots (C3)	Moss Trim Lin	Vater Table (C2)
Sediment Deposits (B2) Presence of Rec	-	ng roots (CO)	Crayfish Burro	
	uction in Tilled S	oils (C6)	•	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa		· · · · · · · · · · · · · · · · · · ·	Geomorphic F	
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)		Shallow Aquit	ard (D3)
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral 7	Test (D5)
☐ Water-Stained Leaves (B9)		<u> </u>	Sphagnum mo	oss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No ✓ Depth (inch		I		
Water Table Present? Yes No ✓ Depth (inch		I		,
Saturation Present? Yes No ✓ Depth (inch (includes capillary fringe)	es):	Wetland Hydr	ology Present	? Yes No <u></u>
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous ins	spections), if availab	le:	
Remarks: Hydrology not present				

7 0 4 (D. 4) 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>)	% Cover 0	Species?	Status	Number of Dominant Species
1	- 0			That Are OBL, FACW, or FAC: (A)
2	- 0			Total Number of Dominant
3	- 0			Species Across All Strata: (B)
4	- 0			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6	_ 0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	0			OBL species 0 x 1 = 0
		Total Cov	er	FACW species 0 x 2 = 0
50% of total cover:	20% of	total cover	:	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACTURE PROCES 0 $x 3 = 0$ $x 4 = 0$
1. Morella cerifera	5	✓	FAC	1 ACC species X +
2	0			UPL species $0 \times 5 = 0$
3	0			Column Totals: <u>55</u> (A) <u>200</u> (B)
4	0			Prevalence Index = B/A = 3.6
5	0			Hydrophytic Vegetation Indicators:
6.	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8.	0			1 言
v	5% =	Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover: 3	20% of			Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30ft r)	20 % 01	total cover	· <u> </u>	
1. Bouteloua dactyloides	15	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon gerardii	10		FAC	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	10		FACU	Definitions of Four Vegetation Strata.
4. Hieracium greenii	10		FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Morella cerifera	5		FAC	more in diameter at breast height (DBH), regardless of height.
	- 0		FAC	negn.
6	- 0			Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	_ 0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	50% =	= Total Cov	er	
50% of total cover: 25	20% of	total cover	10	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
4	0			
5.	0			Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No _✓
Remarks: (If observed, list morphological adaptations bel				
Hydrophytic vegetation not present	ow).			
Area recently logged with lots of exposed bare ground				
nour recently regget man lette or expected bailty ground				

SOIL Sampling Point: UP2130/UP2131/UP213

Profile Description: (Describe to the dept	h needed to document the indicator o	confirm the absence	of indicators.)
Depth <u>Matrix</u>	Redox Features		
(inches) Color (moist) %	Color (moist)	oc ² Texture	Remarks
0 - 20 10YR 6/3 100		Sand	
-			
1Type: C=Concentration D=Depletion BM=	Dadwood Matrix MS-Masked Sand Crai	2l costion	DI - Doro Lining M-Matrix
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all			PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
l <u> </u>			uck (A9) (LRR O)
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LR Thin Dark Surface (S9) (LRR S, T		uck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR 0		ed Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		ont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)		lous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)		A 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Pa	rent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)		nallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151		
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LI		ators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A			and hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)		ss disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150)		
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (I Anomalous Bright Loamy Soils (F2		1520)
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Anomalous Bright Loamy Soils (F2	(WILKA 149A, 153C,	1930)
Restrictive Layer (if observed):		<u> </u>	
_			
Type:		Uhadaia Cail I	Dunnant 2 Van Na d
Depth (inches):		Hydric Soil	Present? Yes No <u>√</u>
Remarks: Hydric soil not present			
Tryune son not present			

Project/Site: 1461 Edge Lowman	City/County: Ch	octaw	Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman			Sampling Point: UP2133/UP2134/UP2135UP
Investigator(s):	Section Townshi	p, Range: Needham	
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): none	Slope (%):0
D 405	Local relief (conca		Slope (%)
		Long:	N1/A
Soil Map Unit Name: OKA		NWI classifi	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "Normal Circumstances	" present? YesNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	յ sampling po	int locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes✓ No			
Hydric Soil Present? Yes No ✓		npled Area	
Wetland Hydrology Present? Yes No _✓	within a W	vetland? Yes	No✓
Remarks:			
Upland sample point UP2133/ UP2134/UP2135/ UP2136			
LIVERGLOCK			
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			oil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B*) Mark Deposits (B1)			regetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide			Patterns (B10) Lines (B16)
	neres along Living l		n Water Table (C2)
Sediment Deposits (B2) Presence of Redu			urrows (C8)
	ction in Tilled Soils	= '	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorph	ic Position (D2)
Iron Deposits (B5) Other (Explain in F	Remarks)	Shallow Ad	quitard (D3)
Inundation Vis ble on Aerial Imagery (B7)			al Test (D5)
☐ Water-Stained Leaves (B9)		<u></u> Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No / _ Depth (inches			
Water Table Present? Yes No ✓ Depth (inches		W. 41	
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)	.):	Wetland Hydrology Pres	ent? Yes No <u></u> ✓
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspec	ctions), if available:	
Remarks: Hydrology not present			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Carpinus caroliniana	10	✓	FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant
3. Ostrya virginiana	10	✓	FACU	Species Across All Strata: 10 (B)
4. Pinus glabra	10	✓	FACW	Bossest of Dominant Species
5. Pinus taeda	10	✓	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	50%	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 25	20% of	total cover	10	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)		total cover		FAC species <u>0</u> x 3 = <u>0</u>
1. Carpinus caroliniana	5	/	FAC	FACU species <u>0</u> x 4 = <u>0</u>
2. Juniperus virginiana	5		FACU	UPL species 0 x 5 = 0
3. Liquidambar styraciflua	5		FAC	Column Totals: 80 (A) 260 (B)
	0		1710	
4	0			Prevalence Index = $B/A = 3.3$
5				Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	15% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 8	20% of	total cover:	3	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	10	✓	FACU	be present, unless disturbed or problematic.
2. Asplenium platyneuron	5	√	FACU	Definitions of Four Vegetation Strata:
3.	0			
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0			height.
	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			and o m. Berrand greater than o.20 it (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
		Total Cov		
50% of total cover: 8	20% of	total cover	3	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5.	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:				Present? Yes ✓ No
		total cover		
Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation present	ow).			
rrydropriyae vegetaaon piesent				

SOIL Sampling Point: UP2133AUP2134UP21359

Profile Desc	ription: (Describe	e to the depth	needed to docu	ument the	indicator	or confire	n the absence o	of indicate	ors.)	
Depth	Matrix			lox Feature						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/3	100		_			Sandy loam			
-										
										_
				_						
-										
1=				40 14			21	DI David		
	oncentration, D=De Indicators: (Appli					ains.	Location: I	or Problem	ining, M=Matr matic Hydric	IX.
		Cable to all Li				DD 0 T	_		-	Solis .
Histosol			Polyvalue E				_	uck (A9) (L uck (A10) (
Black Hi	oipedon (A2)		Loamy Muc							MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gley			(0)	$\overline{}$	•	, ,	(LRR P, S, T)
	I Layers (A5)		Depleted M		(1-2)				Loamy Soils (1779)	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		-6)			A 153B)	Louiny Cons	(1 20)
	cky Mineral (A7) (I		Depleted D					rent Mater	ial (TF2)	
	esence (A8) (LRR		Redox Dep						Surface (TF1	12)
	ck (A9) (LRR P, T)	•	Marl (F10)		-,			Explain in I	•	
Depleted	Below Dark Surfa	ce (A11)	Depleted O		(MLRA 1	51)		·	ŕ	
Thick Da	ark Surface (A12)		☐ Iron-Manga	nese Mass	es (F12) (LRR O, P	, T) ³ Indica	tors of hyd	drophytic vege	tation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Sur	face (F13)	(LRR P, T	', U)	wetla	and hydrol	ogy must be p	resent,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochri					ss disturbe	ed or problema	atic.
	Bleyed Matrix (S4)		Reduced V							
	edox (S5)		Piedmont F			•				
	Matrix (S6)			Bright Loa	my Soils (F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,									
Restrictive I	_ayer (if observed):								
Type:			_							,
Depth (inc	ches):		_				Hydric Soil F	Present?	Yes	No <u>√</u>
Remarks:							•			
Hydric soil no	ot present									
[
I										

Project/Site: 1461 Edge Lowman	City/C	County: Choctaw		Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman				Sampling Point: UP2137
Investigator(s):	Section	n, Township, Range: To		
Landform (hillslope, terrace, etc.): Upland, Flat		relief (concave, convex,		Slope (%): _0
D 405			none). <u>none</u>	Datum: WGS 84
	Lat:	Long:		
Soil Map Unit Name: SaB			NWI classificat	
Are climatic / hydrologic conditions on the site typical for th	-			
Are Vegetation, Soil, or Hydrology	significantly disturb	ed? Are "Normal	Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology	naturally problema	tic? (If needed, e	xplain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sam	pling point locatio	ns, transects,	important features, etc.
Hydrophytic Vegetation Present?	No			
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes N	No ✓	Is the Sampled Area		,
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	No 🗸	within a Wetland?	Yes	No✓_
Remarks:				
Upland sample point UP2137				
HYDROLOGY				
Wetland Hydrology Indicators:				tors (minimum of two required)
Primary Indicators (minimum of one is required; check all			Surface Soil (
	c Fauna (B13)			etated Concave Surface (B8)
	eposits (B15) (LRR gen Sulfide Odor (C		Drainage Pat	
	•	ong Living Roots (C3)	Moss Trim Lin	Nater Table (C2)
	nce of Reduced Iron		Crayfish Burn	
	t Iron Reduction in	, ,	= '	sible on Aerial Imagery (C9)
	luck Surface (C7)		Geomorphic	
Iron Deposits (B5)	(Explain in Remarks	s)	Shallow Aquit	
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral	· ·
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No _ ✓ _ De				
Water Table Present? Yes No _ ✓ _ De			hadaalaan Baasaa	12 V N- /
Saturation Present? Yes No _✓_ De (includes capillary fringe)	sptn (inches):	vvetiand n	lydrology Presen	t? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, prev	vious inspections), if ava	ilable:	
Remarks: Hydrology not present				
The manner of the second				

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

Sampling Point: UP2137

Too Status (Blatains 30 ft r		Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: 30 ft r)	<u>% Cover</u> 15	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A		
2. Liquidambar styraciflua	15		FAC	That Are OBL, FACW, or FAC: 3 (A	()	
3. Pinus taeda	10		FAC	Total Number of Dominant		
Quercus falcata	10		FACU	Species Across All Strata: 4 (B	3)	
5. Quercus nigra	10		FAC	Percent of Dominant Species		
	0		170	That Are OBL, FACW, or FAC: 75 (A	VB)	
6	0			Prevalence Index worksheet:		
7	0			Total % Cover of: Multiply by:		
8	2001			OBL species $0 x 1 = 0$		
30		Total Cov		FACW species 0 x 2 = 0		
50% of total cover: 30 ft r	20% of	total cover:	12	FAC species 60 x 3 = 180		
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Carpinus caroliniana	10	1	FAC	FACU species 20 x 4 = 80		
2. Ostrya virginiana	10		FACU	UPL species 0 x 5 = 0		
	0		TACO		(B)	
3	0			()	-,	
4	0			Prevalence Index = $B/A = 3.3$		
5	0			Hydrophytic Vegetation Indicators:		
6	0			1 - Rapid Test for Hydrophytic Vegetation		
7	0			2 - Dominance Test is >50%		
8				3 - Prevalence Index is ≤3.0 ¹		
40		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)		
50% of total cover: 10	20% of	total cover:	4			
Herb Stratum (Plot size: 30 ft r)	0			¹ Indicators of hydric soil and wetland hydrology mus	st	
1	0 0			be present, unless disturbed or problematic.		
2	. -			Definitions of Four Vegetation Strata:		
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm)) or	
4	0			more in diameter at breast height (DBH), regardles		
5	0			height.		
6	0			Sapling/Shrub - Woody plants, excluding vines, les	SS	
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8	0			Herb – All herbaceous (non-woody) plants, regardle	ess	
9	0			of size, and woody plants less than 3.28 ft tall.		
10	0			Woody vine – All woody vines greater than 3.28 ft i	in	
11	0			height.		
12	0					
		Total Cov	er			
	20% of	total cover:				
Woody Vine Stratum (Plot size: 30 ft r)						
1	0					
2	0					
3	0					
4	0					
5	0			Hydrophytic		
		Total Cov	er	Vegetation		
50% of total cover:	20% of	total cover:		Present? Yes _ ✓ No		
Remar : If obser d, st morpholog al adaptat ns bel Hydrophytic vegetation present.).					

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remarks
0 - 20	10YR 4/3	_ 100 _					Sand	
-								
-								
-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all Li	_					Problematic Hydric Soils ³ :
Histosol			Polyvalue Be Thin Dark Su				. —	((A9) (LRR O)
Black Hi	oipedon (A2) stic (A3)		Loamy Mucky					((A10) (LRR S) /ertic (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			(0)		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		,			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark	Surface (F	6)		(MLRA 1	
	cky Mineral (A7) (L		Depleted Dar				_	nt Material (TF2)
	esence (A8) (LRR I		Redox Depre	•	3)			ow Dark Surface (TF12)
	ck (A9) (LRR P, T) Below Dark Surfa		☐ Marl (F10) (L☐ Depleted Och		(MI RA 1	51)	Other (Exp	olain in Remarks)
	ark Surface (A12)	CC (ATT)	Iron-Mangane				T) ³ Indicator	s of hydrophytic vegetation and
	rairie Redox (A16) (MLRA 150A)					•	I hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ver					
	edox (S5)		Piedmont Flo			•	•	20)
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous B	right Loar	ny Solls (F20) (MLR	A 149A, 153C, 15	3D)
	_ayer (if observed)						1	
Type:	zayer (ii observed)	,.						
" —	ches):		_				Hydric Soil Pre	sent? Yes No _✓
Remarks:			_				,	
Hydric soils n	ot present							

Project/Site: 1461 Edge Lowman	City/County: C	hoctaw	Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman			a Sampling Point: UP2138
Investigator(s)	Section Townsh	nip, Range: Gilbertown	
Landform (hillslope, terrace, etc.): Upland, Flat		cave, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): P 135 Lat:	Local Teller (cond	Long:	Datum: WGS 84
Soil Map Unit Name: ArF			***
•		NWI classifi	- Cationi
Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation, Soil, or Hydrology signifi			" present? YesNo
Are Vegetation, Soil, or Hydrology natura	ally problematic?	(If needed, explain any ansv	vers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sampling po	oint locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Veg No.	1		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	√ Is the Sa	mpled Area	,
Wetland Hydrology Present? Yes No	within a	Wetland? Yes	No✓
Remarks:			
Upland sample point UP2138			
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a			oil Cracks (B6)
Surface Water (A1) Aquatic Faun High Water Table (A2) Marl Deposit	ia (B13) s (B15) (LRR U)		/egetated Concave Surface (B8) Patterns (B10)
	Ilfide Odor (C1)		Lines (B16)
	zospheres along Living		n Water Table (C2)
	Reduced Iron (C4)		urrows (C8)
Drift Deposits (B3)	Reduction in Tilled Soils	s (C6) Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		=	ic Position (D2)
	in in Remarks)	=	quitard (D3)
Inundation Vis ble on Aerial Imagery (B7)			ral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:		Spnagnum	moss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (i	nches):		
Water Table Present? Yes No _✓ Depth (i		1	
Saturation Present? Yes No _✓ Depth (i		Wetland Hydrology Pres	ent? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aeria	pnotos, previous inspe	ections), if available:	
Remarks:			
Hydrology not present			

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

Sampling Point: UP2138

T 0: 1 (D) 1: 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liriodendron tulipifera	% Cover 15	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Quercus alba	10		FACU	Total Number of Dominant
4. Quercus falcata	10		FACU	Species Across All Strata: 7 (B)
5. Pinus glabra	5		FACW	Percent of Dominant Species
	0		TAOVV	That Are OBL, FACW, or FAC: 43 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	500/			OBL species $0 x 1 = 0$
25		Total Cov		FACW species 5 x 2 = 10
50% of total cover: <u>25</u>	20% of	total cover:	10	FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Ilex opaca	10	✓	FAC	FACU species 50 x 4 = 200
2. Liquidambar styraciflua	10		FAC	UPL species 0 x 5 = 0
3. Ostrya virginiana	10		FACU	Column Totals: 90 (A) 315 (B)
4. Pinus taeda	5		FAC	
5. Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
	0		FACO	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	4004			3 - Prevalence Index is ≤3.0 ¹
20		Total Cov	_	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 20	20% of	total cover:	8	
Herb Stratum (Plot size: 30 ft r)	0			¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.	0			
		Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No _✓
Remarks: (If observed, list morphological adaptations belo				
Hydrophytic vegetation not present	,.			
,,,,				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence o	f indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	<u> </u>
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 4/6	100					Clay		
-									
_									
 -									
¹ Type: C=C	oncentration, D=De	pletion, RM=R	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Ma	trix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise note	ed.)		Indicators for	or Problematic Hydri	c Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🛄 1 cm Mu	ıck (A9) (LRR O)	
Histic Ep	oipedon (A2)		Thin Dark Su					ıck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F1	
	Layers (A5)	D T 11)	Depleted Ma		· (C)			ous Bright Loamy Soils A 153B)	s (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark Depleted Da					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (T	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0,			explain in Remarks)	,
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indicat	tors of hydrophytic veg	getation and
	rairie Redox (A16)					', U)		and hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbed or probler	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 1	152D)	
	rface (S7) (LRR P,	S T III	Anomalous E	ongni Loar	riy Solis (rzu) (IVILR	KA 149A, 153C,	1530)	
	Layer (if observed	•					T		
Type:	, , , , , , , , , , , , , , , , , , , ,	,-							
	ches):		_				Hydric Soil P	resent? Yes	No ✓
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman	City/Cour	_{nty:} Choctaw		Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman		•		Sampling Point: UP2139
Investigator(s):	Section T	Township, Range: Toxe		
Landform (hillslope, terrace, etc.): Upland, Flat		ef (concave, convex, no		Slope (%): 0
D 425			ie). <u>Holle</u>	Datum: WGS 84
		Long:		
Soil Map Unit Name: ArF		/	_NWI classificati	
Are climatic / hydrologic conditions on the site typical for this \boldsymbol{t}				
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed?	? Are "Normal Ci	rcumstances" pr	esent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(If needed, exp	ain any answers	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map sl	nowing samplin	ng point locations	s, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No	√			
Hydric Soil Present? Yes No	√ Is t	the Sampled Area		
Wetland Hydrology Present? Yes No	✓ Wit	thin a Wetland?	Yes	No✓
Remarks:	•			
Upland sample point UP2139				
HYDROLOGY				
		94	aandan, Indiaat,	ore (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that	at apply)	<u>56</u>		ors (minimum of two required)
	auna (B13)	 	Surface Soil C	etated Concave Surface (B8)
	osits (B15) (LRR U)	-	Drainage Patte	
	Sulfide Odor (C1)	Ī	Moss Trim Lin	
	Rhizospheres along	Living Roots (C3)	1	/ater Table (C2)
Sediment Deposits (B2)	of Reduced Iron (C4	(4)	Crayfish Burro	ws (C8)
Drift Deposits (B3)	on Reduction in Tille	ed Soils (C6)	Saturation Vis	ible on Aerial Imagery (C9)
 	Surface (C7)	<u> </u>	Geomorphic P	
	plain in Remarks)	Ļ	Shallow Aquita	
Inundation Vis ble on Aerial Imagery (B7)		<u> </u>	FAC-Neutral T	
		<u>_</u>	L Spriagnum mc	oss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ _ Depth	(inches):			
Water Table Present? Yes No _✓ Depth				
Saturation Present? Yes No ✓ Depth			rology Present	? Yes No_ √
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous	is inspections), if availab	ole:	
Remarks: hydrology not present				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

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

50% of total cover: 25

Tree Stratum (Plot size: 30 ft r

Sapling/Shrub Stratum (Plot size: 30 ft r

1. Liriodendron tulipifera

2. Pinus taeda

3. Quercus alba

5. Pinus glabra

1. Ilex opaca

4. Pinus taeda

5. Quercus alba

2. Liquidambar styraciflua

3. Ostrya virginiana

4. Quercus falcata

Sampling Point: UP2139 Absolute Dominant Indicator Dominance Test worksheet: **Number of Dominant Species** That Are OBL, FACW, or FAC: ____ (A) **Total Number of Dominant** 7 <u>(B)</u> Species Across All Strata: Percent of Dominant Species 43 That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0**OBL** species x 2 = 10 **FACW species** ___ x 3 = 105 FAC species x 4 = 200 50 FACU species x = 00 UPL species Column Totals: 90 315 (A) Prevalence Index = B/A = 3.5Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%

8		_ 3 - Prevalence Index is ≤3.0 ¹
	40% = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of total cover: 8	
Herb Stratum (Plot size: 30 ft r)		¹ Indicators of hydric soil and wetland hydrology must
1	0	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0	more in diameter at breast height (DBH), regardless of
5.	0	height.
6.	0	Sapling/Shrub – Woody plants, excluding vines, less
7.	0	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0	Herb – All herbaceous (non-woody) plants, regardless
9.	0	of size, and woody plants less than 3.28 ft tall.
10	0	- All was division and the second state of the
11.	0	 Woody vine – All woody vines greater than 3.28 ft in height.
12.	0	
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: 30 ft r)		_
1	0	
2.	0	-
3.	0	-
4.	0	-
5.	0	- Its door by the
	= Total Cover	- Hydrophytic Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations bel		- [
Hydrophytic vegetation not present	ow).	
, in a property and the second		
IS Army Corps of Engineers		Atlantic and Gulf Coastal Plain Region – Version 2.0

% Cover Species? Status

= Total Cover

20% of total cover: 10

FACU

FACU

FACU

FACW

FAC

FAC

FAC

FACU

FACU

FAC

15

10

10

10

5

0

0

0

50%

10

10

10

5

5

0

0

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence o	of indicators.)	
Depth	Matrix			x Feature:					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remark	(S
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
-									
_									
l — -									
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=M	atrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	or Problematic Hydr	ric Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🔲 1 cm Mu	uck (A9) (LRR O)	
. Histic Ep	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outsic	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F	
	Layers (A5)	D T II)	Depleted Ma		· (C)			ous Bright Loamy Soi A 153B)	Is (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark Depleted Da					rent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (1	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0,			Explain in Remarks)	,
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	, T) ³ Indicat	tors of hydrophytic ve	getation and
	rairie Redox (A16)					', U)		and hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 1	152D)	
	rface (S7) (LRR P,	S T III	Anomalous E	ongni Loai	riy Solis (rzu) (IVILR	KA 149A, 153C,	1930)	
	Layer (if observed						1		
Type:	•	,							
	ches):		_				Hydric Soil P	Present? Yes	No_✓
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman	City/County: C	hoctaw	Sampling Date: 2020-04-13
Applicant/Owner: Edge Lowman			Sampling Point: UP2140
Investigator(s)	Section Townsh	nip, Range: Toxey	
Landform (hillslope, terrace, etc.): Upland, Flat		cave, convex, none): none	Slope (%):0
D 405	Local Teller (con		Datum: WGS 84
		Long:	NI/A
Soil Map Unit Name: ArF		NWI classific	ation.
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes		
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed?	Are "Normal Circumstances"	present? YesNo
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	owing sampling po	oint locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No _	√		
Hydric Soil Present? Yes No	√ Is the Sa	mpled Area	
Wetland Hydrology Present? Yes No _	✓ within a	Wetland? Yes	No✓
Remarks:			
Upland sample point UP2140			
LIVEROLOGY			
HYDROLOGY		Occasion India	atom (minimum of the more without)
Wetland Hydrology Indicators:	annh)		cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that			Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fau Marl Depos	ina (B15) its (B15) (LRR U)		egetated Concave Surface (B8) atterns (B10)
	Sulfide Odor (C1)	Moss Trim	
	nizospheres along Living		Water Table (C2)
	f Reduced Iron (C4)	Crayfish Bu	· ·
Drift Deposits (B3)	Reduction in Tilled Soils	s (C6) 🔲 Saturation \	/isible on Aerial Imagery (C9)
	Surface (C7)	= '	c Position (D2)
	ain in Remarks)	Shallow Aq	· · ·
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	` '
		Spnagnum	moss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ _ Depth	(inches):		
Water Table Present? Yes No _✓ Depth		1	
Saturation Present? Yes No ✓ Depth		- Wetland Hydrology Prese	ent? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aeric	al photos, previous inspe	ections), if available:	
Remarks: Hydrology not present			

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

Sampling Point: UP2140

T 01 1 20 1 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liriodendron tulipifera	% Cover 15	Species? ✓	FACU	Number of Dominant Species That Are OBL. FACW. or FAC: 3 (A)
2. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Quercus alba	10		FACU	Total Number of Dominant
4 Quercus falcata	10		FACU	Species Across All Strata: 7 (B)
5. Pinus glabra	5		FACW	Percent of Dominant Species
	0		TACVV	That Are OBL, FACW, or FAC: 43 (A/B)
6	- 0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	500/			OBL species $0 \times 1 = 0$
25		= Total Cov		FACW species 5 x 2 = 10
50% of total cover: <u>25</u>	20% of	total cover	10	FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r)	10	,	FAC	FACU species 50 x 4 = 200
1. Ilex opaca			FAC	UPL species 0 x 5 = 0
2. Liquidambar styraciflua	10	<u>√</u>	FACU	Column Totals: 90 (A) 315 (B)
3. Ostrya virginiana			FAC	(2)
4. Pinus taeda	5		FACU	Prevalence Index = B/A = 3.5
5. Quercus alba	5		FACO	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
22		= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>20</u>	20% of	total cover:	8	
Herb Stratum (Plot size:30 ft r)	•			¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.	0			
		Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No✓
Remarks: (If observed, list morphological adaptations believed)				
Hydrophytic vegetation not present				

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence o	of indicators.)	
Depth	Matrix			x Feature:					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remark	(S
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
-									
_									
l — -									
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=M	atrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	or Problematic Hydr	ric Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🔲 1 cm Mu	uck (A9) (LRR O)	
. Histic Ep	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outsic	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F	
	Layers (A5)	D T II)	Depleted Ma		· (C)			ous Bright Loamy Soi A 153B)	Is (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark Depleted Da					rent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (1	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0,			Explain in Remarks)	,
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	, T) ³ Indicat	tors of hydrophytic ve	getation and
	rairie Redox (A16)					', U)		and hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 1	152D)	
	rface (S7) (LRR P,	S T III	Anomalous E	ongni Loai	riy Solis (rzu) (IVILR	KA 149A, 153C,	1930)	
	Layer (if observed						1		
Type:	•	,							
	ches):		_				Hydric Soil P	Present? Yes	No_✓
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 edge lowman	City/County: Choctaw		Sampling Date: 2020-03-12
Applicant/Owner: Edge lowman	ony.county.		Sampling Point: UP2141/UP2142/UP2143
Investigator(s):	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conve		Slone (%): 3
Subregion (LRR or MLRA): P 135 Lat:	Long:		Datum: WGS 84
Soil Map Unit Name: IzA	Long.	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of you			
Are Vegetation, Soil, or Hydrology significantly			present? YesNo
Are Vegetation, Soil, or Hydrology naturally pr	blematic? (If needed	l, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point loca	tions, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	Is the Sampled Are		/
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wetland?	Yes	No✓
Remarks:			
Upland sample point UP2141/UP2142/ UP2143			
LIVEROL COV			
HYDROLOGY		Canandan, Indian	Acre (esiminare of true required)
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1)		Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide (Moss Trim L	
	eres along Living Roots (C3		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	i i
	tion in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	(C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in F	emarks)	Shallow Aqu	itard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No ✓ Depth (inches	· • • • • • • • • • • • • • • • • • • •	d the decision in Decision	40 Vaa Na d
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)): wetian	d Hydrology Preser	nt? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if a	vailable:	
Damarka			
Remarks:			

30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?	Status FAC	Number of Dominant Species
1. Liquidambar styraciflua	20	✓	FAC	That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 25 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	20% =	Total Cov	er	OBL species 0 x 1 = 0
50% of total cover: 10	20% of	total cover:	4	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 20 x 3 = 60
1. Rosa multiflora	15	✓	FACU	FACU species <u>80</u> x 4 = <u>320</u>
2.	0			UPL species 0 x 5 = 0
	0			Column Totals: 100 (A) 380 (B)
3	0			2.0
4	0			Prevalence Index = $B/A = \frac{3.8}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 8	20% of	total cover:	3	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	30	✓	FACU	be present, unless disturbed or problematic.
2. Trifolium pratense	15	✓	FACU	Definitions of Four Vegetation Strata:
3. Allium cernuum	10		FACU	Tree Meady plants evaluating vince 3 in (7.6 am) or
4. Hieracium greenii	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sanling/Shrub Woody plants evaluding vines loss
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			or size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
22		Total Cov		
50% of total cover: <u>33</u>	20% of	total cover:	13	
Woody Vine Stratum (Plot size: 30 ft r)	•			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				.L.
Tremarks. (If observed, list morphological adaptations bek	JW).			

SOIL Sampling Point: UP2141/UP2142/UP2144

Profile Description	: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirn	n the absence o	of indicato	rs.)	
Depth	Matrix			ox Features						
	or (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20 2.5YI	R 3/8	100					Sandy clay			
-										
										
-										
1		Julius DM 5		0 14 1	0 - 1 0		21	DI Daniel I		
¹ Type: C=Concentra Hydric Soil Indicate						ains.			ining, M=Matri matic Hydric	
l <u> </u>	ors: (Applic	cable to all L	_						-	Solls :
Histosol (A1)	(40)		Polyvalue B					uck (A9) (L		
Histic Epipedon			Thin Dark Solution					uck (A10) (MI DA 450A D\
Black Histic (A3 Hydrogen Sulfid	•		Loamy Muci	•		(0)				MLRA 150A,B) (LRR P, S, T)
Stratified Layers			Depleted Ma		-2)				Loamy Soils (F19)	
Organic Bodies		T II)	Redox Dark		6)			A 153B)	Loanly Solis (120)
5 cm Mucky Mir			Depleted Da				_ ,	rent Materi	al (TF2)	
Muck Presence			Redox Depr						Surface (TF1	2)
1 cm Muck (A9)		-,	Marl (F10) (,			Explain in F		_,
Depleted Below		ce (A11)	Depleted Oc		MLRA 1	51)			,	
Thick Dark Surfa		` ,	Iron-Mangar				, T) ³ Indica	tors of hyd	lrophytic vege	tation and
Coast Prairie Re	edox (A16) (MLRA 150A)	Umbric Surf	ace (F13) (I	LRR P, T	, U)	wetla	and hydrolo	ogy must be p	resent,
Sandy Mucky M	ineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unles	ss disturbe	d or problema	tic.
Sandy Gleyed N	Matrix (S4)		Reduced Ve	rtic (F18) (I	MLRA 15	0A, 150B))			
Sandy Redox (S	S5)		Piedmont FI	oodplain So	oils (F19)	(MLRA 14	49A)			
Stripped Matrix			Anomalous	Bright Loan	ny Soils (I	F20) (MLR	RA 149A, 153C,	153D)		
Dark Surface (S										
Restrictive Layer (i	f observed)	:								
Type:										
Depth (inches): _							Hydric Soil F	Present?	Yes	No <u>√</u>
Remarks:							•			
Hydric soil not prese	nt									

Project/Site: 1461 Edge Lowman	City/0	County: Choctaw	Sampling Dat	e: 2020-03-13
Applicant/Owner: Edge Lowman			Alabama Sampling Point	
Investigator(s):	Section	on, Township, Range: Land		
Landform (hillslope, terrace, etc.): Upland, FI		relief (concave, convex, none	a): none SI	ope (%):0
Subregion (LRR or MLRA): P 135	Lat:	Long:		ope (70) oatum: WGS 84
Soil Map Unit Name: BnE2	Lat.			atum
	to to the the three of some N	,	NWI classification:	
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydro			cumstances" present? Yes _	<u>▼</u> No
Are Vegetation, Soil, or Hydro	ogy naturally problema	itic? (If needed, expla	in any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point locations	transects, important	features, etc.
Hydrophytic Vegetation Present? Ye	s ✓ No			
Hydric Soil Present? Ye	s No ✓	Is the Sampled Area	/	
Wetland Hydrology Present? Ye	s	within a Wetland?	Yes No✓	_
Remarks:				
Upland sample point UP2144				
LIVERGLOCK				
HYDROLOGY		0		of true no mulino d
Wetland Hydrology Indicators:	and shock all that anniv	<u>Sec</u>	condary Indicators (minimum o	or two required)
Primary Indicators (minimum of one is requir		H	Surface Soil Cracks (B6)	Curfore (DO)
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (LRF	, III	Sparsely Vegetated Concave Drainage Patterns (B10)	e Surface (Bo)
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)	
Water Marks (B1)	Oxidized Rhizospheres a	_	Dry-Season Water Table (C2	2)
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows (C8)	,
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	□	Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain in Remark	s)	Shallow Aquitard (D3)	
Inundation Vis ble on Aerial Imagery (B7	")	片	FAC-Neutral Test (D5)	
☐ Water-Stained Leaves (B9)		<u> </u>	Sphagnum moss (D8) (LRR	T, U)
Field Observations: Surface Water Present? Yes	No✓_ Depth (inches):			
1	No _ ✓ Depth (inches):			
1	No ✓ Depth (inches):		ology Present? Yes	No ✓
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre-	vious inspections), if availabl	ə :	
Remarks:				
Hydrology not present				

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

Sampling Point: UP2144

Torra Otratago (Diataina) 30 ft r		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	<u>% Cover</u> 15	Species? ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	
2. Liquidambar styraciflua	15		FAC	That Are OBL, FACW, or FAC: 3 (A)	
3. Pinus taeda	10		FAC	Total Number of Dominant	
4 Quercus falcata	10		FACU	Species Across All Strata: 4 (B)	
5. Quercus nigra	10		FAC	Percent of Dominant Species	
	0		170	That Are OBL, FACW, or FAC: 75 (A/	B)
6	- 0			Prevalence Index worksheet:	
7	- 0			Total % Cover of: Multiply by:	
8				OBL species 0 x 1 = 0	
20		Total Cov		FACW species 0 x 2 = 0	
50% of total cover: <u>30</u>	20% of	total cover:	12	FAC species 60 x 3 = 180	
Sapling/Shrub Stratum (Plot size: 30 ft r)	40	,	E 40	FACU species 20 x 4 = 80	
1. Carpinus caroliniana	10		FAC	UPL species 0 x 5 = 0	
2. Ostrya virginiana	10	✓	FACU	Column Totals: 80 (A) 260 (E	٠,
3	0			Column rotals (A) (B	"
4	0			Prevalence Index = $B/A = \frac{3.3}{}$	
5				Hydrophytic Vegetation Indicators:	_
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	0			3 - Prevalence Index is ≤3.0 ¹	
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 10	20% of	total cover:	4		
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology must	
1	0			be present, unless disturbed or problematic.	
2	0			Definitions of Four Vegetation Strata:	
3	0			Tree Meady plants evaluating vince 3 in (7.6 cm)	
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless	
5.	0			height.	
6.	0			Sapling/Shrub – Woody plants, excluding vines, less	2
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.	0			Herb – All herbaceous (non-woody) plants, regardles	
9.	0			of size, and woody plants less than 3.28 ft tall.	15
10	0				
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.	1
12.	0				
		Total Cov	er		
50% of total cover:		total cover			
Woody Vine Stratum (Plot size: 30 ft r)					
1	0				
	0				
2	0				
	0				
4 5	0			I.,	
o		Total Cov	or	Hydrophytic Vegetation	
50% of total cover				Present? Yes ✓ No	
50% of total cover:		total cover			
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation present	ow).				

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	indicator	or confir	n the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Feature	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 20	10YR 4/3	100					Sand			
l — —										
-										
l — —										
-										
¹Type: C=C	oncentration, D=De	pletion PM=E	Peduced Matrix M	S=Masker	l Sand Gr	nine	² Location:	DI = Pore I	ining, M=Matr	iv
	Indicators: (Appli					allis.			matic Hydric	
_		cable to all L				DD 0 T			-	oons .
Histosol			Polyvalue Be				. —	luck (A9) (L		
	oipedon (A2)		Thin Dark Su					luck (A10)		MI DA 450A D\
_	stic (A3)		Loamy Muck	-		(0)				MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)					(LRR P, S, T)
	d Layers (A5)	D T II)	Depleted Ma		-0\			_	Loamy Soils	(F20)
	Bodies (A6) (LRR		Redox Dark					RA 153B)	:-I (TEO)	
	icky Mineral (A7) (L		Depleted Da		. ,			rent Mater		10)
	esence (A8) (LRR		Redox Depre		8)				k Surface (TF1	(2)
	ick (A9) (LRR P, T)		Mari (F10) (L		(MI DA 4	E4\	Other (Explain in l	Remarks)	
_	d Below Dark Surfa ark Surface (A12)	ce (ATT)	Depleted Oc				T) ³ India	atora of hu	dranbutia vada	tation and
I =	, ,	(MI DA 150A)	Iron-Mangan						drophytic vege	
	rairie Redox (A16) lucky Mineral (S1)		Umbric Surfa Delta Ochric			, 0)			ogy must be p ed or problema	
_	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			0A 150B		ess disturbe	ed of problems	iuc.
	Redox (S5)		Piedmont Fk				•			
	Matrix (S6)		_			•	49A) RA 149A, 153C,	153D)		
	rface (S7) (LRR P,	S T III	Allomaious L	ongni Loai	illy Solis (rzo) (WILI	(A 149A, 155C,	1330)		
	Layer (if observed									
	Layer (ii observed	,-								
Type:			_							
Depth (in	ches):						Hydric Soil	Present?	Yes	No <u>√</u>
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Edge Lowman	City/County: Ch	octaw	Sampling Date: 2020-03-14
Applicant/Owner: Edge Lowman			Sampling Point: UP2145
Investigator(s):	Section, Townshi		
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): none	Slope (%):0
D 425	Local Teller (Corica		Datum: WGS 84
		Long:	
Soil Map Unit Name: BnE2		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "Normal Circumstances"	present? YesNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	յ sampling po	int locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No			
Hydric Soil Present? Yes No _✓	Is the San	mpled Area	/
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a V	vetiand? Yes	No✓
Remarks:			
Upland sample point UP2145			
LIVEROLOGY			
HYDROLOGY		O a seed and built	and a second a second and a second a second and a second a second and a second and a second and
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			il Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B1) Marl Deposits (B1)	•		egetated Concave Surface (B8) atterns (B10)
Saturation (A3) Hydrogen Sulfide			Lines (B16)
Water Marks (B1)	, ,		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bu	· ·
Drift Deposits (B3)	tion in Tilled Soils	(C6) Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	` '		c Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	Remarks)	Shallow Aq	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	` '
☐ Water-Stained Leaves (B9) Field Observations:		<u> </u>	moss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inches			
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No _ ✓ Depth (inches		Wetland Hydrology Prese	ent? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspe	ctions), if available:	
Remarks: Hydrology not present			

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

50% of total cover: 30

50% of total cover: 10

50% of total cover:

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1. Pinus taeda

3 Liquidambar styraciflua

1. Carpinus caroliniana

2. Ostrya virginiana

2. Ilex opaca

Absolute Dominant Indicator

✓

= Total Cover

= Total Cover

= Total Cover

= Total Cover

20% of total cover:

20% of total cover: ___

20% of total cover: 4

20% of total cover: 12

FAC

FAC

FAC

FAC

FACU

% Cover Species? Status

15

15

0

0

0

0

0

0

0

0

0

20%

Sampling Point: UP2145 **Dominance Test worksheet:** Number of Dominant Species That Are OBL, FACW, or FAC: ____(A) **Total Number of Dominant** 5 ____ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species x 2 = 0 **FACW** species ___ x 3 = 210 **FAC species** ___ x 4 = 40 10 FACU species __ x 5 = 0 **UPL** species Column Totals: 80 __ (A) Prevalence Index = B/A = 3.1Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.

	50% of total cover:	
Remarks:	(If observed, list morphological adaptations to	oelow).
- Ivdrophyti	ic vegetation present	

Woody Vine Stratum (Plot size: 30 ft r)

Yes <u>√</u> No ____

Hydrophytic

Vegetation

Present?

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the in	ndicator	or confirn	n the absence	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/3	100					Sand			
-										
_										
-										
¹Type: C=C	oncentration, D=De	nletion RM=R	Reduced Matrix M	S=Masked	Sand Gr	aine	² Location:	PI =Pore I	ining, M=Matri	·
	ndicators: (Appli					unio.			matic Hydric	
Histosol			Polyvalue Be			RRSTI		uck (A9) (L	-	
_	oipedon (A2)		Thin Dark Su					uck (A10) (
Black Hi			Loamy Muck							/ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)	·				(LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anoma	lous Bright	Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark				_ ,	A 153B)		
	cky Mineral (A7) (L		Depleted Da					rent Materi		
	esence (A8) (LRR		Redox Depre		()				Surface (TF1	2)
	ck (A9) (LRR P, T)		Mari (F10) (L		MI DA 4	54)	Other (Explain in F	Remarks)	
	l Below Dark Surfa ırk Surface (A12)	ce (ATT)	☐ Depleted Oc Iron-Mangan				T) ³ Indica	atore of by	drophytic vege	tation and
	rairie Redox (A16)	(MLRA 150A)					•		ogy must be p	
	lucky Mineral (S1)		Delta Ochric			, •,			ed or problema	
_	leyed Matrix (S4)	(=:::::::::::::::::::::::::::::::::::::	Reduced Ve			0A, 150B)			a or promoning	
	edox (S5)		Piedmont Fk							
Stripped	Matrix (S6)		Anomalous I	Bright Loam	ny Soils (F20) (MLR	RA 149A, 153C,	153D)		
	face (S7) (LRR P,									
Restrictive I	ayer (if observed):								
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Lowman_1	Same Same Same Same Same Same Same Same	pling Date: 2020-03-14
Applicant/Owner: NextEra	Sity/County: Needham/Choctaw Samp State: Alabama Samp	oling Point: UP2146
Investigator(s)	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Upland, Flat	ocal relief (concave, convex, none): None	Slope (%): 1
	Long:	Datum: WGS 84
Soil Map Unit Name: MdA	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of ye		
Are Vegetation, Soil, or Hydrology significantly	isturbed? Are "Normal Circumstances" present	t? Yes <u> </u>
Are Vegetation, Soil, or Hydrology naturally pr	olematic? (If needed, explain any answers in R	lemarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Remarks:	Is the Sampled Area within a Wetland? Yes	No √
Upland sample for wetland W2119 and W2120		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (n	minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks	* *
Surface Water (A1)	_	d Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide (A3)		
	res along Living Roots (C3) Dry-Season Water	*
Sediment Deposits (B2)		
	_ ·	on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	C7) Geomorphic Position	on (D2)
Iron Deposits (B5) Under (Explain in F	marks) 🔲 Shallow Aquitard (D	D3)
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral Test (` *
Water-Stained Leaves (B9)	☐ Sphagnum moss (I	08) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No _ ✓ Depth (inches Water Table Present? Yes No _ ✓ Depth (inches		
Saturation Present? Yes No _ ✓ Depth (inches	 	′es No ✓
(includes capillary fringe)		es No_ <u>·</u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	, previous inspections), if available:	
Remarks: No hydrology present		

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

50% of total cover:

50% of total cover:

50% of total cover: 40

50% of total cover:

0

0

0

0

0

0

0

0

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 15 ft r)

Herb Stratum (Plot size: 5

1. Trifolium dubium

2. Trifolium pratense

3. Taraxacum officinale

Sampling Point: UP2146 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** 0 _____(A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 2 (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0**OBL** species = Total Cover 0 x 2 = 0**FACW** species __ 20% of total cover: ___ ___ x 3 = 0 FAC species x 4 = 320 80 FACU species __ x 5 = 0 **UPL** species Column Totals: 80 (A) Prevalence Index = B/A = 4Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) __ 20% of total cover: ___ ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. FACU Definitions of Four Vegetation Strata: **FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 80% = Total Cover 20% of total cover: 16 **Hydrophytic** = Total Cover Vegetation Yes ____ No _ ✓ Present? 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below).
No hydropl	hytic vegetation	on present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desc	iption: (Describe	e to the depth	needed to docu	ment the ir	ndicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix			ox Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/4	100					Loam			
l — -										
_										_
¹Type: C=Ce	ncentration, D=De	nlotion PM-P	oduced Matrix M	S-Maakad	Sand Cr	oine	² Location:	DI = Doro I	ining, M=Matri	
	ndicators: (Appli					allis.			matic Hydric	
1		cable to all Li	_			DD C T I		luck (A9) (L	-	cons .
Histosol (pedon (A2)		Polyvalue Bo					luck (A9) (I		
Black His			Loamy Much							MLRA 150A,B)
	Sulfide (A4)		Loamy Gley			(0)				(LRR P, S, T)
	Layers (A5)		Depleted Ma		_/				Loamy Soils (
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			RA 153B)		0,
	cky Mineral (A7) (L		Depleted Da				_ ,	rent Mater	ial (TF2)	
	sence (A8) (LRR		Redox Depr				☐ Very S	hallow Dark	k Surface (TF1	2)
	k (A9) (LRR P, T)		Marl (F10) (I	LRR U)			Other (Explain in l	Remarks)	
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) ((MLRA 1	51)				
	rk Surface (A12)		Iron-Mangar						drophytic vege	
	airie Redox (A16)					', U)		-	ogy must be p	
_	ucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbe	ed or problema	itic.
	eyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Fl			•		4.505)		
	Matrix (S6)	O T III	Anomalous I	Bright Loan	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	face (S7) (LRR P, ayer (if observed									
l _	ayer (ii observed).								
Type:			_						W	
	hes):		_				Hydric Soil	Present?	Yes	No <u> </u>
Remarks: No hydric soil	present									
No flydfic son	present									
I										

Project/Site: 1461 Edge Lowman	City/County: \	Vashington	Sampling Date: 2020-03-14
Applicant/Owner: Edge Lowman			bama Sampling Point: UP2147
Investigator(s):	Section Towns	hip, Range: Frankville	
Landform (hillslope, terrace, etc.): Upland, Flat		ncave, convex, none): no	ne Slope (%): 0
D 405	Local Feller (col		Datum: WGS 84
		Long:	
Soil Map Unit Name: ByB			lassification:
Are climatic / hydrologic conditions on the site typical for this time of	iyear? Yes <u>▼</u>		
Are Vegetation, Soil, or Hydrology significan	ntly disturbed?	Are "Normal Circumsta	ances" present? YesNo
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling p	oint locations, trar	sects, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydric Soil Present? Yes No ✓	- Is the S	ampled Area	
Wetland Hydrology Present? Yes No✓	— within a	Wetland? Ye	es No✓
Remarks:			
Upland sample point UP2147			
LIVEROLOGY			
HYDROLOGY		0	- Indiana (minimum of the mount of the
Wetland Hydrology Indicators:	LA.		y Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app			ce Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (Marl Deposits (I			sely Vegetated Concave Surface (B8) age Patterns (B10)
Saturation (A3) Hydrogen Sulfic			Trim Lines (B16)
	spheres along Livin		Season Water Table (C2)
Sediment Deposits (B2)		· · · · ·	fish Burrows (C8)
Drift Deposits (B3)	duction in Tilled Soi	ils (C6) 🔲 Satui	ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa		=	norphic Position (D2)
Iron Deposits (B5) Under (Explain i	n Remarks)	=	ow Aquitard (D3)
Inundation Vis ble on Aerial Imagery (B7)			Neutral Test (D5)
		<u> </u>	gnum moss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inch	nee).		
Water Table Present? Yes No _ ✓ Depth (inch			
Saturation Present? Yes No ✓ Depth (inch			Present? Yes No _ ✓
(includes capillary fringe)		1	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous insp	pections), if available:	
Remarks: hydrology not present			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

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

Sampling Point: UP2147

- 30 ft r		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Liriodendron tulipifera	<u>% Cover</u> 15	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Quercus alba	10		FACU	Total Number of Dominant
4. Quercus falcata	10		FACU	Species Across All Strata: 7 (B)
5. Pinus glabra	5		FACW	Percent of Dominant Species
	0		TAOVV	That Are OBL, FACW, or FAC: 43 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	500/			OBL species $0 x 1 = 0$
25		Total Cov		FACW species 5 x 2 = 10
50% of total cover: <u>25</u>	20% of	total cover:	10	FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Ilex opaca	10	✓	FAC	FACU species 50 x 4 = 200
2. Liquidambar styraciflua	10		FAC	UPL species 0 x 5 = 0
3. Ostrya virginiana	10		FACU	Column Totals: 90 (A) 315 (B)
4. Pinus taeda	5		FAC	
5. Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
	0		FACO	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	4004			3 - Prevalence Index is ≤3.0 ¹
20		Total Cov	_	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 20	20% of	total cover:	8	
Herb Stratum (Plot size: 30 ft r)	0			¹ Indicators of hydric soil and wetland hydrology must
1	0 0			be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.	0			
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	-	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Hydrophytic vegetation not present	,.			
,,				

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	n the absence o	of indicators.)	
Depth	Matrix			x Feature:					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remark	(S
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
-									
_									
l — -									
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=M	atrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators fo	or Problematic Hydr	ric Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 🔲 1 cm Mu	uck (A9) (LRR O)	
. Histic Ep	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)		d Vertic (F18) (outsic	
	n Sulfide (A4)		Loamy Gleye		F2)			nt Floodplain Soils (F	
	Layers (A5)	D T II)	Depleted Ma		· (C)			ous Bright Loamy Soi A 153B)	Is (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark Depleted Da					rent Material (TF2)	
	esence (A8) (LRR		Redox Depre					allow Dark Surface (1	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L		0,			Explain in Remarks)	,
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	, T) ³ Indicat	tors of hydrophytic ve	getation and
	rairie Redox (A16)					', U)		and hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo			•	49A) RA 149A, 153C, 1	152D)	
	rface (S7) (LRR P,	S T III	Anomalous E	ongni Loai	riy Solis (rzu) (IVILR	KA 149A, 153C,	1930)	
	Layer (if observed						1		
Type:	•	,							
	ches):		_				Hydric Soil P	Present? Yes	No_✓
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman	City/County:	Choctaw	Sampling Date: 2020-03-15	
Applicant/Owner: Edge Lowman			Sampling Point: UP2148/ UP2149	
Investigator(s): Section, Township, Range: Gilbertown				
Landform (hillslope, terrace, etc.): Upland, Flat		oncave, convex, none): none	Slope (%): 0	
Subregion (LRR or MLRA): P 135	Lat:	Long:	Datum: WGS 84	
Soil Map Unit Name: ToC2	Lat.	NWI classifica		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly disturbed?				
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes	No. ✓			
Hydric Soil Present? Yes	No ✓	Sampled Area		
Wetland Hydrology Present? Yes	No ✓ within	a Wetland? Yes	No✓	
Remarks:				
Upland sample point UP2148/ UP2149				
LIVEROLOGY				
HYDROLOGY Western Hydrology Indicators (minimum of two popular)				
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10)			• • • • • • • • • • • • • • • • • • • •	
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)				
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)			· ·	
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9			` '	
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)			Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)				
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral Test (D5)	
☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)				
Field Observations:	Don'th (inches)			
	Depth (inches):			
	Depth (inches):		nt? Yes No ✓	
(includes capillary fringe)			it? TesNO	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
Hydrology not present				

Sampling	Point:	UP2148/	UP2149

- 30 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species
1	- 0			That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2	- 0			Total Number of Dominant
3				Species Across All Strata: 5 (B)
4	_ 0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 40 (A/B)
6	0			Brown laws a landow was due hoofs
7				Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover:	20% of	total cover	:	FACW species $\frac{0}{0.5}$ $x = \frac{0}{1.05}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 65 x 3 = 195
1. Pinus taeda	50	✓	FAC	FACU species 35 x 4 = 140
2.	0			UPL species 0 x 5 = 0
3.	0			Column Totals: 100 (A) 335 (B)
4	0			
	0			Prevalence Index = B/A = 3.4
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
05		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20% of	total cover	10	
Herb Stratum (Plot size: 30 ft r)	4.5			¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon gerardii	15		FAC	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	10	✓	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	10	✓	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Hieracium greenii	10	✓	FACU	more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	5		FACU	height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Harb All barbassassa (non usantis) planta manadisas
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			
10 11	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
12				
25		= Total Cov		
50% of total cover: 25	20% of	total cover		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	- 0			
2	- 0			
3				
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No✓
Remarks: (If observed, list morphological adaptations bel	ow).			
Hydrophytic vegetation not present				

SOIL Sampling Point: UP2148/UP2149

Profile Desc	ription: (Describ	e to the dept	n needed to docum	nent the i	indicator	or confirn	n the absence of inc	dicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remarks
0 - 20	10YR 4/3	100					Loamy sand	
-								_
			Reduced Matrix, MS			ains.		Pore Lining, M=Matrix.
		icable to all L	RRs, unless other					roblematic Hydric Soils ³ :
Histosol			Polyvalue Be				. —	
	pipedon (A2)		Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outside MLRA 150A,B)
	istic (A3) en Sulfide (A4)		Loamy Gleye			(0)		oodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mar		/			Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark		- 6)		(MLRA 15	
	ıcky Mineral (A7) (I		Depleted Dar	k Surface	(F7)			Material (TF2)
	esence (A8) (LRR		Redox Depre		8)			w Dark Surface (TF12)
	ick (A9) (LRR P, T		Mari (F10) (L		(MI DA 4	54)	Other (Expla	ain in Remarks)
	d Below Dark Surfa ark Surface (A12)	ice (A11)	Depleted Oct		•		T) ³ Indicators	of hydrophytic vegetation and
ı =	rairie Redox (A16)	(MLRA 150A	=				•	nydrology must be present,
	Mucky Mineral (S1)		Delta Ochric			, -,		sturbed or problematic.
Sandy G	Sleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 15	60A, 150B))	
	Redox (S5)		Piedmont Flo			•	•	
	Matrix (S6)	O T II)	Anomalous B	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D	D)
	rface (S7) (LRR P, Layer (if observed						1	
Type:	Layer (II observed	η.						
	ches):		_				Hydric Soil Press	ent? Yes No <u>√</u>
Remarks:	CI1C3).						Tiyane con ries	163 NO V
Hydric soil no	ot present							

Project/Site: 1461 Edge Lowman	City/County: Wa	ashington	Sampling Date: 2020-03-15
Applicant/Owner: Edge Lowman			Sampling Point: UP2150
Investigator(s):	Section, Townshi	p, Range: Jackson	
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): P 135 Lat:	Local Teller (conce	Long:	Datum: WGS 84
Soil Map Unit Name: BaB			
		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this tin			
Are Vegetation, Soil, or Hydrology sign		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing sampling po	int locations, transects	, important features, etc.
Hydrophytic Vogotation Procent?	1		
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _	√ Is the San	npled Area	,
Wetland Hydrology Present? Yes No	√ within a W	Vetland? Yes	No✓
Remarks:			
Upland sample point UP2150			
HYDROLOGY		0	
Wetland Hydrology Indicators:	l amph à		etors (minimum of two required)
Primary Indicators (minimum of one is required; check all that		Surface Soil	
Surface Water (A1) Aquatic Fau High Water Table (A2) Marl Depos	sits (B15) (LRR U)	Drainage Pa	getated Concave Surface (B8)
	Sulfide Odor (C1)	Moss Trim Li	
	hizospheres along Living		Water Table (C2)
	of Reduced Iron (C4)	Crayfish Bur	i i
Drift Deposits (B3)	Reduction in Tilled Soils	(C6) Saturation V	sible on Aerial Imagery (C9)
	Surface (C7)	_	Position (D2)
	lain in Remarks)	Shallow Aqu	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	· ·
		Spnagnum n	noss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth	(inches):		
Water Table Present? Yes No ✓ Depth			
Saturation Present? Yes No ✓ Depth		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aeri	ai pnotos, previous inspec	ctions), if available:	
Remarks:			
Hydrology not present			

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

Tree Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1. Bouteloua dactyloides

2. Eupatorium capillifolium

3. Ranunculus fascicularis

Nothoscordum bivalve

4. Trifolium repens

Sampling Point: UP2150 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 1 (A) **Total Number of Dominant** 0 4 ___ (B) Species Across All Strata: 0 Percent of Dominant Species That Are OBL, FACW, or FAC: 25 ___(A/B) Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species 50% of total cover: __ 20% of total cover: ___ ___ x 3 = 45 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r) ___ x 4 = 340 85 FACU species __ x 5 = 0 **UPL** species Column Totals: 100 (A) Prevalence Index = B/A = 3.9Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 0 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. **FACU** 1 Definitions of Four Vegetation Strata: 15 1 **FAC** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 15 **FACU** more in diameter at breast height (DBH), regardless of 10 FACU height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 0 of size, and woody plants less than 3.28 ft tall. 0 Woody vine - All woody vines greater than 3.28 ft in 0 height. 100% = Total Cover 50% of total cover: 50 20% of total cover: 20 0 **Hydrophytic** = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below).
lydronhyti	c vegetation r	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	n the absence of in	ndicators.)
Depth	Matrix			x Features		. 3		
(inches)	Color (moist)	_ <u>%</u> _	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/3	100					Loamy sand	
-								
-								
	oncentration, D=De					ains.		Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all L	_					Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					(A9) (LRR O)
Black Hi	oipedon (A2)		Thin Dark Su Loamy Muck					(A10) (LRR S) Tertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			(0)		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mar	•	/			Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		6)		(MLRA 1	
	icky Mineral (A7) (L		Depleted Dar	k Surface	(F7)			t Material (TF2)
	esence (A8) (LRR		Redox Depre		3)			ow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Expl	lain in Remarks)
_	d Below Dark Surfa	ce (A11)	Depleted Oct		•		T) 31	
_	ark Surface (A12) rairie Redox (A16) ((MI DA 150A)	☐ Iron-Mangan				•	s of hydrophytic vegetation and hydrology must be present,
	lucky Mineral (S1)		Delta Ochric			, 0)		disturbed or problematic.
_	Bleyed Matrix (S4)	(2.111 0, 0)	Reduced Ver			0A, 150B)		notarized or problematic.
	Redox (S5)		Piedmont Flo					
Stripped	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	RA 149A, 153C, 153	BD)
	rface (S7) (LRR P,							
	_ayer (if observed):						
Type:								
	ches):		_				Hydric Soil Pres	sent? Yes No <u>√</u>
Remarks: Hydric soil no	ot present							
Tryuno son ne	n prosent							

Project/Site: 1461 Edge Lowman	City/County: W	ashington	Sampling Date: 2020-03-16
Applicant/Owner: Edge Lowman			Sampling Point: UP2151/UP2152/UP2153/L
Investigator(s)	Section Townsh	ip, Range: Frankville	
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): <u>none</u>	Slope (%):_0
Subregion (LRR or MLRA): P 135 Lat:	Local Teller (cond	Long:	Datum: WGS 84
Soil Map Unit Name: ArF			
•		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation, Soil, or Hydrology significant		Are "Normal Circumstances"	
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling po	oint locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No			
Hydric Soil Present? Yes No ✓	I	mpled Area	/
Wetland Hydrology Present? Yes No _✓	within a \	Wetland? Yes	No✓
Remarks:			
Upland sample point UP2151/ UP5152/UP2153/UP2154/UP1120/UF	'1124		
LIVEROLOGY			
HYDROLOGY Western Hydrology Indicators		Cocondon India	otors (minimum of two required)
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			I Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B	•		egetated Concave Surface (B8) atterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim	
	heres along Living		Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bu	· ·
	ction in Tilled Soils	= '	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aq	uitard (D3)
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	al Test (D5)
Water-Stained Leaves (B9)		<u></u> Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No ✓ Depth (inchestation Present)			-10 V-1
Saturation Present? Yes No ✓ _ Depth (incher (includes capillary fringe)	3):	Wetland Hydrology Prese	nt? Yes No <u></u>
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspe	ections), if available:	
Remarks:			
Hydrology not present			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Liquidambar styraciflua	15		FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Carpinus caroliniana	10		FAC	Total Number of Dominant
3. Pinus taeda	10	✓	FAC	Species Across All Strata: 8 (B)
4. Magnolia grandiflora	5		FAC	Percent of Dominant Species
5. Ostrya virginiana	5		FACU	That Are OBL, FACW, or FAC: 75 (A/B)
6	0			Prevalence Index worksheet:
7	0			
8	0			Total % Cover of: Multiply by: OBL species 0 x 1 = 0
	45% =	Total Cov	er	ODE species x 1 =
50% of total cover: <u>23</u>	20% of	total cover:	9	FACW species $\frac{0}{75}$ $\times 2 = \frac{0}{225}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 75 x 3 = 225
1. Liquidambar styraciflua	15	✓	FAC	FACU species 25 x 4 = 100
2. Carpinus caroliniana	10	✓	FAC	UPL species $0 \times 5 = 0$
3. Cornus florida	10	✓	FACU	Column Totals: <u>100</u> (A) <u>325</u> (B)
4. Ilex opaca	10	✓	FAC	Prevalence Index = B/A = 3.3
5. Ostrya virginiana	10	✓	FACU	Hydrophytic Vegetation Indicators:
6.	0			1 - Rapid Test for Hydrophytic Vegetation
7.	0			2 - Dominance Test is >50%
8.	0			3 - Prevalence Index is ≤3.0¹
	55% =	Total Cov	er	l =
50% of total cover: 28	20% of			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30ft r)		total cover.		
	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	0			
2	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			negit.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1.	0			
2.	0			
3.	0			
4	0			
5.	0			Lhudrombutio
		Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes _ ✓ No
		total cover.		
Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation present	w).			
Hydrophytic vegetation present				

SOIL Sampling Point: UP2151/UP2152/UP215

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 - 20 10YR 4/3 100		Loamy sand
-		
1Type: C=Consentration D=Depletion BM=	Badward Matrix MS-Marked Sand Crains	21 continue DI - Doro Lining M-Matrix
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I		² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
l <u> </u>		
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U)	J)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	19A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	RA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Type:	_	
Depth (inches):		Hydric Soil Present? Yes No✓
Remarks:		
Hydric soil not present		

Project/Site: 1461 Edge Lowman	City/County; Choctaw	Sampling Date: 2020-03-16
Applicant/Owner: Edge Lowman		Sampling Point: UP2155
• •	ection, Township, Range: Gilbertown	
	ocal relief (concave, convex, none):none	Slope (%): 0
Subregion (LRR or MLRA): P 135 Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: OKA	NWI classificat	
•		
Are climatic / hydrologic conditions on the site typical for this time of year		
Are Vegetation, Soil, or Hydrology significantly d		
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No✓		
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area	/
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes	No✓
Remarks:		
Upland sample point UP2155		
LIVER OF COMMENT OF CO		
HYDROLOGY	Consider Indian	and (main income of tops and main all)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary indicate Soil (tors (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)		etated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B15)	_	• • •
Saturation (A3) Hydrogen Sulfide Od Hydrogen Sulfide Od		
		Vater Table (C2)
Sediment Deposits (B2)		· ·
Drift Deposits (B3)	on in Tilled Soils (C6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic F	Position (D2)
Iron Deposits (B5) Uther (Explain in Rei	<u> </u>	· ·
Inundation Vis ble on Aerial Imagery (B7)	FAC-Neutral	` '
Water-Stained Leaves (B9)	☐ Sphagnum m	oss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No _ ✓ Depth (inches): Water Table Present? Yes No _ ✓ Depth (inches):	• • • • • • • • • • • • • • • • • • •	
Saturation Present? Yes No V Depth (inches):	• • • • • • • • • • • • • • • • • • •	t? Yes No ✓
(includes capillary fringe)		res No_ <u>-</u> -
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:	
Remarks:		
Hydrology not present		

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

50% of total cover:

50% of total cover:

50% of total cover: 50

50% of total cover:

0

0

0

0

0

0

0

0

0

✓

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r)

Herb Stratum (Plot size: 30 ft r)

1 Bouteloua dactyloides

3. Trifolium repens

2. Ranunculus fascicularis

Sampling Point: UP2155 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: 1 (A) **Total Number of Dominant** 3 (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: ___ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species __ 20% of total cover: ___ ___ x 3 = 60 FAC species x 4 = 320 80 FACU species __ x 5 = 0 **UPL** species Column Totals: 100 (A) Prevalence Index = B/A = 3.8Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 20% of total cover: ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. FAC **Definitions of Four Vegetation Strata:** / **FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 100% = Total Cover 20% of total cover: 20 **Hydrophytic** = Total Cover Vegetation Yes ____ No _ ✓ Present? 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below).
lydrophyti	c vegetation r	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desci	iption: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirn	n the absence o	f indicato	rs.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	10YR 4/3	100					Sandy loam			
l — -										
_										_
¹Typo: C=Co	ncentration, D=De	plotion PM-P	Poduced Matrix M	S-Macked	Sand Cr	oine	² Location: [DI = Doro Li	ning, M=Matri	
	ndicators: (Appli					airis.			natic Hydric :	
Histosol (cable to all E	Polyvalue Be			DD S T I		ıck (A9) (L	-	
· ==	pedon (A2)		Thin Dark Su					ick (A9) (L ick (A10) (
Black His			Loamy Muck							/ILRA 150A,B)
	Sulfide (A4)		Loamy Gleye			(0)				(LRR P, S, T)
	Layers (A5)		Depleted Ma		_/				Loamy Soils (I	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			A 153B)	200, 000 (
	cky Mineral (A7) (L		Depleted Da					ent Materi	al (TF2)	
	sence (A8) (LRR		Redox Depre						Surface (TF1	2)
	k (A9) (LRR P, T)		Marl (F10) (L	_RR U)			Other (E	xplain in F	Remarks)	
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) (MLRA 1	51)				
	rk Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³Indica	tors of hyd	rophytic veget	ation and
	airie Redox (A16)		Umbric Surfa	ace (F13) (I	LRR P, T	, U)		-	gy must be pr	
_	ucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbe	d or problema	tic.
	eyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (F20) (MLR	RA 149A, 153C,	153D)		
	face (S7) (LRR P,	•								
	ayer (if observed):								
Type:			_							
Depth (inc	hes):						Hydric Soil F	resent?	Yes	No <u>✓</u>
Remarks:										
Hydric soil no	present									

Project/Site: 1461 Edge Lowman	City/County: Cho	ctaw	Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman	_ , , ,		Sampling Point: UP2156/UP2157
Investigator(s):	Section, Township,	Range: Gilbertown	
Landform (hillslope, terrace, etc.): Upland, Flat		e, convex, none): none	Slope (%):_0
Subregion (LRR or MLRA): P 135 Lat		Long	Datum: WGS 84
Soil Map Unit Name: IzA		NWI classification	
•	funano Van V		
Are climatic / hydrologic conditions on the site typical for this time o			
Are Vegetation, Soil, or Hydrology signification		re "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology naturally	problematic? (I	lf needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ng sampling poir	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Ves No. V			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Samp		,
Wetland Hydrology Present? Yes No ✓	within a We	etland? Yes	No✓
Remarks:			
Upland sample point UP2155			
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that app		Surface Soil (
Surface Water (A1) Aquatic Fauna			etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (I		Drainage Pat	
Saturation (A3) Hydrogen Sulfice Water Marks (B1) Oxidized Rhizos	spheres along Living Ro	Moss Trim Lin	Nater Table (C2)
Sediment Deposits (B2) Presence of Re		Crayfish Burn	
	duction in Tilled Soils (0	= '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa		Geomorphic	
Iron Deposits (B5) Other (Explain i	n Remarks)	Shallow Aquit	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No ✓ Depth (inch			
Water Table Present? Yes No ✓ _ Depth (incl			
Saturation Present? Yes No ✓ _ Depth (includes capillary fringe)	ies):	Wetland Hydrology Present	t? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring well, aerial pl	otos, previous inspecti	ions), if available:	
Remarks: Hydrology not present			

VEGETATION (Four Strata) – Use scientific names of pla
--

Sampling Point: UP2156/UP2157

20 ft s			t Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 ft r)		Species'	? Status	Number of Dominant Species			
1	0			That Are OBL, FACW, or FAC: 1 (A)			
2	0			Total Number of Dominant			
3	0			Species Across All Strata: 3 (B)			
4	0						
5.	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)			
	0			That Are OBL, FACW, or FAC: 33 (A/B))		
6	0			Prevalence Index worksheet:	_		
7	- 0			Total % Cover of: Multiply by:			
8				OBL species 0 x 1 = 0			
		= Total Co	ver	FACW species 0 x 2 = 0			
50% of total cover:	20% of	total cove	r:	FAC species 20 x 3 = 60			
Sapling/Shrub Stratum (Plot size: 30 ft r)							
1	0			17.00 000000 X -			
2	0			UPL species $0 \times 5 = 0$			
3.	0			Column Totals: 100 (A) 380 (B)			
	0						
4	0			Prevalence Index = B/A = 3.8			
5	- 0			Hydrophytic Vegetation Indicators:			
6				1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8	0			3 - Prevalence Index is ≤3.0 ¹			
	:	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)			
50% of total cover:	20% of	total cove	r:	- resistants right regentation (Explain)			
Herb Stratum (Plot size: 30 ft r)				11-dicators of hydric call and watered hydrology much			
1. Bouteloua dactyloides	60	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2. Ranunculus fascicularis	20		FAC	Definitions of Four Vegetation Strata:			
3. Trifolium repens	20		FACU	Definitions of Four vegetation Strata.			
			TACO	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4	0			more in diameter at breast height (DBH), regardless			
5	0			height.			
6	0			Sapling/Shrub - Woody plants, excluding vines, less			
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8.	0			Howh All harbacous (non woods) planta regardless			
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
10.	0			, p			
	0			Woody vine – All woody vines greater than 3.28 ft in			
11	0			height.			
12							
		= Total Co			_		
50% of total cover: 50	20% of	total cove	r: <u>20</u>				
Woody Vine Stratum (Plot size: 30 ft r)							
1	0						
2.	0						
3.	0						
	0						
4	0						
5				Hydrophytic			
		= Total Co	ver	Vegetation Present? Yes No✓			
50% of total cover:	20% of	total cove	r:	resent: resNo			
Remarks: (If observed, list morphological adaptations bel	ow).			•			
Hydrophytic vegetation not present							

SOIL Sampling Point: UP2156/UP2157

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	x Feature:	S Type ¹	Loc ²	Texture	Remarks
(inches) 0 - 20	10YR 4/3	<u>%</u>	Color (moist)	<u>%</u>	Type	LOC	Sandy loam	Remarks
	101 K 4/3						Sandy loani	
_								
-								
-								
								
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	wise not	ed.)		Indicators for	r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) 🔲 1 cm Muc	k (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)
	stic (A3)		Loamy Mucky			R O)		Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		-0\			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark S				☐ (MLRA	nt Material (TF2)
	icky Mineral (A7) (L esence (A8) (LRR		Depleted Dar					llow Dark Surface (TF12)
	ick (A9) (LRR P, T)	•	Mari (F10) (L		0)			plain in Remarks)
_	d Below Dark Surfa		Depleted Och		(MLRA 1	51)		plant in remarkey
	ark Surface (A12)	` ,	Iron-Mangane				T) ³ Indicate	ors of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	', U)	wetlan	nd hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Sleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo			•	•	500)
	Matrix (S6) rface (S7) (LRR P,	C T III	Anomalous B	right Loai	ny Solls (F20) (MLR	RA 149A, 153C, 1	53D)
	Layer (if observed						T	
Type:	Layer (ii observed	/·						
—	ches):		_				Hudric Soil Pr	esent? Yes No✓
							Hydric Soil Pr	esentr resNo
Remarks: Hydric soil no	ot present							
,	, process							

Project/Site: 1461 Edge Lowman	_ City/County: Cho	octaw	Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman			Sampling Point: UP2158/UP2159
Investigator(s):	Section Township	, _{Range:} Gilbertown	
Landform (hillslope, terrace, etc.): Upland, Flat	_	ve, convex, none): none	Slope (%): 0
D 425	Local Teller (concav		Datum: WGS 84
		Long:	
Soil Map Unit Name: IZA		NWI classifica	<u>'</u>
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant	ly disturbed?	Are "Normal Circumstances" p	oresent? YesNo
Are Vegetation, Soil, or Hydrology naturally p	roblematic? ((If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ıg sampling poi	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No _ ✓			
Hydric Soil Present? Yes No ✓	ls the Sam	-	
Wetland Hydrology Present? Yes No ✓	within a We	etland? Yes	No✓
Remarks:			
Upland sample point UP2158/UP2159			
LIVERGLOOV			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		Surface Soil	
Surface Water (A1) Aquatic Fauna (E		Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	pheres along Living R		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	· ·
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation V	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	æ (C7)	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aqu	· '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
		<u> </u>	noss (D8) (LRR T, U)
Surface Water Present? Yes No _ ✓ Depth (inche	20):		
Water Table Present? Yes No _ ✓ Depth (inche	· ·		
Saturation Present? Yes No V Depth (inche		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			10 1
Describe Recorded Data (stream gauge, monitoring well, aerial pho	itos, previous inspect	tions), if available:	
Remarks: Hydrology not present			
Hydrology not present			

Sampling	Point:	UP2158/UP2159

- 30 ft r			Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species	? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1	0			That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant Species Across All Strata: 3 (B)
3	0			Species Across All Strata: 3 (B)
4	- 0		· ——	Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 33 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0			OBL species $0 \times 1 = 0$
		Total Co		FACW species 0 x 2 = 0
50% of total cover:	20% of	total cove	r:	FAC species 20 x 3 = 60
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 80 x 4 = 320
1				
2	0			OF L species X 3 =
3	0			Column Totals: 100 (A) 380 (B)
4	0			Prevalence Index = B/A = 3.8
5				Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0¹
		= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r:	Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30 ft r)				Indicators of hydric call and watland hydrology must
1. Bouteloua dactyloides	60	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Ranunculus fascicularis	20	√	FAC	Definitions of Four Vegetation Strata:
3. Trifolium repens	20		FACU	_
	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			diano in Derrana greater than 6.20 it (1 m) tall
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	- 0			of size, and woody plants less than 3.28 ft tall.
10	- 0			Woody vine - All woody vines greater than 3.28 ft in
11	- 0			height.
12				
50		= Total Co		
50% of total cover: <u>50</u>	20% of	total cove	r: <u>20</u>	
Woody Vine Stratum (Plot size: 30 ft r)	•			
1	- 0			
2				
3	0			
4	0			
5	0			Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	r:	Present? Yes No
Remarks: (If observed, list morphological adaptations bel	ow).			1
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present	ow).			

SOIL Sampling Point: UP2158/UP2159

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	x Feature:	S Type ¹	Loc ²	Texture	Remarks
(inches) 0 - 20	10YR 4/3	<u>%</u>	Color (moist)	<u>%</u>	Type	LOC	Sandy loam	Remarks
	101 K 4/3						Sandy loani	
_								
-								
-								
								
¹ Type: C=Co	oncentration, D=De	pletion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	wise not	ed.)		Indicators for	r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) 🔲 1 cm Muc	k (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Su					k (A10) (LRR S)
	stic (A3)		Loamy Mucky			R O)		Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat		-0\			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark S				☐ (MLRA	nt Material (TF2)
	icky Mineral (A7) (L esence (A8) (LRR		Depleted Dar					llow Dark Surface (TF12)
	ick (A9) (LRR P, T)	•	Mari (F10) (L		0)			plain in Remarks)
_	d Below Dark Surfa		Depleted Och		(MLRA 1	51)		plant in remarkey
	ark Surface (A12)	` ,	Iron-Mangane				T) ³ Indicate	ors of hydrophytic vegetation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	', U)	wetlan	nd hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.
	Sleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo			•	•	500)
	Matrix (S6) rface (S7) (LRR P,	C T III	Anomalous B	right Loai	ny Solls (F20) (MLR	RA 149A, 153C, 1	53D)
	Layer (if observed						T	
Type:	Layer (ii observed	/·						
—	ches):		_				Hudric Soil Pr	esent? Yes No✓
							Hydric Soil Pr	esentr resNo
Remarks: Hydric soil no	ot present							
,	, process							

Project/Site: 1461 Edge Lowman	City/County: Wa	ashington	Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman			Sampling Point: UP2160
Investigator(s):	Section Township	p, Range: Frankville	
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): <u>none</u>	Slope (%):_ 0
D 405	_ Local Teller (Collect		Datum: WGS 84
		_Long:	
Soil Map Unit Name: ByF2		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant	ly disturbed?	Are "Normal Circumstances"	present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ıg sampling po	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No✓			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	- Is the San	npled Area	
Wetland Hydrology Present? Yes No✓	within a W	vetland? Yes	No✓_
Remarks:			
Upland sample point W2160			
LIVERGLOOV			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply			Cracks (B6)
Surface Water (A1) Aquatic Fauna (E		Drainage Pa	getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	pheres along Living I		Water Table (C2)
Sediment Deposits (B2)		Crayfish Bur	· ·
Drift Deposits (B3)	action in Tilled Soils	(C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7)	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aqu	
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutra	` '
Water-Stained Leaves (B9)		<u> </u>	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _✓ Depth (inches	·•):		
Water Table Present? Yes No _ ✓ Depth (inche			
Saturation Present? Yes No V Depth (inche		Wetland Hydrology Preser	nt? Yes No ✓
(includes capillary fringe)			11. 163 NO 1
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspe	ctions), if available:	
Remarks: Hydrology not present			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

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

50% of total cover: 13

50% of total cover: 13

50% of total cover: 25

15

10

0

0

0

0

0

0

5

0

0

0

0

✓

Tree Stratum (Plot size: 30 ft r)

Sapling/Shrub Stratum (Plot size: 30 ft r

1. Pinus taeda

2. Liquidambar styraciflua

1. Juniperus virginiana

Herb Stratum (Plot size:30 ft r

1. Bouteloua dactyloides

3. Andropogon gerardii

4 Eupatorium capillifolium

5. Nothoscordum bivalve

2. Trifolium repens

2. Morella cerifera

Sampling Point: UP2160 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** FAC That Are OBL, FACW, or FAC: 3 ____ (A) FAC **Total Number of Dominant** 6 ___ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0 **OBL** species = Total Cover x 2 = 0 **FACW** species _ 20% of total cover: 5 40 x 3 = 120 **FAC species** __ x 4 = 240 60 FACU species **FACU** __ x 5 = 0 **UPL** species FAC Column Totals: 100 (A) Prevalence Index = B/A = 3.6Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 20% of total cover: 5 ¹Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. **FACU** Definitions of Four Vegetation Strata: **FAC** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or **FACU** more in diameter at breast height (DBH), regardless of FACU height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 50% = Total Cover 20% of total cover: 10 **Hydrophytic** = Total Cover Vegetation Yes ____ No _ ✓ Present? 50% of total cover: 20% of total cover:

Remarks:	(If observed,	list morphological	adaptations	below)
-lydrophyti	c vegetation r	not present		

Woody Vine Stratum (Plot size: 30 ft r)

Profile Desci	iption: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirn	n the absence of	f indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 4/2	100					Clay loam		
l — -									
_									
¹Typo: C=Co	ncentration, D=De	plotion PM-P	Poduced Matrix M	S-Masked	Sand Cr	nine	² Location: B	L=Pore Lining, M=Mat	riv
	ndicators: (Appli					airis.		or Problematic Hydric	
l		cable to all Li	_			DD C T I	_	ck (A9) (LRR O)	Jons .
Histosol (pedon (A2)		Polyvalue Be				_	ck (A9) (LRR 0)	
Black His			Loamy Muck					l Vertic (F18) (outside	MI RA 1504 B)
	Sulfide (A4)		Loamy Gleye	•		(0)		it Floodplain Soils (F19	
	Layers (A5)		Depleted Ma		_/			ous Bright Loamy Soils	
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			(153B)	(. 20)
	cky Mineral (A7) (L		Depleted Da					ent Material (TF2)	
	sence (A8) (LRR		Redox Depre					allow Dark Surface (TF	12)
	k (A9) (LRR P, T)		Marl (F10) (L		•			xplain in Remarks)	•
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) (MLRA 1	51)			
	rk Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indicat	ors of hydrophytic veg	etation and
	airie Redox (A16)		Umbric Surfa	ace (F13) (I	LRR P, T	, U)		nd hydrology must be រុ	_
_	ucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	eyed Matrix (S4)		Reduced Ve						
	edox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (F20) (MLR	RA 149A, 153C, 1	(53D)	
	face (S7) (LRR P,	•							
	ayer (if observed):							
Type:			_						
Depth (inc	hes):						Hydric Soil P	resent? Yes	_ No <u> </u>
Remarks:									
Hydric soil no	present								

Project/Site: 1461 Edge Lowman	City/C	County: Washington		Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman				Sampling Point: UP2161
Investigator(s):	Section	n, Township, Range: Fi		
Landform (hillslope, terrace, etc.): Upland, Flat		relief (concave, convex.		Slope (%): 0
Subregion (LRR or MLRA): P 135	Lat:	Long:	Honey: Hone	Datum: WGS 84
Soil Map Unit Name: PSF	_ Lat.	Long.	NIVA (I also alifa a	
		<i>J</i>	NWI classifica	
Are climatic / hydrologic conditions on the site typical for				
Are Vegetation, Soil, or Hydrology				resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology	_ naturally problema	tic? (If needed, e	explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing sam	pling point location	ons, transects	, important features, etc.
Library houting Variation Decounts	No. of			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No _ ✓	Is the Sampled Area		,
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No ✓	within a Wetland?	Yes	No✓
Remarks:				
Upland sample point UP2161				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check a			Surface Soil	* *
	itic Fauna (B13)			etated Concave Surface (B8)
	Deposits (B15) (LRR		Drainage Pat	, ,
	ogen Sulfide Odor (C	(1) long Living Roots (C3)	Moss Trim Li	, ,
	ence of Reduced Iror		Crayfish Burn	Nater Table (C2)
	ent Iron Reduction in		= '	sible on Aerial Imagery (C9)
	Muck Surface (C7)		Geomorphic	• • • •
Iron Deposits (B5)	r (Explain in Remarks	s)	Shallow Aqui	tard (D3)
Inundation Vis ble on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)			Sphagnum m	loss (D8) (LRR T, U)
Field Observations:	D - 11 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
Surface Water Present? Yes No				
Water Table Present? Yes No ✓			landarda ara Barana	10 Vaa Na /
Saturation Present? Yes No _✓_ (includes capillary fringe)	Depth (inches):	vvetiand F	iyarology Presen	t? Yes No_ <u>√</u>
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, prev	vious inspections), if ava	ilable:	
Paranta				
Remarks: Hydrology not present				

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

Sampling Point: UP2161

Tree Stratum (Plot size: 30 ft r)		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 π Γ) 1. Pinus taeda	<u>% Cover</u>	Species? ✓	FAC	Number of Dominant Species	• .
2 Liquidambar styraciflua	10		FAC	That Are OBL, FACW, or FAC: 4	A)
	0		170	Total Number of Dominant	
3	- 0			Species Across All Strata: 9 (E	В)
4				Percent of Dominant Species	
5	_ 0				A/B)
6	_ 0			Prevalence Index worksheet:	
7	0				
8	0			Total % Cover of: Multiply by: OBL species 0 v.1 = 0	
	50% :	= Total Cov	er	OBL species x 1 =	
50% of total cover: 25	20% of	total cover:	10		
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 65 x 3 = 195	
1. Juniperus virginiana	15	✓	FACU	FACU species $\frac{35}{9}$ x 4 = $\frac{140}{9}$	
2. Morella cerifera	10	✓	FAC	UPL species 0 x 5 = 0	
3.	0			Column Totals: 100 (A) 335	(B)
4	0			Decoder as Index - B/A - 3.4	
5	0			Prevalence Index = B/A = 3.4	
	0			Hydrophytic Vegetation Indicators:	
6	- 0			1 - Rapid Test for Hydrophytic Vegetation	
7	- 0			2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0¹	
12		= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)	
	20% of	total cover:	5		
Herb Stratum (Plot size:30 ft r)	_			¹ Indicators of hydric soil and wetland hydrology mus	st
1. Andropogon gerardii	- 5		FAC	be present, unless disturbed or problematic.	
2. Bouteloua dactyloides			FACU	Definitions of Four Vegetation Strata:	
3. Eupatorium capillifolium	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4. Nothoscordum bivalve	5	✓	FACU	more in diameter at breast height (DBH), regardless	
5. Trifolium repens	5	✓	FACU	height.	
6	0			Sapling/Shrub – Woody plants, excluding vines, le	ess
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.	0			Harb. All harbassaus (non woods) plants, regardly	
9.	0			Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	555
10.	0				
11.	0			Woody vine – All woody vines greater than 3.28 ft height.	in
12.	0			neight.	
12.	25% :	Total Cov			
50% -64-4-1 13			_		
50% of total cover: 13	20% of	total cover			
Woody Vine Stratum (Plot size: 30 ft r)	0				
1	$-\frac{0}{0}$				
2	$-\frac{0}{0}$				
3	_ `				
4	- 0				
5	0			Hydrophytic	
		Total Cov	er	Vegetation	
50% of total cover:	20% of	total cover:		Present? Yes No✓	
Remarks: (If observed, list morphological adaptations bel	low).			1	
Hydrophytic vegetation not present	,.				
,,					

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence	of indicato	rs.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0 - 20	7.5YR 4/6	100					Clay			
-										
										
-										
17	tration D-Da	nletion DM-5	Seduced Madric M	C-Maskad	Cand Ca		21	DI - Dava I ii	ning MaMatri	
	oncentration, D=De Indicators: (Appli					ains.			ning, M=Matri natic Hydric S	
l <u> </u>		Cable to all L	_			DD C T I			-	Jons .
Histosol			Polyvalue Be					luck (A9) (L luck (A10) (l		
Black Hi	oipedon (A2)		Loamy Muck							/ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	-		(0)		,	, ,	(LRR P, S, T)
	Layers (A5)		Depleted Ma		2)				Loamy Soils (I	
	Bodies (A6) (LRR I	P. T. U)	Redox Dark		6)			RA 153B)	Louiny Cono (20)
	cky Mineral (A7) (L		Depleted Da				_ ,	rent Materia	al (TF2)	
	esence (A8) (LRR		Redox Depre						Surface (TF1	2)
	ck (A9) (LRR P, T)		Marl (F10) (L					Explain in R		
Depleted	Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)				
	ırk Surface (A12)		☐ Iron-Mangan	ese Masse	es (F12) (LRR O, P,	, T) ³ Indica	ators of hyd	rophytic veget	ation and
	rairie Redox (A16)					', U)			gy must be pr	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbed	d or problema	tic.
	leyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	face (S7) (LRR P,									
	ayer (if observed):								
Type:			_							
Depth (inc	ches):						Hydric Soil	Present?	Yes	No <u>✓</u>
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Edge Lowman	City/County: Washington	Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman		Sampling Point: UP2162
Investigator(s):	Section, Township, Range: Frankville	
	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): P 135 Lat:	Long:	Datum: WGS 84
Soil Map Unit Name: PSD	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye	,	
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro		
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No✓		
Hydric Soil Present? Yes No ✓	Is the Sampled Area	No ✓
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes	NO * _
Remarks:	·	
Upland sample point UP2162		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	
Surface Water (A1) Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15		· · · · · · · · · · · · · · · · · · ·
Saturation (A3) Hydrogen Sulfide C		
☐ Water Marks (B1) ☐ Oxidized Rhizospho	eres along Living Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	· · ·	ows (C8)
	_	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface Other (Explain in B	<u> </u>	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in R☐ Inundation Vis ble on Aerial Imagery (B7)	emarks)	` '
Water-Stained Leaves (B9)		noss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No ✓ Depth (inches)	:	
Water Table Present? Yes No _ ✓ Depth (inches)	:	
Saturation Present? Yes No ✓ _ Depth (inches)	: Wetland Hydrology Presen	nt? Yes No_ <u>√</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Remarks: Hydrology not present		
Hydrology not present		

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

Sampling Point: UP2162

Tree Stratum (Plot size: 30 ft r		Dominant		Dominance Test worksheet:
1. Pinus taeda	% Cover 25	Species? ✓	FAC	Number of Dominant Species
2 Juniperus virginiana	5		FACU	That Are OBL, FACW, or FAC: 3 (A)
3. Liquidambar styraciflua	5		FAC	Total Number of Dominant
	0		170	Species Across All Strata: 6 (B)
4				Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			Prevalence Index worksheet:
7	0			
8	0			
	35% =	Total Cov	er	OBE species X 1 =
50% of total cover: 18	20% of	total cover:	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{50}{50}$ x 3 = $\frac{150}{200}$
1. Juniperus virginiana	15	✓	FACU	FACU species $\frac{50}{2}$ $\times 4 = \frac{200}{2}$
2. Ilex vomitoria	10	✓	FAC	UPL species 0 x 5 = 0
3. Liquidambar styraciflua	10	√	FAC	Column Totals: 100 (A) 350 (B)
4 Ostrya virginiana	10	√	FACU	December 1 day - 25
5. Aesculus pavia	5		FACU	Prevalence Index = $B/A = \frac{3.5}{}$
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
25		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>25</u>	20% of	total cover:	10	
Herb Stratum (Plot size: 30 ft r)	45			¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides		✓	FACU	be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Hart All hart account (and woods) whents account
9	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in
	0			height.
12	4=04			
500/ ct		Total Cov	_	
50% of total cover: 8	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2				
3	0			
4	0			
5	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No✓
Remarks: (If observed, list morphological adaptations bel-	ow).			I.
Hydrophytic vegetation not present	,			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the ir	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			x Features		- 3			
(inches)	Color (moist)	<u> %</u> _	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	
0 - 20	7.5YR 4/4	100					Clay		
_									
l — -									
-									
¹Type: C=C	oncentration, D=De	nletion RM=F	Peduced Matrix MS	S=Macked	Sand Gr	aine	² Location: PL	=Pore Lining, M=Matrix.	
	Indicators: (Appli					airis.		r Problematic Hydric Soils ³ :	
Histosol		cable to all E	Polyvalue Be			DD S T I		k (A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su				. —	k (A10) (LRR S)	
Black Hi			Loamy Muck					Vertic (F18) (outside MLRA	150A B)
	n Sulfide (A4)		Loamy Gleye			. 0,		Floodplain Soils (F19) (LRR	
	Layers (A5)		Depleted Mar		-/			us Bright Loamy Soils (F20)	., =, .,
	Bodies (A6) (LRR I	P. T. U)	Redox Dark		6)		(MLRA		
	cky Mineral (A7) (L		Depleted Dar					nt Material (TF2)	
Muck Pr	esence (A8) (LRR	U)	Redox Depre	ssions (F8	3)		☐ Very Shal	low Dark Surface (TF12)	
1 cm Mu	ck (A9) (LRR P, T)			RR U)			Other (Ex	plain in Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Ocl	nric (F11) (MLRA 1	51)			
_	ark Surface (A12)		Iron-Mangan					ors of hydrophytic vegetation a	and
	rairie Redox (A16)					, U)		d hydrology must be present,	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					disturbed or problematic.	
	Bleyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo			•	•		
	Matrix (S6)	O T II)	Anomalous E	right Loan	ny Solls (F20) (MLR	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P, _ayer (if observed						T		
Type:	Layer (II Observed).							
—	ches):		_				Hydric Soil Pr	esent? Yes No _	1
Remarks:	Jiles).		_				riyane son Fi	esent: resNo_	<u> </u>
Hydric soil no	ot present								
,									
ı									

Project/Site: 1461 Edge Lowman	City/County: Wash	nington	Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman	, , , , , , , , , , , , , , , , , , , ,		Sampling Point: UP2163
Investigator(s):	Section, Township, F		
Landform (hillslope, terrace, etc.): Upland		e, convex, none): none	Slope (%):0
Subregion (LRR or MLRA): P 135 Lat		Long:	Datum: WGS 84
Soil Map Unit Name: PSF			
		NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly		re "Normal Circumstances" pi	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	յ sampling point	t locations, transects,	important features, etc.
Lhydrophytic Vegetation Present? Veg No V			
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sample		,
Wetland Hydrology Present? Yes No ✓	within a Wet	land? Yes	No✓
Remarks:			
Upland sample point UP2163			
HYDROLOGY			
Wetland Hydrology Indicators:			cors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (
Surface Water (A1) Aquatic Fauna (B1) Mad Deposite (B4)	•		etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide (Drainage Patt Moss Trim Lir	
	neres along Living Roo		Vater Table (C2)
Sediment Deposits (B2)		Crayfish Burro	· ·
Drift Deposits (B3)	ction in Tilled Soils (Ce	6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	; (C7)	Geomorphic F	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F	(emarks)	Shallow Aquit	` '
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral	
		<u>□</u> Sphagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes No ✓ Depth (inches	۸۰.		
Water Table Present? Yes No _ ✓ Depth (inches			
Saturation Present? Yes No ✓ Depth (inches		Wetland Hydrology Present	t? Yes No ✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspectio	ons), if available:	
Remarks:			
Hydrology not present			

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

Sampling Point: UP2163

Tree Stratum (Plot size: 30 ft r		Dominant		Dominance Test worksheet:
1. Pinus taeda		Species?	FAC	Number of Dominant Species
	_ 25			That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	_ 5		FACU	Total Number of Dominant
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: 6 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			
	35% =	= Total Cov	er	OBE species X 1 =
50% of total cover: 18	20% of	total cover	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 x 3 = 150
1. Juniperus virginiana	15	✓	FACU	FACU species 50 x 4 = 200
2. Ilex vomitoria	10	<u> </u>	FAC	UPL species 0 x 5 = 0
3. Liquidambar styraciflua	10	√	FAC	Column Totals: 100 (A) 350 (B)
4. Ostrya virginiana	10		FACU	5,4 3,5
5. Aesculus pavia	5		FACU	Prevalence Index = $B/A = 3.5$
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	- 0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
25		Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>25</u>	20% of	total cover	10	
Herb Stratum (Plot size: 30ft r)	45			¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides		✓	FACU	be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			
	15% =	Total Cov		
50% of total cover: 8		total cover		
Woody Vine Stratum (Plot size: 30 ft r)		total cover		
	0			
1	0			
2	0			
3	- 0			
4	- 0			
5	_ —			Hydrophytic
		Total Cov		Vegetation Present? Yes No✓_
50% of total cover:	20% of	total cover		resent: res No
Remarks: (If observed, list morphological adaptations bel	ow).			
Hydrophytic vegetation not present				

Profile Descript	ion: (Describe	to the depth	needed to docu	ument the i	ndicator	or confirm	n the absence o	f indicato	rs.)	
Depth	Matrix			lox Features						
	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-20 10	YR 4/2	100					Sandy clay			
 -										
_										_
¹Type: C=Conce	entration D=De	pletion PM=P	Peduced Matrix N	4S=Masked	Sand Gr	nine	² Location: F	DI = Doro Li	ning, M=Matri	
Hydric Soil Indi						allis.			natic Hydric	
Histosol (A1)		cable to all El	Polyvalue E			DD S T I		ıck (A9) (L	-	
Histic Epiped			Thin Dark S					ick (A9) (L ick (A10) (
Black Histic	, ,			ky Mineral						/ILRA 150A,B)
Hydrogen St			Loamy Gley	•		(0)				(LRR P, S, T)
Stratified Lay			Depleted M		/				Loamy Soils (
_	ies (A6) (LRR I	P. T. U)		k Surface (F	6)			A 153B)		0,
	Mineral (A7) (L		=	ark Surface				ent Materi	al (TF2)	
•	nce (A8) (LRR			ressions (F					Surface (TF1	2)
	A9) (LRR P, T)		Marl (F10)		•			xplain in F		,
Depleted Be	low Dark Surfa	ce (A11)	Depleted O	chric (F11)	(MLRA 1	51)				
	Surface (A12)			nese Masse	es (F12) (LRR O, P,	, T) ³Indica	tors of hyd	rophytic vege	tation and
	e Redox (A16) (Umbric Sur	face (F13) (LRR P, T	, U)	wetla	nd hydrolo	ogy must be pr	resent,
	y Mineral (S1)	(LRR O, S)		c (F17) (ML				s disturbe	d or problema	tic.
	ed Matrix (S4)			ertic (F18) (
Sandy Redo			Piedmont F							
Stripped Mat			Anomalous	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	(S7) (LRR P,									
Restrictive Laye	er (if observed):								
Type:	_		_							
Depth (inches	s):						Hydric Soil F	resent?	Yes	No <u> </u>
Remarks:										
Hydric soil not pre	esent									

Project/Site: 1461 Edge Lowman	City/Co	ounty <u>.</u> Washington		Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman				Sampling Point: UP2164/UP2165
Investigator(s):	Section	, Township, Range: Fr		
Landform (hillslope, terrace, etc.): Upland, Hillslope		elief (concave, convex,		Slope (%): 0
D 405		Long:	none). <u>none</u>	Datum: WGS 84
Soil Map Unit Name: PoB	.at:	Long:	A11A0 - 1	
· · · · · · · · · · · · · · · · · · ·		1	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this	_			
Are Vegetation, Soil, or Hydrology s			Circumstances" p	resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology r	naturally problemation	c? (If needed, e	xplain any answer	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing samp	oling point location	ns, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes N	10 1			
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N	lo 🗸	s the Sampled Area		/
Wetland Hydrology Present? Yes N	lo 🗸	within a Wetland?	Yes	No✓
Remarks:				
Upland sample point UP2164/UP2165				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)		Surface Soil	
	Fauna (B13)			etated Concave Surface (B8)
	eposits (B15) (LRR l	U)	Drainage Pat	
	en Sulfide Odor (C1		Moss Trim Li	, ,
	, ,	ng Living Roots (C3)		Nater Table (C2)
Sediment Deposits (B2)	ce of Reduced Iron ((C4)	Crayfish Burn	ows (C8)
	Iron Reduction in Ti	illed Soils (C6)	_	sible on Aerial Imagery (C9)
	uck Surface (C7)		Geomorphic	, ,
	Explain in Remarks))	Shallow Aqui	` '
Inundation Vis ble on Aerial Imagery (B7) Water-Stained Leaves (B9)			FAC-Neutral	loss (D8) (LRR T, U)
Field Observations:		<u> </u>	Opilagilalii III	loss (DO) (ERRY 1, O)
Surface Water Present? Yes No _✓_ De	pth (inches):			
Water Table Present? Yes No _✓ De				
Saturation Present? Yes No _ ✓ De			ydrology Presen	t? Yes No_ <u>√</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, a			ilable:	
Describe Recorded Data (stream gauge, monitoring wen,	aeriai priotos, previo	ous inspections), il ava	nable.	
Remarks: Hydrology not present				
Hydrology not present				

Sampling	Point:	UP2164/UP2165

1. Pinus taeda 25 2. Juniperus virginiana 5 3. Liquidambar styraciflua 5 4. 0 0 5. 0 0 6. 0 0 7. 0 0 8. 0 0 50% of total cover: 18 20% 50% of total cover: 18 20% Sapling/Shrub Stratum (Plot size: 30 ft r) 1 1. Juniperus virginiana 15 2. Ilex vomitoria 10 3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50% 0	= 7 % of to	Total Cover:	FAC FACU FAC	Number of Dominant Species 3 (A) Total Number of Dominant 6 (B) Percent of Dominant Species 50 (A/I Percent of Dominant Species 50 (A/I Prevalence Index worksheet: Multiply by: (A/I OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0 Column Totals: 100 (A) 350 (B
2. Juniperus virginiana 5	% of to	Total Cover:	FACU FAC FACU FAC FAC	Total Number of Dominant Species Across All Strata: 6 (B)
3. Liquidambar styraciflua 5 4. 0 0 5. 0 0 6. 0 0 7. 8. 0 0 Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Juniperus virginiana 15 2. Ilex vomitoria 10 3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50% 50%	% of to	otal cover:	er 7 FACU FAC FAC	Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/I) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
4	% of to	otal cover:	er 7 7 FACU FAC FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 50
5.	% of to	otal cover:	FACU FAC FAC	That Are OBL, FACW, or FAC: 50 (A/I Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
6.	% of to	otal cover:	FACU FAC FAC	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
7.	% of to	otal cover:	FACU FAC FAC	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
8.	% of to	otal cover:	FACU FAC FAC	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Juniperus virginiana 15 15 16 16 16 16 16 16	% of to	otal cover:	FACU FAC FAC	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r) Juniperus virginiana	% of to	otal cover:	FACU FAC FAC	FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 50 x 4 = 200 UPL species 0 x 5 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Juniperus virginiana 15 2. Ilex vomitoria 10 3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 50% 0		√ √ √	FACU FAC	FAC species 50
1. Juniperus virginiana 15 2. İlex vomitoria 10 3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50%		√	FAC FAC	FACU species 50
2. Ilex vomitoria 10 3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50% 0		√	FAC FAC	UPL species 0 x 5 = 0
3. Liquidambar styraciflua 10 4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50%		√	FAC	Column Totals: 100 (A) 350 (B
4. Ostrya virginiana 10 5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 50% 0				()
5. Aesculus pavia 5 6. 0 0 7. 0 0 8. 0 0 50% 0		_ ✓		
6. 0 7. 0 8. 0 50%			FACU	Prevalence Index = $B/A = 3.5$
7. 0 8. 0 50%	— –		1-700	Hydrophytic Vegetation Indicators:
8. <u>0</u> 50%				1 - Rapid Test for Hydrophytic Vegetation
50%				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0¹
		Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
	% of to	tal cover:	10	
Herb Stratum (Plot size: 30 ft r) 1. Bouteloua dactyloides 15		✓	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. 0				Definitions of Four Vegetation Strata:
3. 0				_
4. 0				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
50				height.
6. 0				Sapling/Shrub – Woody plants, excluding vines, less
7. 0				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. 0				Harb All barbassaya (non woods) planta regardless
9. 0				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
10. 0				
110				Woody vine – All woody vines greater than 3.28 ft in height.
12. 0				
15%		Total Cov	er	
50% of total cover: 8 209		tal cover:	_	
Woody Vine Stratum (Plot size: 30 ft r)				
10				
2. 0				
30				
40				
5. 0				Hadaaa ka da
<u> </u>		Total Cov	er	Hydrophytic Vegetation
50% of total cover: 209				Present? Yes No✓
	70 OI 10	tai covei.		
Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation not present				

SOIL Sampling Point: UP2164/UP2165

Profile Description: (Describe to the depth needed to docum	ent the indicator or confirm	the absence of indicators.)
	Features	
	% Type ¹ Loc ²	Texture Remarks
0 - 20 10YR 4/2 100		Sandy clay
-		
— · — — — — — — — — — — — — — — — — —		
-		
Transport of the Department of	Marked Cond Coning	21 and in the December of the Manager
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS= Hydric Soil Indicators: (Applicable to all LRRs, unless otherw		² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
		_
	ow Surface (S8) (LRR S, T, U) face (S9) (LRR S, T, U)	☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S)
	Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matr		Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)		(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark		Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depres		Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LF		Other (Explain in Remarks)
	ric (F11) (MLRA 151)	
Thick Dark Surface (A12)	se Masses (F12) (LRR O, P, T	³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surfac	e (F13) (LRR P, T, U)	wetland hydrology must be present,
	F17) (MLRA 151)	unless disturbed or problematic.
	c (F18) (MLRA 150A, 150B)	
	odplain Soils (F19) (MLRA 149	•
	ight Loamy Soils (F20) (MLRA	(149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Type:		,
Depth (inches):		Hydric Soil Present? Yes No✓
Remarks:		
Hydric soil not present		

Project/Site: 1461 Edge Lowman	City/County: Washington	Sampling Date <u>:</u> 2020-03-18						
Applicant/Owner: Edge Lowman		tate: Alabama Sampling Point: UP2166						
Investigator(s)	Section, Township, Range: Fra							
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, n							
Subregion (LRR or MLRA): P 135 Lat:	Long:	Datum: WGS 84						
Soil Map Unit Name: ByB	Long.							
•		NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of ye								
Are Vegetation, Soil, or Hydrology significantly		Circumstances" present? YesNo						
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Lhydrophydia Vogastatian Procent?								
Hydrophytic Vegetation Present? Yes No ✓ Hydric Soil Present? Yes No ✓	Is the Sampled Area	,						
Wetland Hydrology Present? Yes No ✓	within a Wetland?	Yes No						
Remarks:								
Upland sample point 2166								
HYDROLOGY								
Wetland Hydrology Indicators:	\$	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)						
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)						
High Water Table (A2) Marl Deposits (B18)		Drainage Patterns (B10)						
Saturation (A3) Hydrogen Sulfide (odor (C1) eres along Living Roots (C3)	Moss Trim Lines (B16)						
☐ Water Marks (B1) ☐ Oxidized Rhizosph ☐ Sediment Deposits (B2) ☐ Presence of Reduction		Dry-Season Water Table (C2) Crayfish Burrows (C8)						
	tion in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in F	emarks)	Shallow Aquitard (D3)						
Inundation Vis ble on Aerial Imagery (B7)	ļ	FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)	<u>_</u>	Sphagnum moss (D8) (LRR T, U)						
Field Observations:								
Surface Water Present? Yes No ✓ _ Depth (inches	•							
Water Table Present? Yes No ✓ _ Depth (inches	•	to be a second of the second o						
Saturation Present? Yes No ✓ Depth (inches (includes capillary fringe)): Wetland Hy	vdrology Present? Yes No _ ✓						
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if avail	able:						
Parada								
Remarks: Hydrology not present								

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

50% of total cover: 10

Sapling/Shrub Stratum (Plot size: 30 ft r)

Tree Stratum (Plot size: 30 ft r

1. Pinus taeda

2. Quercus falcata

1. Juniperus virginiana

Sampling Point: UP2166 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: ____(A) FACU **Total Number of Dominant** 6 (B) Species Across All Strata: Percent of Dominant Species 33 That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0OBL species FACW species 0 x 2 = 0 x 3 = 60 20 FAC species x 4 = 320 80 **FACU** species **FACU**

2. Liquidambar styraciflua		10	<u> </u>	FAC	UPL species			
3.		0			Column Totals: 100 (A) 380 (B)			
4.		0			- Prevalence Index = B/A = 3.8			
5.		0			Hydrophytic Vegetation Indicators:			
6.		0						
7.		0			1 - Rapid Test for Hydrophytic Vegetation			
8.		0			2 - Dominance Test is >50%			
o		20%	= Total C	over	3 - Prevalence Index is ≤3.0¹			
	50% of total cover: 10		of total cove		Problematic Hydrophytic Vegetation ¹ (Explain)			
Herb Stratum (Plot size: 30 ft r		20%	OI lotal cove	al. <u> </u>	•			
1. Bouteloua dactyloides		25	./	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2. Trifolium repens		25		FACU				
3. Nothoscordum bivalve		10		FACU	Definitions of Four Vegetation Strata:			
		$-\frac{10}{0}$		1700	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4		$-\frac{\sigma}{\sigma}$			more in diameter at breast height (DBH), regardless of height.			
5		$-\frac{0}{0}$		_	- negric			
6		$-\frac{0}{0}$			Sapling/Shrub – Woody plants, excluding vines, less			
7		$-\frac{0}{0}$			than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8					Herb – All herbaceous (non-woody) plants, regardless			
9		_ 0			of size, and woody plants less than 3.28 ft tall.			
10		0			Woody vine – All woody vines greater than 3.28 ft in			
11		0			height.			
12		0			.			
		60%	_= Total C	over				
	50% of total cover: 30	20%	of total cove	_{er:} 12	.			
Woody Vine Stratum (Plot size:	30 ft r)							
1		0			.			
2		0	_	_	.			
3		0						
4		0						
		0			Hydrophytic			
		= Total Cover			Vegetation			
50% of total cov					Present? Yes No			
			0. 1010. 001.					
4 5 50% of total cover: Remarks: (If observed, list morphological adaptations bellydrophytic vegetation present		0			/			

FAC

✓

__ = Total Cover

20% of total cover: 4

10

10

0

0

0

0

0

0

10

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the ir	ndicator	or confirm	n the absence	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0 - 20	2.5Y 4/2	100					Sand			
-										
										
-										
_										
1T C=C		alatica DM-D	Sadvasal Matrix Mi	2-Maakad	Cd C		21	DI - Dava I	ining Manhanti	
	oncentration, D=De Indicators: (Appli					ains.			ining, M=Matri matic Hydric :	
I		cable to all Li	_			DD C T I			-	Jons .
Histosol			Polyvalue Be					uck (A9) (L uck (A10) (•	
	oipedon (A2) stic (A3)		Loamy Muck							/ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	•		(0)				(LRR P, S, T)
	d Layers (A5)		Depleted Ma		2)				Loamy Soils (
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			A 153B)	Loanny Como (20)
	icky Mineral (A7) (L		Depleted Da					rent Materi	ial (TF2)	
	esence (A8) (LRR		Redox Depre						Surface (TF1	2)
	ıck (A9) (LRR P, T)		Marl (F10) (L					Explain in F		,
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11) (MLRA 1	51)				
	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (LRR O, P,	, T) ³ Indica	ators of hyd	drophytic vege	tation and
	rairie Redox (A16)					', U)			ogy must be p	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbe	ed or problema	tic.
	Sleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,									
l _	Layer (if observed):								
Type:			_							
Depth (in	ches):						Hydric Soil	Present?	Yes	No <u> </u>
Remarks:										
Hydric soil no	ot present									

Appendix D

Environmental Survey Photographs

Appendix D – Environmental Survey Photographs Lowman Pipeline Project NextEra Energy Pipeline Holdings (Lowman), Inc.



Photograph #1 – Representative view of a palustrine forested (PFO) wetland within the survey area, facing west.



Photograph #2 – Representative view of a Palustrine scrub/shrub (PSS) wetland within the survey area, facing north.



Photograph #3 – Representative view of palustrine emergent (PEM) wetland within the survey area facing north.



Photograph #4 – Representative view of a ditch within the pipeline survey area facing south.



Photograph #5 - Representative view of a pond within the survey area facing northeast.



Photograph #6 – Representative view of the ephemeral stream within the survey area, facing west.



Photograph #7 — Representative view of an intermittent stream within the survey area, facing southeast.



Photograph #8 —Representative view of pasture/agricultural land within the survey area facing south.



Photograph #9 — Representative view of an existing pipeline right-of-way within the survey area facing northeast.



Photograph #10- Representative view of the Okatuppa Creek within the survey area, facing northwest.



Photograph #11 – Representative view of Folsoms Creek within the survey area, facing northwest.



Photograph #12— Representative view of the Elias Creek within the survey area, facing northeast.

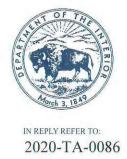


Photograph #13— Representative view of the large waterbody connecting to Mill Branch within the survey area, facing east.



Photograph #14— Representative view of the Bougueloosa Creek within the survey area, facing north.

U.S. Fish and Wildlife Service Consultation



United States Department of the Interior

FISH AND WILDLIFE SERVICE 1208-B Main Street Daphne, Alabama 36526

DEC 0 5 2019

Mr. Andrew Grammer Edge Engineering and Science, LLC. 16285 Park Ten Place, Suite 400 Houston, TX 77084

Dear Mr. Grammer:

Thank you for your letter dated October 16, 2019, requesting review on the behalf of NextEra Energy Resources (NextEra), for the proposed Lowman Pipeline Project in Choctaw and Washington counties, Alabama. We understand NextEra has contracted Edge Engineering and Science, LLC to provide environmental consulting support and is seeking a Nationwide Permit 12 – Utility Line Activities through the U.S. Army Corps of Engineers. Following is the Service's list of species concerning this project as it relates to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Federally Listed Species

Our records and information provided in your report indicate that habitat exists in the project area and the following endangered and threatened species may occur in the immediate project area:

- Wood Stork Mycteria americana Threatened
- Gopher Tortoise Gopherus polyphemus (West of Mobile and Tombigbee Rivers)
 Threatened
- Black Pine Snake Pituophis melanoleucus lodingi Threatened
- Inflated Heelsplitter Potamilus inflatus Threatened
- Southern Clubshell Pleurobema decisum Endangered

Based on the proposed pipeline route provided via email on November 18, 2019, we have no concerns for the Atlantic sturgeon, *Acipenser oxyrhynchus oxyrchynchus*.

Species Surveys

Please be aware that "take", as defined under section 3 of the ESA, "means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" and is prohibited without a permit issued under section 10 of the ESA. Individuals conducting surveys for federally threatened or endangered species must possess federal recovery permits as described under section 10(a)(1)(A) of the ESA and implementing regulations found at 50 CFR 17.22 and 17.32, along with State scientific collection permits. Furthermore, survey plans

PHONE: 251-441-5181 FAX: 251-441-6222

Mr. Andrew Grammer

should be submitted to our office for review prior to being carried out. Please acquire proper state and federal permits or coordinate with permitted biologists if you intend to conduct surveys for threatened and endangered species.

We support your plans to conduct pedestrian surveys to evaluate suitable habitat and presence/probably absence of gopher tortoise burrows and the site list provided in your letter for aquatic habitat assessment/surveys species. Please acquire the proper federal and state permits and provide this office a copy of the survey plans for approval prior to conducting burrow occupancy and instream surveys. If surveys indicate that listed species occur within the proposed project area and proposed work cannot be altered to avoid take as defined by the ESA, formal consultation would be recommended.

To provide the Service with the necessary information in a burrow survey report, please provide the following: survey design, survey dates, ambient temperature, maps of survey area including total number of miles, locations of gopher tortoise burrows including maps, photos of the burrows if found, if the burrows are active or inactive, and maps of burrow locations. The aquatic survey report should include a detailed description of the site including species and substrates present, survey methods, area surveyed and surveyor(s) credentials. We also recommend the report include a description of stream habitat and water quality.

For further discussion, please contact Mrs. Jennifer Grunewald of my staff at (205) 247-3726. Please refer to the reference number located at the top of this letter in future phone calls or written correspondence.

Sincerely,

William J. Pearson Field Supervisor

Alabama Ecological Services Field Office



edge-es.com

October 16, 2019

Bill Pearson
Field Supervisor
U.S. Fish and Wildlife Service
Alabama Ecological Services Field Office
1208 Main Street
Daphne, Alabama 36526-4419

RE: Request for Threatened and Endangered Species Consultation

NextEra Energy Resources Proposed Lowman Pipeline Project

Choctaw and Washington Counties, Alabama

Dear Mr. Pearson,

NextEra Energy Resources (NextEra), is seeking authorization from the U.S. Army Corps of Engineers (USACE) under Nationwide Permit 12 - Utility Line Activities (NWP 12) for its proposed Lowman Pipeline Project (Project). The Project will include new construction in Choctaw and Washington Counties in Louisiana (see Attachment 1). NextEra has contracted Edge Engineering and Science, LLC (EDGE) to provide environmental support for the Project, including agency consultation and field surveys as well as federal, state, and local permitting. Due to the required approval from the USACE and the resulting federal nexus, EDGE is contacting you to initiate consultation in accordance with Section 7 of the Endangered Species Act (ESA).

PROJECT DESCRIPTION

The Project is located in Choctaw and Washington counties, Alabama, and will consist of approximately 51 miles of 16-inch-diameter intrastate natural gas pipeline. The Project is being constructed to allow for natural gas conversion of the existing coal-fired PowerSouth Lowman Power Plant in Washington County, Alabama. In addition to the pipeline, the Project will include the construction of one new compressor station, four meter stations, and a launcher/receiver facility.

Concurrent with pedestrian wetland and waterbody delineation surveys, habitat assessments will be conducted at each of the Project components.

THREATENED AND ENDANGERED SPECIES ASSESSMENT

EDGE has identified federal threatened, endangered, and candidate species that are have the potential to occur within the Project area. The species list was compiled from a review of the U.S. Fish and Wildlife (USFWS) Information, Planning and Conservation System (IPaC). The IPaC results are provided as Attachment 2, and a summary of those species identified is included in Table 1, below. Potential suitable

habitat for the wood stork (*Mycteria Americana*), black pine snake (*Pituophis melanoleucus lodingi*) and gopher tortoise (*Gopherus Polyphemus*) exists within or immediately adjacent to the Project area, as well as potential habitats for Inflated heelsplitters (*Potamilus inflatus*) and Southern clubshell (*Pleurobema decisum*). These species are discussed in additional detail. Federally designated critical habitat locations were also reviewed, and no designated critical habitat occurs in areas affected by the Project.

TABLE 1 Federally Listed Species in Choctaw and Washington Counties, Louisiana					
Common Name	Scientific Name	Listing Status	Habitat Description	Potential for Occurrence	
Birds					
Wood stork	Mycteria americana	Threatened	Breeding occurs in fresh and brackish forested wetlands. Storks nest in trees above standing water in cypress swamps and oaks in flooded inpoundments. Storks forage in swamps, ponds, and marshes with water depths 4-12 inches.	Known to occur in the lower Tombigbee River drainage crossed by the Project.	
Reptiles	25	22	•		
Gopher tortoise	Gopherus polyphemus	Threatened	Dry, deep sandy soils where the overhead canopy is open. Longleaf pine-scrub oak wiregrass sand hills that are fequently burned.	Suitable soils located within open longleaf pine-scrub oak wiregrass sand hills may exist in the vicinity of the Project area.	
Black pine snake	Pituophis melanoleucus lodingi	Threatened	Xeric, fire-maintained longleaf pine forest with sandy, well-drained soils; usually on hilltops, ridges, and toward tops of slopes. Potential to occur in dry, periodically burned pine or mixed pine-scrub oak forest with abundant groundcover vegetation.	Suitable longleaf pine forest with suitable soils, which could provide habitat, are likely to exist in the vicinity of the Project area.	
Fish					
Atlantic sturgeon	Acipenser oxyrhynchus oxyrhynchus	Threatened	Inhabits shallow waters of the continental shelf and coastal brackish waters; spawns in large river systems and hatches in freshwater systems. Preferred substrates consist of rock, coble, and gravel.	No suitable habitat exists within or immediately adjacent to the Project area.	
Mollusks					
Inflated heelsplitter	Potamilus inflatus	Threatened	Sand, mud, silt, and sandy-gravel substrates in slow to moderate freshwater currents.	The Tombigbee River drainage in Alabama is know to support the species.	

TABLE 1 Federally Listed Species in Choctaw and Washington Counties, Louisiana							
Common Name	Scientific Name	Listing Status	Habitat Description	Potential for Occurrence			
Southern clubshell	Pleurobema decisum	Endangered	Highly oxygenated streams with sand and gravel substrate in shoals of large rivers to small streams. May be found in sand and gravel in the center of a stream or in sand along the margins of the stream	The Tombigbee River drainage in Alabama is know to support the species.			

BIRDS

The wood stork (*Mycteria americana*) is federally threatened and known to inhabit the lower Tombigbee river drainage. EDGE plans to survey for wood stork habitat (nesting) and potential occupancy coinciding with wetland/waterbody and mussel habitat surveys (see discussion, below).

REPTILES

The gopher tortoise (Gopherus polyphemus) is known to occur in Washington and Choctaw counties, Alabama. The species is designated as federally threatened under ESA within this portion of their range and are protected under state regulation. Based upon a desktop review of the Project area, EDGE anticipates that potential suitable habitat for the tortoise may be crossed, and plans to conduct pedestrian surveys to evaluate suitable habitat and presence/probable absence of burrows. If burrows are found during surveys, measurements of the width, height, and condition of the burrow will be recorded and mapped, and a subsequent occupancy survey will be conducted to estimate population size and density to determine if translocation or implementation of on-site construction Best Management Practices (BMPs) are necessary.

The southern black pinesnake (*Pituophis melanoleucus lodingi*; SBP) is federally threatened and occupies similar upland habitats as the gopher tortoise. Based on EDGE's experience, we do not anticipate targeted species efforts for SBP, rather it will be evaluated in conjunction with gopher tortoise field survey efforts. Surveys will be conducted in land cover types and soil associations that are known to support the life history requirements of the SBP and gopher tortoise. Surveys will occur during the active season for tortoises, generally from March to October.

MOLLUSKS

The Tombigbee River drainage in Alabama is known to support multiple federally listed freshwater mussels. Those mussel species listed as potentially occurring in Choctaw and Washington counties, including the inflated heelsplitter (*Potamilus inflatus*) and southern clubshell (*Pleurobema decisum*) are predominantly based on known occurrences in the upper Tombigbee River drainage. EDGE anticipates conducting aquatic habitat assessment/surveys at nine (9) perennial waterbodies/tributaries traversed by the ROW in Choctaw (Bogueloosa Creek, Buck Creek, Okatuppa Creek, Souwilpa Creek, Black Creek, Turkey Creek) and Washington (Santa Bogue Creek, Elias Creek, Tauler Creek) counties. Mussel habitat surveys can also evaluate/supplement other aquatic species concerns including fishes, invertebrates, snails, and herptofauna that may be raised during the Project review process.

BALD EAGLES AND MIGRATORY BIRDS

In addition to species listed under the ESA, NextEra recognizes the legal requirements for complying with bald and golden eagles and migratory birds under the jurisdiction of the USFWS. In the event that a bald eagle is encountered, construction will be conducted in compliance with the USFWS National Bald Eagle Management Guidelines.

NextEra is familiar with the requirements under the Migratory Bird Treaty Act (MBTA). NextEra has designed the Project to minimize impacts on forested vegetation to the extent practicable; however, tree removal will be necessary for construction of the Project. Tree removal will be conducted outside the migratory bird nesting season (April 15 through August 1) to the extent practicable.

NextEra and EDGE appreciate your assistance. Should you have any questions or comments, please contact me at (832) 772-3018 or via email wagrammer@edge-es.com

Sincerely,

Andrew Grammer
Project Manager
Edge Engineering and Science, LLC

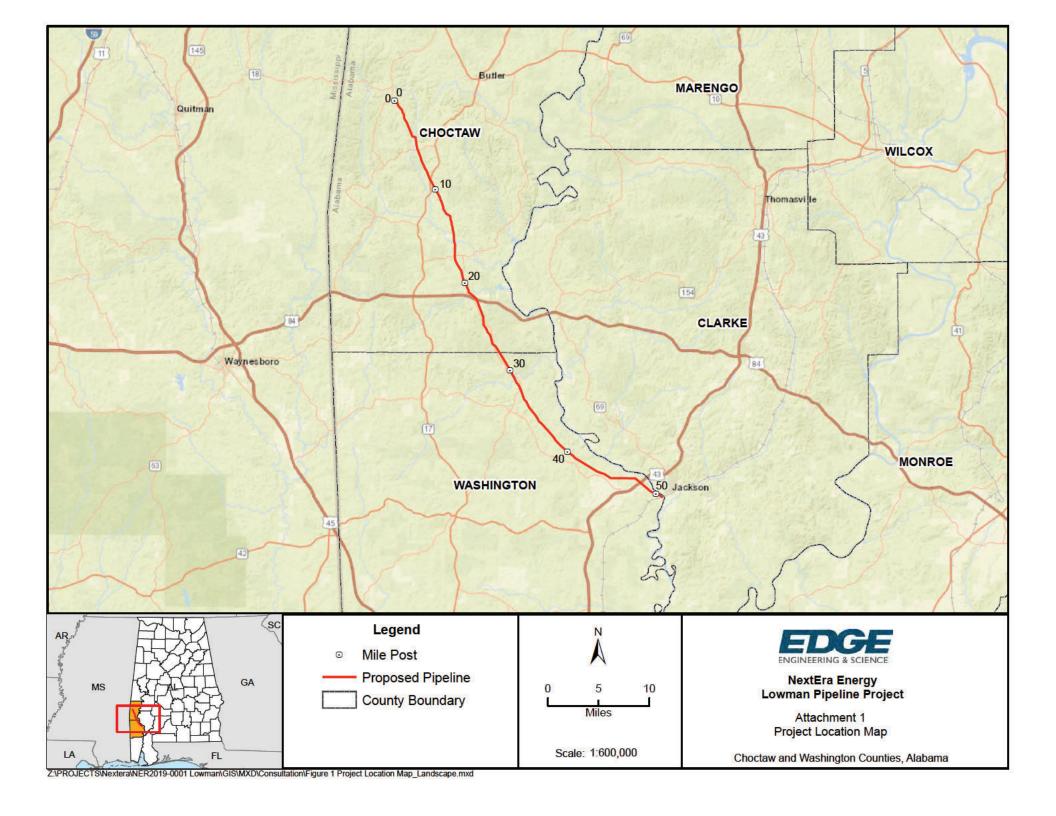
Cc: Ray Loving, NextEra

Attachments:

Attachment 1: Project Location Map of the Lowman Pipeline Project

Attachment 2: Information, Planning and Conservation System Species Lists

Project Location Map of the Lowman Pipeline Project



Information, Planning and Conservation System Species Lists

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Choctaw and Washington counties, Alabama



Local office

Alabama Ecological Services Field Office

(251) 441-5181

(251) 441-6222

1208 B Main Street Daphne, AL 36526-4419

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME STATUS

10/3/2019

Wood Stork Mycteria americana

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/8477

Threatened

Reptiles

NAME STATUS

Black Pine Snake Pituophis melanoleucus lodingi

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/452

Threatened

Gopher Tortoise Gopherus polyphemus

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6994

Threatened

Fishes

NAME

Atlantic Sturgeon (gulf Subspecies) Acipenser oxyrinchus

(=oxyrhynchus) desotoi

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/651

Threatened

Clams

NAME

Inflated Heelsplitter Potamilus inflatus

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/7286

Threatened

Southern Clubshell Pleurobema decisum

There is **final** critical habitat for this species. Your location is outside

the critical habitat.

https://ecos.fws.gov/ecp/species/6113

Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds
 http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
 http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS INDICATED
FOR A BIRD ON YOUR LIST, THE
BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN
THE TIMEFRAME SPECIFIED,
WHICH IS A VERY LIBERAL
ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS
ACROSS ITS ENTIRE RANGE.

"BREEDS ELSEWHERE" INDICATES
THAT THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT AREA.)

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Breeds Sep 1 to Jul 31

Common Ground-dove Columbina passerina exigua

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds Feb 1 to Dec 31

Prairie Warbler Dendroica discolor

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 1 to Jul 31

Prothonotary Warbler Protonotaria citrea

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 1 to Jul 31

Red-headed Woodpecker Melanerpes erythrocephalus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Sep 10

Rusty Blackbird Euphagus carolinus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Swallow-tailed Kite Elanoides forficatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/8938

Breeds Mar 10 to Jun 30

Wood Thrush Hylocichla mustelina

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (*)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

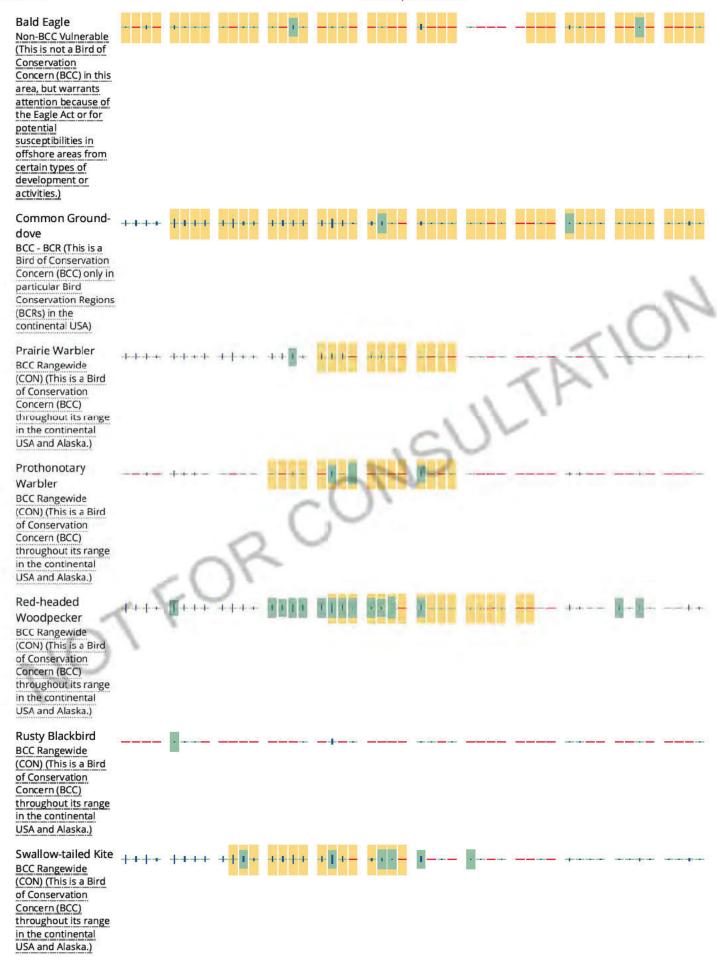
No Data (-)

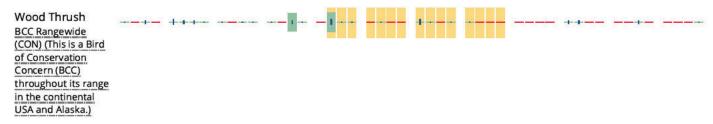
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.







Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.



National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

```
FRESHWATER EMERGENT WETLAND
```

PEM1A

PEM1Ch

PEM1C

PEM1Fh

FRESHWATER FORESTED/SHRUB WETLAND

PFO1C

PFO1A

PFO6F

PFO6/5F

PFO1/4A

PFO5/EM1Fh

PSS4/1A

PFO1/5Fh

PFO1/SS1A

PSS1A

PFO1Cb

PFO4/1A
PSS1Cd
PSS1C
PSS4A
PFO1Fh

FRESHWATER POND
PUBHh
PUBF
PUBHX

LAKE
L1UBHh

RIVERINE
R2UBH

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

R4SBC R5UBH

The Service'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.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Landowner Address Labels (P&C)

Pages 318 through 339 redacted for the following reasons:
(b)(6)

Route Alternatives

