Sampling Point: wj00027f.w

Profile Description: (Describe to the depth needed to do	ocument the indicate	or or confirm	the absence of in	dicators.)
Depth <u>Matrix R</u>	Redox Features	` <u>`</u> ``````````````````````````````````	~ .	
<u>(inches)</u> <u>Color (moist)</u> <u>%</u> <u>Color (moist)</u> D-3 2,5 ¥ ³ 2 100) <u> % Type</u>	<u>Loc</u> .	Texture	Remarks
	. <u></u>		<u></u>	· · · · · · · · · · · · · · · · · · ·
3-20 2.5 31 100			<u>SL</u>	·
				<u> </u>
		_ .	<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix	K, MS=Masked Sand	Grains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless o	-	4 57 5 - 		Problematic Hydric Soils ³ :
	e Below Surface (S8) & Surface (S0) (LBB			(A9) (LRR O)
	k Surface (S9) (LRR lucky Mineral (F1) (L			(A10) (LRR S)
	Bleyed Matrix (F2)			ertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T)
	Matrix (F3)			Bright Loamy Soils (F20)
Grganic Bodies (A6) (LRR P, T, U)	ark Surface (F6)		(MLRA 1	
	I Dark Surface (F7)			t Material (TF2)
	epressions (F8)			w Dark Surface (TF12)
	0) (LRR U)	4 54)	U Other (Exp	lain in Remarks)
	I Ochric (F11) (MLRA Iganese Masses (F12		C) ³ Indiantar	of hydronhydio yossistian and
	Surface (F13) (LRR F			s of hydrophytic vegetation and hydrology must be present,
	chric (F17) (MLRA 15			disturbed or problematic.
Sandy Gleyed Matrix (S4)	f Vertic (F18) (MLRA	150A, 150B)		
	nt Floodplain Soils (F			
Stripped Matrix (S6)	ous Bright Loamy Soi	ls (F20) (MLRA	A 149A, 153C, 153	3D)
Restrictive Layer (if observed):				
Туре:				/
Depth (inches):			Hydric Soil Pre	sent? Yes 🗸 No
Remarks:				
1				



Wetland data point wjoo027f facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: <u>ACP</u> Applicant/Owner: <u>Dominion</u>	City/County: Johnston Sampling Date: 428/15 State: NC Sampling Point: 4000 627-4
	Section, Township, Range: <u>NONE</u>
· · · · · · · · · · · · · · · · · · ·	
	Local relief (concave, convex, none): Loncave Slope (%): 2-5/
Subregion (LRR or MLRA):	30327 Long: -78,49278 Datum: W6584
Soil Map Unit Name: Goldsbord sandy loon	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (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	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
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)	
High Water Table (A2)	
Saturation (A3)	
	eres along Living Roots (C3)
Sediment Deposits (B2)	
Drift Deposits (B3) Recent Iron Reduction Algal Mat or Crust (B4) Thin Muck Surface	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat of Ordst (B4) ☐ Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7)	temarks) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches): <u>NA</u>
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	
Describe Recorded Data (stream gauge, monitoring well, aenai prot	os, previous inspections), if available:
Remarks:	
Actuality.	

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

Sampling Point: Win0027-4

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30++ x 30++</u>)		Species?	<u>Status</u>	Number of Dominant Species
1. Ligustrum sinense	125		FAC	That Are OBL, FACW, or FAC: (A)
2. Prinus scrotina	<u> </u>	<u> </u>	FACU	Total Number of Dominant
3	<u> </u>			Species Across All Strata:
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
6				mat Are OBL, FACW, OF FAC: (AVB)
7				Prevalence Index worksheet:
8	······			Total % Cover of: Multiply by:
· · · · · · · · · · · · · · · · · · ·	2.0	= Total Cov		OBL species x 1 =
50% of total cover: 10	0000		- 1	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304 x 304)	20% 0	total cover:	<u> </u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: <u>DVT 1 X DVT 1</u>)	2.	N	CNC	FACU species x 4 =
1. Ligustrum sinense,	20	<u> </u>	FAC	
2,				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
8			·	2 - Dominance Test is >50%
0	20			
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>10</u>	20% o	f total cover	4_	
Herb Stratum (Plot size: 30++ x 30++)				¹ Indicators of hydric soil and wetland hydrology must
1. none	. <u>.</u>			be present, unless disturbed or problematic.
2				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				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				
	0	= Total Co	vêr	
50% of total cover:	20% c	f total cover		
Woody Vine Stratum (Plot size: <u>30ftx30ft</u>)	20700		•	
1. Smilax of unditolia	10	M	EAr	
		· _ `	Cn.C	
2. Vitis rotunditolia	18	·¥	THU	٠
3				
4				
5				Hydrophytic /
	30	= Total Co	ver	Vegetation
50% of total cover:	20%	of total cove	r 6	Present? Yes V No
Remarks: (If observed, list morphological adaptations bel				
	υw).			

Sampling Point: 100 027-1

Profile Desc	cription: (Describe	to the depth i	needed to docur	ment the i	ndicator o	or confirm t	the absence of in	dicators.)	
Depth	Matrix	·	Redo	x Feature	s				
(inches)	Color (moist)		Color (moist)	%	Type	_Loc ²	Texture	Remarks	
<u>0-5</u>	<u>Z.513/2</u>	100					<u> 5L </u>		
5-20	2.54573	100			·		54-		
		•							
							<u> </u>		
							·····		
						<u> </u>			
¹ Type: C=C	oncentration, D=Dep	pletion, RM=Re	duced Matrix, M	S=Masked	d Sand Gra	ains.	² Location: PI =	Pore Lining, M=Ma	triv.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise not	ed.)		Indicators for F	Problematic Hydri	c Soils ³ :
Histosol			Polyvalue Be		-	RR S. T. U)		(A9) (LRR O)	
	oipedon (A2)		🗍 Thin Dark Sι					(A10) (LRR S)	
	istic (A3)		🔲 Loamy Muck			0)		ertic (F18) (outside	e MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)		Piedmont F	loodplain Soils (F1	9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	•••			Anomalous	Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR P		Redox Dark		-		(MLRA 1		
	ucky Mineral (A7) (LI		Depleted Da					Material (TF2)	
	esence (A8) (LRR U Jck (A9) (LRR P, T)	. ני	Redox Depre		0)			w Dark Surface (T	F12)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MI RA 1	54)		ain in Remarks)	
	ark Surface (A12)		Iron-Mangan				D ³ Indicator	s of hydrophytic ve	netation and
	rairie Redox (A16) (I	MLRA 150A)	🔲 Umbric Surfa					hydrology must be	
	/lucky Mineral (S1) (LRR O, S)	🔲 Delta Ochric					listurbed or probler	
	Bleyed Matrix (S4)		Reduced Ve					·	
	Redox (S5)		Piedmont Fl						
	Matrix (S6)	с т IN	I Anomalous I	Bright Loa	my Soils (i	F20) (MLRA	A 149A, 153C, 153	SD)	
	rface (S7) (LRR P, S Layer (if observed)					1			
Type:	Layer (ii observed)	•							
Depth (in	cher):		_						
Remarks:							Hydric Soil Pre	sent? Yes	No
rtemarks.									
1									



Upland data point wjoo027 facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP City/	County: Johnston Sampling Date: 6/4/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wjog COLF_W
Investigator(a): EST-M, Smith, K, MURPENIES Sect	ion Townshin Range: NA
Louis Allena tomas atas Deplessista loop	I relief (concover none); CONCOVE Slope (%): 0-2
Candidorm (Intrisidope, tenace, etc.). <u>Inc. 1</u>	279 Long: -78.50803 Datum: WGS 84
Soil Map Unit Name: Lynchburg Sondy loom, 0-2	911 SIDRES NIM classification: PEO
Soil Map Unit Name: Lanchourg Sandy 1001110 a	NWI classification. 71
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 distu	arbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes Vo No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes V No	within a Wetland? Yes <u>No</u>
Remarks:	
NCWAM: Headwater Forest	
HYDROLOGY	Queenders Indicators (minimum of two required)
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)	
High Water Table (A2) Marl Deposits (B15) (LR Saturation (A3) Hydrogen Sulfide Odor	
	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? YesNo Depth (inches):	
Water Table Present? Yes No Depth (inches):	6 Wetland Hydrology Present? Yes No
Saturation Present? Yes V No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
nemana.	

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

Sampling Point: Wjog-COIF-W

2ACL VOASL		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 305+ X305+)	% Cover	Species?	FACU	Number of Dominant Species
1. Liriodentrun tulipisera	50	-/	TACUT	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum 3.		N	FAC	Total Number of Dominant Species Across All Strata: (() (B)
4 5				Percent of Dominant Species
6.				
7.				Prevalence Index worksheet:
8.		T. Williams		Total % Cover of: Multiply by:
	55	= Total Cov	/er	OBL species x 1 =
50% of total cover: 27.				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+7305+)	207001	total cover		FAC species x 3 =
1. Persea palystris	10	V	FACW	FACU species x 4 =
2 Lioustrum sinense	20	-1-	FAC	UPL species x 5 =
	10		FAC	Column Totals: (A) (B)
3. Ilex opoco	10		1-110	
4	Constant of			Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6			The second	Rapid Test for Hydrophytic Vegetation
7			100	2 - Dominance Test is >50%
8			a delation of	3 - Prevalence Index is ≤3.0 ¹
	40	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	: 8	
Herb Stratum (Plot size: 308+×305+)			and the State	¹ Indicators of hydric soil and wetland hydrology must
1. Woodulardia arealata	5	Y	OBL	be present, unless disturbed or problematic.
2 NOOdwardla Virginica	5	V	OBL	Definitions of Four Vegetation Strata:
3. Bochmerio rulindrica	6		FACW	
			FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Solidago gigontea	-5	<u></u>		more in diameter at breast height (DBH), regardless of height.
5. Rubus argutus		<u> </u>	FAC	
6				Sapling/Shrub - Woody plants, excluding vines, less
7		and the second		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.	A Marker Marker	19986.28		
	25	= Total Cov		
50% of total cover: 12.	A	total cover	-	
Woody Vine Stratum (Plot size: 306-X305)	207001	total cover		
1. Partheadcissus aninguefol	102	Y.	FACH	
	5		FAC	
2. Gersemium sempervirens			Pric	
3				
4				
5			15.000.000.000.000.000.0000.0000.0000.0	Hydrophytic
	7	= Total Co	ver	Vegetation
50% of total cover: 3	5 20% of	total cover	:1.4	Present? Yes No No
Remarks: (If observed, list morphological adaptations belo	w).	the Topperson	THE REAL PROPERTY.	
		AND ADDRESS	and the state	

Sampling Point: wjog OSIF.w

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of in	dicators.)
Depth	Matrix		Red	ox Feature	s			
(inches)	Color (moist)		Color (moist)	%	Type	Loc ²	Texture	Remarks
0-20	104R2/1	100					ML	
and and						(1) 12 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
	State a contraction							
							The second state	
	-	-			Concession of			and the second se
	-		and the second second	-				
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	IS=Masked	Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
A Street and a Charles of Street	Indicators: (Applie	cable to all LF						
Histosol			Polyvalue B Thin Dark S					(A9) (LRR O) (A10) (LRR S)
The second se	pipedon (A2) istic (A3)		Loamy Muc					ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley			,		loodplain Soils (F19) (LRR P, S, T)
the second s	d Layers (A5)		Depleted M				Anomalous	Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR I		Redox Dark		and the second se		(MLRA 1	
	ucky Mineral (A7) (L		Depleted Da					t Material (TF2)
The second se	resence (A8) (LRR		Redox Depr		8)			ow Dark Surface (TF12) lain in Remarks)
	uck (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (Depleted O		(MIRA 1	51)	Unier (Exp	
 Resolution of a statistic for the 	ark Surface (A12)		Iron-Manga					s of hydrophytic vegetation and
	rairie Redox (A16) (MLRA 150A)	A Present All States with Sold States and a state				wetland	hydrology must be present,
	Aucky Mineral (S1)	(LRR O, S)	Delta Ochri				unless o	disturbed or problematic.
	Sleyed Matrix (S4)		Reduced V					
The second	Redox (S5)		Piedmont F				9A) A 149A, 153C, 153	3D)
	d Matrix (S6) Inface (S7) (LRR P,	s. T. U)		Dirgin Loa	iny 0013 (1 20) (
	Layer (if observed		and the second second				CONTRACT CONTRACTOR	and the second
Type:								/
The second s	iches):						Hydric Soil Pre	sent? Yes No
Remarks:						are the con	Contraction of the second	and see it was a set of the set of the set of the
1000								
							State of the second	



Wetland data point wjoq001f_w facing southeast.



Wetland data point wjoq001f_w facing southwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: JOhnston Sampling Date: 6/9/16
Applicant/Owner: Dominion	State: NC Sampling Point: Wjog B01-4
Investigator(s): ESI-M. Smith, K.Murphrey	Section Township Range: NA
Landform (hillsland tarrace ata); hill Slippe	Local relief (concave convex none): (ONRX Slope (%): 0-2
Subscript (IBB and IBA): LAB P Lat 35	30085 Long: 78, 50797 Datum: W65 84
Soil Map Unit Name: Lynchburg Sondy 100m, 0-	29, SIDRES NMI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil, or Hydrology naturally p	
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 Wetland Hydrology Present? Yes No Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGŸ	the second s
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 (B) High Water Table (A2) Marl Deposits (B1)	
Saturation (A3)	
	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) Thin Muck Surfac	
Iron Deposits (B5) Unundation Visible 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	s): <u>NA</u>
Water Table Present? Yes No Depth (inche	s): <u>>20</u>
Saturation Present? Yes Ves Depth (inche (includes capillary fringe)	s): 16 Wetland Hydrology Present? Yes No V
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:
Remarks:	
nemano.	

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

Sampling Point wjog BOL-4

	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+X30F+)		Species?		
	70	Concernance of the second	FAC	Number of Dominant Species (A)
1. Pinus taeda			1-110	That Are OBL, FACVV, OF FAC (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
The second se				
4				Percent of Dominant Species 83,3
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8.	AND STREET	STATISTICS.		Total % Cover of: Multiply by:
0	-70		Same and the	OBL species x 1 =
24		= Total Co		FACW species x 2 =
50% of total cover: 3	20% of	total cover	14	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+X308+)				
1. Pinus toeda	50	Y	FAC	FACU species x 4 =
2 IPX OPACA	10	N	FAC	UPL species x 5 =
	5		FAC	Column Totals: (A) (B)
3. Liquidambar Styracistum		N	FAC	
4. Magnolia Vivainiana	2	N	FACW	Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.	and the second			
			(Antioner and	Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ¹
	67	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>33</u> .	5 20% 0	total cover	.13.4	
316-Y216	- 20100	total cover	The second s	
Herb Stratum (Plot size: 305+X 305+)	<	11	. 01	¹ Indicators of hydric soil and wetland hydrology must
1. Rhus copallinum	0		UPL	be present, unless disturbed or problematic.
2. Vitis PotundiFolia	5	Y	FAC	Definitions of Four Vegetation Strata:
3.				- We had a subdiag visco 2 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
4				height.
5.		and the second s		neight.
6			Second second	Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				the second state to the second s
· · · · · · · · · · · · · · · · · · ·				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 5.20 it tail.
10	-		ALL AND HALL MADE	Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.	The second second			
12.	10	Table	Water Store To.	and the second
	A LOUGH & PERSON AND THE OWNER OF	= Total Co		The second s
50% of total cover:	20% of	f total cover	r:	
Woody Vine Stratum (Plot size 30 Ft X 30 Ft)				
1. APISEMium Sempervillens	10	Y	FAC	
2 VIITIS INTENDIOUTION	20	V	FAC	
		-1		
3		CONTRACTOR OF	-	
4.		Sec. Sugarda	Charles to al	
5.				Hydrophytic
	30	= Total Co		Vegetation
14			-	Present? Yes No
50% of total cover:	20% o	f total cove		
Remarks: (If observed, list morphological adaptations belo	w).	an a carrier		
Constrained and the second				
		AND A THE OWNER AND A DOT	and the state of the second state of the	

Sampling Point wjog 001- u

	n needed to document the indicator or confirm	the absence of indicators.)
(inches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture Remarks
$\frac{\text{(inches)}}{(1-8)} \frac{\text{Color(moist)}}{104R2/1} \frac{\%}{100}$		FSL
6-14 104R5/2 100		FSL
		es)
14-20 104R 5/3 LOU		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U)	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR O) 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) Very Shallow Dark Surface (TF12)
Muck Presence (A8) (LRR U)	Redox Depressions (F8) Marl (F10) (LRR U)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR P, T) 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) Piedmont Floodplain Soils (F19) (MLRA 14	
Sandy Redox (S5) Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Туре:		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No _/
Remarks:		



Upland data point wjoq001_u facing southeast.



Upland data point wjoq001_u facing northwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City	County: Johnston Sampling Date: 6/9/16
Applicant/Owner: Dominion	State: NC Sampling Point: W 09 002 F-W
Investigator(s): ESI-M. Smith, K. Marphiley Sec	tion, Township, Bange: NA
Depression los	al raliaf (concave convex none): (OACAVE Slope (%): 0-2
Landionn (Innisiope, tenace, etc.). <u>Der</u>	51 Long-78.511262 Datum: 1/165 84
Soil Map Unit Name: Bibb Sondy 10000, 0-290, 51.00	usatly Staded And Isasification: PFO
Soil Map Unit Name: 0100 Soldy Town, 0 Ala, area	Will classification.
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No</u> (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dist	
Are Vegetation, Soil, or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>No</u> <u>No</u> <u>No</u> <u>Yes</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u>	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
NCWAM: Bostomland Hardwood Forest	
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)	RR U) Drainage Patterns (B10)
High Water Table (A2) Saturation (A3) Mari Deposits (B15) (L Hydrogen Sulfide Odor	
	along Living Roots (C3)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7	
Iron Deposits (B5) Other (Explain in Rema	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	JA
Surface Water Present? Yes No Depth (inches):	4
Water Table Present? YesNo Depth (inches): Saturation Present? Yes No Depth (inches):	SulFace Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	

ee Stratum (Plot size: 3054×3054)		Dominant Species?		Dominance Test worksheet:
NUSSA DIFIORA	40	<u>Y</u>	OBL	Number of Dominant Species / (A)
				Total Number of Dominant (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (00 (A/B)
				Prevalence Index worksheet:
			to date where	Total % Cover of: Multiply by:
	40	= Total Cov	ver	OBL species x 1 = FACW species x 2 =
50% of total cover: 20) 20% of	total cover	<u> </u>	FAC species x 2 =
ling/Shrub Stratum (Plot size: 3054K Bast)	20	V	EN	FACU species x 4 =
igustrum sinense	30		FACW	UPL species x 5 =
Magnolia virginiana	30	-7-	FAC	Column Totals: (A) (B)
Liliodendrun tulipiseron	5	N	FACU	Prevalence Index = B/A =
			Crewer and a state of the state	Hydrophytic Vegetation Indicators:
				TRapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>37</u> .	5 20% of	total cover	: 15	
rb Stratum (Plot size: 30 Ft X 30 Ft)	-		TACIN	¹ Indicators of hydric soil and wetland hydrology must
IMPOHIERS CAPERSIS	40	-4-	FACW	be present, unless disturbed or problematic.
Boehmeria cylindrica	10	4	FACW	Definitions of Four Vegetation Strata:
	-			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
The second s	Contraction Association	A settle successful and	-	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.
	-	ANY AND ANY ANY ANY A		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
	1			height.
	30	= Total Co		
50% of total cover:5		total cover		
body Vine Stratum (Plot size: 3054X3054			6	
VITIS rotandisolia	20	4	FAC.	
Smilax alaura	5	4	FAC	
			Section and	Hydrophytic
·	25	= Total Co	ver	Vegetation
50% of total cover: 12.				Present? Yes No No
marks: (If observed, list morphological adaptations bel	an the plant and the state			

1YP

Sampling Point: wjog 002f.w

	cription: (Describe	to the depth				or confirm	the absence of in	dicators.)
Depth (inches) 0-6 6-20	Matrix Color (molst) (OGR2/1 [OGR3/1	% 100 (00	Color (moist)	x Feature %	<u>Type</u> 		L L LS	Remarks
iydric Soil Histoso Histic E Black H Hydrog Stratifie Organid 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy Sandy Strippe	pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) c Bodies (A6) (LRR P ucky Mineral (A7) (Li resence (A8) (LRR L uck (A9) (LRR P, T) ed Below Dark Surface Oark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	r, T, U) RR P, T, U) J) MLRA 150A) LRR O, S)	Rs, unless othe Polyvalue Be Thin Dark St Loamy Muck Loamy Muck Depleted Ma Redox Dark Depleted Da Redox Depression Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surfa Delta Ochric Reduced Ve Piedmont Fl	rwise not elow Surfa urface (S9 y Mineral ed Matrix (F3) Surface (I rk Surface essions (F LR U) thric (F11) nese Mass ace (F13) (F17) (M rtic (F18) oodplain S	ed.) ace (S8) (L (F1) (LRR S, (F1) (LRR (F2) F6) e (F7) F8) (MLRA 1 ses (F12) ((LRR P, T LRA 151) (MLRA 15 Soils (F19)	S1) (LRR O, P, (JRR O, P, (JRR O, P, (MLRA 14)	Indicators for F 1 cm Muck 2 cm Muck 2 cm Muck Reduced Vi Piedmont F Anomalous (MLRA 1: Red Parent Very Shallo Other (Expl T) ³ Indicators wetland unless c	t Material (TF2) ow Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Restrictive Type: Depth (ii	urface (S7) (LRR P, 3 Layer (if observed) nches):	:					Hydric Soil Pre	sent? Yes No
Remarks:								



Wetland data point wjoq002f_w facing north.



Wetland data point wjoq002f_w facing south.

Photo Sheet 1 of 2

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: J	ohnston	Sampling Date: 40/9/16	
Applicant/Owner: Dominion		State: N	Sampling Point: Wjog 002	
Investigator(s): EST-M.Smith, IS, MULPHY	En Section Towns	hin Bange: NA		
Landform (hillslope, terrace, etc.): hill SOPC	Local relief (con	cave convex none):	ONVEX Slope (%): 2-4	
Subregion (LRR or MLRA): LRR P	1.35 30053	Lang -78 - 5	Datum W65 84	
Subregion (LRR or MLRA):	294 600005	Long	is up NA	
Soil Map Unit Name: BON NEAR Sand, 0-	510 510125	NWI CI		
Are climatic / hydrologic conditions on the site typical for	his time of year? Yes			
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstan	ices" present? Yes No	
Are Vegetation, Soil, or Hydrology	_ naturally problematic?	(If needed, explain any a	answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site ma	p showing sampling p	oint locations, trans	ects, important features, etc.	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No Is the Sr	ampled Area	1	
Hydric Soil Present? Yes	No within a	Wetland? Yes	No	
	No			
Remarks:				
HYDROLOGY		Secondary	Indicators (minimum of two required)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check a	II that apply	CONTRACTOR AND AND A DESCRIPTION OF A DE	e Soil Cracks (B6)	
	tic Fauna (B13)	which we want to be a set of the set	ely Vegetated Concave Surface (B8)	
	Deposits (B15) (LRR U)		ge Patterns (B10)	
	ogen Sulfide Odor (C1)		Trim Lines (B16)	
	zed Rhizospheres along Living		eason Water Table (C2)	
	ence of Reduced Iron (C4)		sh Burrows (C8)	
	nt Iron Reduction in Tilled Soil	and the Art of the second s	tion Visible on Aerial Imagery (C9)	
The second s	Muck Surface (C7)	Contraction of the second s	orphic Position (D2)	
Control of the definition of the second s Second second s Second second se	(Explain in Remarks)	NUMBER OF STREET STREET, STREET STREET, STREET STREETS	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		A CONTRACTOR REPORTS OF THE ADDRESS AND ADDRESS AND	leutral Test (D5) num moss (D8) (LRR T, U)	
Water-Stained Leaves (B9) Field Observations:				
Surface Water Present? Yes No	Depth (inches): NA			
Water Table Present? Yes No	Depth (inches): 220	-		
Saturation Present? Yes No		Wetland Hydrology F	Present? Yes No	
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring we	I, aerial photos, previous insp	ections), if available.		
Remarks:				

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

Sampling Point: Wjog 002_4

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+X3254) 1. Ligustrum sinease	% Cover 20		and the second se	Number of Dominant Species
2		_/		Total Number of Dominant (B)
4	-			Percent of Dominant Species 714
5				That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	20	= Total Co	ver	OBL species x 1 =
50% of total cover: 10	20% of	total cove	r:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30F+X 30F+)			EA.	FAC species x 3 = FACU species x 4 =
1. Ligustium sinease	60	-4	FAC	UPL species x5 =
2			-	Column Totals: (A) (B)
3	s blad och trathidate tre 12			
4		terre a construction de la construcción de la construcción de la construcción de la construcción de la constru Terre de la construcción de la const	-	Prevalence Index = B/A =
5			•	Hydrophytic Vegetation Indicators:
6			-	-Rapid Test for Hydrophytic Vegetation
7			-	2 - Dominance Test is >50%
8	60	= Total Co	Vor	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 30	the state of the second second second			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 3054 K 3054)			FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Rubus argudus		-1	FACIN	Definitions of Four Vegetation Strata:
2. Phydolacca americana 3. Solidago altissima	-5		FACU	
		-7	Theor	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6	Sanda a constante da	CONTRACTOR OF STREET		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B			and the second s	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.				
	15	= Total Co	ver	
50% of total cover: 7, 5	20% of	total cove	<u> </u>	
Woody Vine Stratum (Plot size: 2004) (Boost)				
1. Smilax rotundipolia	20	4	FAC	
2. VITIS rotandisolia	10	<u>-</u> Y_	FAC	
3				
4			-	
5	-21		-	Hydrophytic
		= Total Co		Vegetation Ves No
50% of total cover:	and a second	total cove	r:	
Remarks: (If observed, list morphological adaptations belo	w).			

-	-	
-	\mathbf{n}	
0	U	ᄂ

Profile Description: (Describe to the depth				or confirm	the absence of Ind	icators.)	
$\begin{array}{c c} & & & & & \\ \hline \text{Color (moist)} & & & \\ \hline \hline$	Redo Color (moist)	<u>× Features</u>			<u>FSL</u> FSL	Remarks	
Type: C=Concentration, D=Depletion, RM=R Hydric Soil Indicators: (Applicable to all LI Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6)	Res, unless other Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (I Depleted Oc Iron-Mangar Umbric Surfa Delta Ochric Reduced Ve Piedmont Fli	rwise note elow Surface (S9) y Mineral (ad Matrix (f trix (F3) Surface (F rk Surface essions (F/ .RR U) hric (F11) lese Massi ace (F13) ((F17) (ML rtic (F18) (bodplain S	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1 es (F12) (LRR P, T RA 151) (MLRA 15 oils (F19)	RR S, T, U T, U) 2 O) 51) (LRR O, P, 7, U) 50A, 150B) (MLRA 14	Indicators for P 1 cm Muck (2 cm Muck (Reduced Ve Piedmont Fle Anomalous I (MLRA 15 Red Parent Very Shallov Other (Expla T) ³ Indicators wetland h unless di	A10) (LRR S) rtic (F18) (outside oodplain Soils (F19 Bright Loarny Soils 3B) Material (TF2) w Dark Surface (TF ain in Remarks) of hydrophytic veg hydrology must be sturbed or problem	MLRA 150A,E MLRA 150A,E (LRR P, S, T (F20) (F20) (F20) (F20) (F20) (F20) (F20)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:					Hydric Soil Pres	ent? Yes	_ No



Upland data point wjoq002_u facing west.



Upland data point wjoq002_u facing south.

WETLAND DETERMINATION DATA FORM -- Atlantic and Guif Coastal Plain Region

Project/Site: ACP Ci	ity/County: Johnston sampling Date: 9/17/14
Applicant/Owner: Dominion	State: NC Sampling Point: wjoo023f-w
Investigator(s): ESTCLLODer, EStharf)s	
Landform (hillslope, terrace, etc.):	
	3000,5 Long: -78, 51823 Datum: WGS84
	NWI classification: PFD
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly d	a second s
Are Vegetation, Soil, or Hydrology significantly of Are Vegetation, Soil, or Hydrology naturally prob	
• <u> </u>	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
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)	
High Water Table (A2)	F /
Saturation (A3)	
	eres along Living Roots (C3)
Sediment Deposits (B2)	
	ion in Tilled Soils (C6)
Algal Mat or Crust (B4) Thin Muck Surface (
Injundation Visible 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 Ves Depth (inches) (includes capillary fringe)	: <u>SWFux</u> Wetland Hydrology Present? Yes <u>No</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	A
inundation in parti	ons of inething
could not reach NHD lines	Concertained,
could not reach intes	
•	

----- .

	Absolute	Dominant	Indicator	Sampling Point: wjoo023
		Species?		Number of Dominant Species
Her rubrum	5	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
Limidom bar Stynicitha	5	Y	FAC	
				Total Number of Dominant Species Across All Strata:
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
	<u></u>			
·				Total % Cover of:Multiply by:
	<u> </u>	= Total Co	ver	OBL species x 1 =
50% of total cover: 5	20% 0	f total cover	:_Z_	FACW species x 2 =
apling/Shrub Stratum (Plot size: 30 x 30 ft)				FAC species x 3 =
Acer subturn	10	Y	FA(FACU species x 4 =
Lignidambar styniflun	- C		EDP	UPL species x 5 =
- FIGURAGE STUVILLETIVIL				Column Totals: (A) (B)
		·	·	
				Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
				Apple Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
			· · · · · · · · · · · · · · · · · · ·	
·····	15	- , ≈ Total Co		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7,5				Problematic Hydrophytic Vegetation ¹ (Explain)
	<u>></u> 20% 0	t total cove		
erb Stratum (Plot size:30 x 30 ft)	~	N (<u>– 10 / 1</u>	¹ Indicators of hydric soil and wetland hydrology must
Smilax rotundifolia		. <u> </u>	TH	be present, unless disturbed or problematic.
<u>Vitis rotundifolia</u>	.5	<u> Y </u>	<u>PAC</u>	Definitions of Four Vegetation Strata:
Liquistrum sinchse		÷γ	FAL	
.0				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
•		<u> </u>		of size, and woody plants less than 3.28 ft tall.
0				
1				Woody vine – All woody vines greater than 3.28 ft in height.
2.				
<u> </u>	15			•
		= Total Co		
50% of total cover: 7.4	<u>ح</u> 20% (of total cove	ar: <u> </u>	-
Voody Vine Stratum (Plot size: 30 x 30 FF.)				
<u>none</u>				
·		÷		-
•				-
				-
· · · · · · · · · · · · · · · · · · ·	··			-
				- Hydrophytic
	$-\mathcal{O}$	= Total C	over	Vegetation Present? Yes No
50% of total cover:	20%	of total cove	er:	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	ow).			
(

.

.

ì

Prome Des	cription: (Describe to	o the depth	needed to docum	ient the in	uicator	or comm	the absence	of indicators.)
Depth	<u>Matrix</u>			Features	~ 1	1 2	T	
(inches)	Color (moist)		Color (moist)	_%	Type	_Loc ²	Texture	Remarks
0-1	10116-12	100 _					<u>_5L</u>	
1-8	10 14 3/2	<u> 100 </u>		<u> </u>			<u>s</u>	sulfidic odor
2.20	> 10 YK 4/3	801	04R-4/10	20	\mathcal{C}	M	SL	
-		· ·	· · · · ·					
	• • • • • • • • • • • • • • • • • • • •							
·			<u>.</u>					
			.			<u> </u>		
	Concentration, D=Deple					ains.		PL=Pore Lining, M=Matrix.
<u> </u>	I Indicators: (Applica	ble to all LR						s for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					Muck (A9) (LRR O)
	Epipedon (A2) Histic (A3)		Thin Dark Su					Muck (A10) (LRR S) ced Vertic (F18) (outside MLRA 150A,B)
	jen Sulfide (A4)		Loamy Gleye			. 0)		nont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Mat	-	-,			alous Bright Loamy Soils (F20)
	c Bodies (A6) (LRR P,	T, U)	📕 Redox Dark S	• •	3)		(ML	.RA 153B)
	lucky Mineral (A7) (LR		Depleted Dar					Parent Material (TF2)
	Presence (A8) (LRR U))		-	5)			Shallow Dark Surface (TF12)
	luck (A9) (LRR P, T)	(A11)	Marl (F10) (L			51)	Uther 🔟	(Explain in Remarks)
=	ed Below Dark Surface Dark Surface (A12)	(ATI)				•	T) ³ Ind	icators of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150A)						etland hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric			•		less disturbed or problematic.
Sandy	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo	-		-		- /
	ed Matrix (S6)		Anomalous E	Bright Loar	ny Soils	F20) (MLR	A 149A, 153	C, 153D)
	Surface (S7) (LRR P, S e Layer (if observed):						1	
Type:								
1	inches):	· · · ·		•			Hydric Sc	il Present? Yes No
Remarks:							1.,	
Remarks.								
1								
	·							
	·							



Wetland data point wjoo023f_w facing south.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County:	Johnston County	Sampling Date: 2/2/2016
Applicant/Owner: Dominion		State: NC	Sampling Point: wjoo023e_w
Investigator(s): GB, AS	Section, Tow	nship, Range: <u>No PLSS in this area</u>	
Landform (hillslope, terrace, etc.): ditch		cave, convex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): P Lat: <u>35.29977408</u>	8	Long: <u>-78.51803442</u>	Datum: WGS 1984
Soil Map Unit Name: Bibb sandy loam, 0 to 2 percent slopes, frequen	ently flooded	NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time of y	year?Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significant	tly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling	point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks:					
Wetland data point for a saturated to s wjoo023.	easonally floode	d PEM wetland locat	ed in an agricultural drainag	ge ditch; connects	to PFO section of wetland

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) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u></u> No <u>Depth</u> (inches): <u>6</u>	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes <u>✓</u> No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Ves ✓ No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective O O O	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Ves ✓ No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective O O O	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	

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

Sampling Point: wjoo023e_w

. ,	Abaaluta	- Daminant I		Deminence Test worksheet
Tree Stratum (Plot size: <u>30</u>)	Absolute	Dominant I Species?		Dominance Test worksheet:
	/0 COVEI	Species	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:5 (A)
2				
				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>83.33333333</u> (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =0
15				FACW species $\frac{75}{x 2} = \frac{150}{x 2}$
Sapling/Shrub Stratum (Plot size: 13)	-	Vaa	FACU	11 22
1. Rubus argutus	5	Yes	FACU	
2. Liquidambar styraciflua	3	Yes	FAC	FACU species X 4 =
3 Acer rubrum	2	Yes	FAC	UPL species x 5 =0
·				01 203
4				Column Totals: (A) (B)
5				Prevalence Index = $B/A = 2.23$
				Prevalence Index = B/A = 2.23
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
				2 - Dominance Test is >50%
9	- 10			✓ 3 - Prevalence Index is $\leq 3.0^1$
	10	= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 5	20% of	total cover:	2	
Herb Stratum (Plot size: 5)		_		data in Remarks or on a separate sheet)
Juncus effusus	45	Vaa		Problematic Hydrophytic Vegetation ¹ (Explain)
		Yes	FACW	
2. Dichanthelium scoparium	20	Yes	FACW	
3. Arundinaria tecta	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	75	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 37.5		total cover:		
	20 % 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
_{1.} Lonicera japonica	6	Yes	FAC	
2.				
3				
4				
5				Hydrophytic
0				Vegetation Present? Yes V No
		= Total Cove		
50% of total cover: <u>3</u>	20% of	total cover:	1.Z	
Remarks: (Include photo numbers here or on a separate s	heet)			1

Profile Desc	cription: (Describe to	o the dep	th needed to docur	nent the	indicator of	or confirm	the absence of indic	cators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 4/2	100					SL		
6-18	10YR 5/2	95	10YR 5/6	5	С	М	SCL		
			·		·		· ·		
					·				
		<u> </u>							
¹ T			Deduced Metrics M					Lining M. Matrix	
Hydric Soil	oncentration, D=Deple	etion, RIVI:	=Reduced Matrix, Ma	5=IVIaske	a Sand Gra	uns.	² Location: PL=Pore	r Problematic Hydric	Soils ³
Histosol			Dark Surface	(07)				,	50115 .
	pipedon (A2)		Polyvalue Be	· ·	000 (S8) (M			ck (A10) (MLRA 147) airie Redox (A16)	
	istic (A3)		Thin Dark Su					A 147, 148)	
	en Sulfide (A4)		Loamy Gleye	•	, .		•	t Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		(• =)			A 136, 147)	/
	uck (A10) (LRR N)		Redox Dark	. ,	=6)		•	llow Dark Surface (TF	12)
	d Below Dark Surface	(A11)	Depleted Da	•	,			kplain in Remarks)	,
Thick D	ark Surface (A12)		Redox Depre	essions (F	8)				
Sandy M	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (I	_RR N,			
	A 147, 148)		MLRA 13	,					
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	· ,	•			of hydrophytic vegetati	
	Redox (S5)		Piedmont Flo	•	· ,	•		/drology must be prese	ent,
	l Matrix (S6)		Red Parent N	Material (F	21) (MLR	A 127, 147	') unless dist	turbed or problematic.	
	Layer (if observed):								
Type: <u>no</u>	one								
Depth (in	ches):						Hydric Soil Presen	nt? Yes 🖌 No	o 0
Remarks:							1		



Photo 1 Wetland data point wjoo023e_w facing northeast



Photo 2 Wetland data point wjoo023e_w facing southwest

WETLAND DET	ERMINATION DATA FORM	M Atlantic and Gu	lf Coastal Plain Region
Project/Site: ACP	Citv/C	ounty: Johns	ton
Applicant/Owner: <u>Pomini</u>			tate: NC Sampling Point: Wjoo 023-4
Investigator(s): EST (L ROC	Por RSchwebelic	on, Township, Range: 👖	
Landform (hillslope, terrace, etc.):	INA IL Local	relief (concaye, convex, n	one): <u>none</u> Slope (%): <u>D-4</u>
Subregion (LRR or MLRA):	P 0 Lat: 35.3	.0009 Long: ~	-78.51807 Datum: WGSE
Soil Map Unit Name: <u>Rains S</u>			NWI classification:
Are climatic / hydrologic conditions on the	site typical for this time of year? Y	es No (I	f no, explain in Remarks.)
Are Vegetation, Soil, or Hyd	frology significantly distur	bed? Are "Normal	Circumstances" present? Yes No
Are Vegetation, Soil, or Hy	frology naturally problema	atic? (If needed, ex	xplain any answers in Remarks.)
SUMMARY OF FINDINGS - Atta	ch site map showing sam	pling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	is the Sampled Area	
Hydric Soil Present?	Yes No	within a Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Remarks:			
	<u></u>		
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is re			Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	R U)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced in		Crayfish Burrows (C8)
	Recent Iron Reduction in		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery		~>)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	(2.)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		2.00	······
Surface Water Present? Yes	No Depth (inches):	NH NA	
Water Table Present? Yes	No Depth (inches):	720 Westernel	Hydrology Present? Yes No
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):		· · · · · · · · · · · · · · · · · · ·
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, pr	evious inspections), if ava	ailable:
Remarks:			
Netharks.			
	,		

E

.....

20	Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size: <u>30 x 30 F+</u>)	<u>% Cover Species? Status</u>	Number of Dominant Species
Pinus taeda	<u>15 Y FAC</u>	That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant Species Across All Strata:
		becies Across Air Strata.
•		Percent of Dominant Species
· <u></u>		That Are OBL, FACW, or FAC: (A/B)
·		Prevalence index worksheet:
·		
•		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: $30 \times 30 + t$)		FAC species x 3 =
Plustic Chatter Plustic	V COL	FACU species x 4 =
Acer rubran		UPL species x 5 =
Acer rubrum	<u> </u>	Column Totals: (A) (B)
l		
•		Prevalence Index = B/A =
5		
3		
· · · · · · · · · · · · · · · · · · ·		
		- Dominance Test is >50%
3	107 (Series)	- ☐ 3 - Prevalence Index is ≤3.0 ¹
ř.	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>I</u>	25 20% of total cover: 5	- 1
Herb Stratum (Plot size: 30x 30++)		¹ Indicators of hydric soil and wetland hydrology must
1. none		be present, unless disturbed or problematic.
	······	Definitions of Four Vegetation Strata:
3		
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of mean in diameters of breach brick (DDI)).
4		I more in diameter at breast height (DBH), regardless of height.
5		- -
6		
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 boldet
		_ height.
12		- 1
	= Total Cover	· · · · · · · · · · · · · · · · · · ·
50% of total cover:	20% of total cover:	-
Woody Vine Stratum (Plot size: 30 × 30 ++)		
1. none		
2		
-		-
3		-
4		- {
5		ہو Hydrophytic
	= Total Cover	Vegetation
50% of total cover: _	20% of total cover:	Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptation	s below).	

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the ir	ndicator	or confirm	n the absence	of indicators.)	
Depth	Matrix			x Features			_		
(inches)	<u>Color (moist)</u>	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Rema	arks
0-5	10 YRHA	100					SL		
5-12	104K 414	100		. <u></u>		·	Sch_		
12-70	IONKUZ	Od	10YR Sh	40	Ċ	m	<u>ک</u>		
<u> </u>		· ·	• • • •			·			
						·			
						·			
		. <u></u> .				,,			
	oncentration, D=Dep					rains.		PL=Pore Lining, M=	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)			for Problematic Hy	dric Soils ³ :
Histosol	• •		Polyvalue Be					luck (A9) (LRR O)	
	pipedon (A2)		Thin Dark St					luck (A10) (LRR S)	
	istic (A3)		Loamy Muck			R 0)			side MLRA 150A,B) (F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Ma	•	-2)			alous Bright Loamy S	
	Bodies (A6) (LRR P	ν. Τ . U)	Redox Dark	• •	6)			RA 153B)	5013 (1 20)
	ucky Mineral (A7) (LI		Depleted Da	-	-			arent Material (TF2)	
	resence (A8) (LRR L		🔲 Redox Depr					hallow Dark Surface	e (TF12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (1	LRR U)			Other	(Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc						
	ark Surface (A12)		Iron-Mangar					ators of hydrophytic	
	rairie Redox (A16) (I				•	•		land hydrology musi	-
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR 0, S)	Delta Ochric					ess disturbed or prol	plematic.
	Redox (S5)		Piedmont Fl						
	d Matrix (S6)			-) RA 149A, 153C	. 153D)	
	urface (S7) (LRR P, S	S, T, U)			,	(,,	
	Layer (if observed)								
Type:								`	. /
Depth (in	iches):						Hydric Soil	Present? Yes _	№ <u>⊻</u>
Remarks:									
							,		
1									
1									
1									



Upland data point wjoo023_u facing north.

WETLAND DETERMINATION DATA FORM -- Atlantic and Guif Coastal Plain Region

Project/Site: ACP City/C	ounty: Johnston Sampling Date: 9/17/14
Applicant/Owner: Dominion	State: NC Sampling Point: wjoo023f-w
Investigator(s): EST (LLODer, ESthart) section	
Landform (hillslope, terrace, etc.): Local	
	060,5 Long: -78, 518 23 Datum: WGS 84
	"/4 slopes NWI classification: PFD
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	a start and a start a st
Are Vegetation, Soil, or Hydrology significantly distant	
• •	
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
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)	
Saturation (A3)	
Water Marks (B1)	
Sediment Deposits (B2) Presence of Reduced Iro Drift Deposits (B3) Recent Iron Reduction ir	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5)	
Dundation Visible 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):	1/2 day
Water Table Present? YesNo Depth (inches): Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
inundation in partion	
I municipalities in per mon	as of wetland
could not reach NHD lines	J

----- .

	Absolute	Dominant	Indicator	Sampling Point: wjoo023
		Species?		Number of Dominant Species
Her rubrum	_ 5	<u> </u>	-FAC	That Are OBL, FACW, or FAC: (A)
Lippidam bar Stynicitha	5	-γ-	FAC	
				Total Number of Dominant Species Across All Strata:
			·	Percent of Dominant Species
			<u> </u>	That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
·				Total % Cover of:Multiply by:
_	<u> </u>	= Total Co	ver _	OBL species x 1 =
50% of total cover: 5	20% o	f total cover	:_Z_	FACW species x 2 =
apling/Shrub Stratum (Plot size: 30 x 30 F+)				FAC species x 3 =
Acer subrum	10	Y	FAC	FACU species x 4 =
Liquidambar styniflun	<u> </u>		EDP	UPL species x 5 =
- FIRMAGENE STUMALITIMA				Column Totals: (A) (B)
			<u> </u>	(-)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				A Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
			·	
	15	= Total Co		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7,5				Problematic Hydrophytic Vegetation ¹ (Explain)
	<u>></u> 20% 0	t total cove	<u></u>	
erb Stratum (Plot size: 30 x 30 ft	~	×7	- M A	¹ Indicators of hydric soil and wetland hydrology must
Smilax rotundifolia		. <u> </u>	TH	be present, unless disturbed or problematic.
<u>Vitis rotundifolia</u>	.5	<u> Y </u>	<u>PAC</u>	Definitions of Four Vegetation Strata:
Liquistrum sinchse		÷γ	FAT	
, O			• • • • • • • • • • • • • • • • • • • •	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				
1				Woody vine – All woody vines greater than 3.28 ft in height.
2.				incigut.
	15			
	particular second	= Total Co		
50% of total cover: 7.4	<u>></u> 20% d	of total cove	er: 🔼	.
Voody Vine Stratum (Plot size: 30 x 30 PT.)				
<u>none</u>				
•				- [
				-
•			-	-
•	· _ ·			-
•				- Hydrophytic
	$\underline{\mathcal{O}}$	_ = Total Co	over	Vegetation
50% of total cover:	20%	of total cove	er:	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo				- • • • • • • • • • • • • • • • • • • •
terretries (in observed, not morphological adaptations beit				

.

SOIL

.

ì

Prome Des	cription: (Describe to	o the depth	needed to docum	ient the in	uicator	or comm	the absence	of indicators.)
Depth	<u>Matrix</u>			Features	~ 1	1 2	T	
(inches)	Color (moist)		Color (moist)	_%	Type	_Loc ²	Texture	Remarks
0-1	10116-12	100 _					<u>_5L</u>	
1-8	10 14 3/2	<u> 100 </u>		<u> </u>			<u>s</u>	sulfidic odor
2.20	> 10 YK 4/3	801	04R-4/10	20	\mathcal{C}	M	SL	
-		· ·	· · · · ·					
	• • • • • • • • • • • • • • • • • • • •							
·			<u>.</u>					
			.			<u> </u>		
	Concentration, D=Deple					ains.		PL=Pore Lining, M=Matrix.
<u> </u>	I Indicators: (Applica	ble to all LR						s for Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					Muck (A9) (LRR O)
	Epipedon (A2) Histic (A3)		Thin Dark Su					Muck (A10) (LRR S) ced Vertic (F18) (outside MLRA 150A,B)
	jen Sulfide (A4)		Loamy Gleye			. 0)		nont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Mat	-	-,			alous Bright Loamy Soils (F20)
	c Bodies (A6) (LRR P,	T, U)	📕 Redox Dark S	• •	3)		(ML	.RA 153B)
	lucky Mineral (A7) (LR		Depleted Dar					Parent Material (TF2)
	Presence (A8) (LRR U))		-	5)			Shallow Dark Surface (TF12)
	luck (A9) (LRR P, T)	(A11)	Marl (F10) (L			51)	Uther 🔟	(Explain in Remarks)
=	ed Below Dark Surface Dark Surface (A12)	(ATI)				•	T) ³ Ind	icators of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150A)						etland hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric			•		less disturbed or problematic.
Sandy	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo	-		-		- /
	ed Matrix (S6)		Anomalous E	Bright Loar	ny Soils	F20) (MLR	A 149A, 153	C, 153D)
	Surface (S7) (LRR P, S e Layer (if observed):						1	
Type:								
1	inches):	· · · ·		•			Hydric Sc	il Present? Yes No
Remarks:							1.,	
Remarks.								
1								
	·							
	·							



Wetland data point wjoo023f_w facing south.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County:	Johnston County	Sampling Date: 2/2/2016
Applicant/Owner: Dominion		State: NC	Sampling Point: wjoo023e_w
Investigator(s): GB, AS	Section, Tow	nship, Range: <u>No PLSS in this area</u>	
Landform (hillslope, terrace, etc.): ditch		cave, convex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): P Lat: <u>35.29977408</u>	8	Long: <u>-78.51803442</u>	Datum: WGS 1984
Soil Map Unit Name: Bibb sandy loam, 0 to 2 percent slopes, frequen	ently flooded	NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time of y	year?Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significant	tly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling	point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No			
Remarks:								
Wetland data point for a saturated to seasonally flooded PEM wetland located in an agricultural drainage ditch; connects to PFO section of wetland wioo023.								

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) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u></u> No <u>Depth</u> (inches): <u>6</u>	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes <u>✓</u> No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Ves ✓ No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective O O O	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) Ves ✓ No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective O O O	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	

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

Sampling Point: wjoo023e_w

. ,	Abaaluta	- Daminant I		Deminence Test worksheet
Tree Stratum (Plot size: <u>30</u>)	Absolute	Dominant I Species?		Dominance Test worksheet:
	/0 COVEI	Species	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:5 (A)
2				
				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>83.33333333</u> (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =0
15				FACW species $\frac{75}{x 2} = \frac{150}{x}$
Sapling/Shrub Stratum (Plot size: 13)	-	Vaa	FACU	11 22
1. Rubus argutus	5	Yes	FACU	
2. Liquidambar styraciflua	3	Yes	FAC	FACU species X 4 =
3 Acer rubrum	2	Yes	FAC	UPL species x 5 =0
·				01 203
4				Column Totals: (A) (B)
5				Prevalence Index = $B/A = 2.23$
				Prevalence Index = B/A = 2.23
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
				2 - Dominance Test is >50%
9	- 10			✓ 3 - Prevalence Index is $\leq 3.0^1$
	10	= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 5	20% of	total cover:	2	
Herb Stratum (Plot size: 5)		_		data in Remarks or on a separate sheet)
Juncus effusus	45	Vaa		Problematic Hydrophytic Vegetation ¹ (Explain)
		Yes	FACW	
2. Dichanthelium scoparium	20	Yes	FACW	
3. Arundinaria tecta	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	75	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 37.5		total cover:		
	20 % 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
_{1.} Lonicera japonica	6	Yes	FAC	
2.				
3				
4				
5				Hydrophytic
0				Vegetation Present? Yes V No
		= Total Cove		
50% of total cover: <u>3</u>	20% of	total cover:	1.Z	
Remarks: (Include photo numbers here or on a separate s	heet)			1

Profile Desc	cription: (Describe to	o the dep	th needed to docur	nent the	indicator of	or confirm	n the absence of in	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 4/2	100					SL		
6-18	10YR 5/2	95	10YR 5/6	5	С	М	SCL		
	·				·				
	·				·				
$\frac{1}{1}$ Type: C-C	oncentration, D=Deple	tion PM	-Roducod Matrix MS	S-Mackov	d Sand Gr	inc	² Location: PL-P	ore Lining, M=Matrix.	
Hydric Soil						uns.		s for Problematic H	
Histosol			Dark Surface	(\$7)				Muck (A10) (MLRA 1	
	oipedon (A2)		Polyvalue Be	· ·	ice (S8) (M	LRA 147.		t Prairie Redox (A16)	
	istic (A3)		Thin Dark Su					LRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye	,	, .	, ,	•	nont Floodplain Soils	(F19)
Stratified	d Layers (A5)		 Depleted Mat 	trix (F3)			(MI	LRA 136, 147)	
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	=6)		Very S	Shallow Dark Surface	e (TF12)
	d Below Dark Surface	(A11)	Depleted Dar		. ,		Other	(Explain in Remarks)
	ark Surface (A12)		Redox Depre		,				
	/lucky Mineral (S1) (Ll	RR N,	Iron-Mangan		es (F12) (I	_RR N,			
	A 147, 148)		MLRA 13	,			3		
	Bleyed Matrix (S4)		Umbric Surfa	, ,	•			ors of hydrophytic veg	
	Redox (S5) I Matrix (S6)		Piedmont Flo	•	· ,	•	•	d hydrology must be disturbed or problem	
	Layer (if observed):			lateriai (r		4 127, 147) uniess	disturbed of problem	
Type: no									
									N -
Depth (in	cnes):						Hydric Soil Pre	sent? Yes 🔽	No
Remarks:									



Photo 1 Wetland data point wjoo023e_w facing northeast



Photo 2 Wetland data point wjoo023e_w facing southwest

WETLAND DETERMINATION DATA FO	DRM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP Ci	ity/County: Johnston Sampling Date: 9/17/18
Applicant/Owner: <u>Pominion</u>	State: NC Sampling Point: W100 023-U
Investigator(s): EST (LROPAR, RSCHORTS	ection, Township, Range: NONQ
Landform (hillslope, terrace, etc.):	ocal relief (concave, convex, none): <u>none</u> Slope (%): <u>D-4'</u> /
Subregion (LRR or MLRA): LULE OLat: 35.	30009 Long: -78.51807 Datum: WGS84
	0-2:1. slopes 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 d	isturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (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	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
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)
U Surface Water (A1) U Aquatic Fauna (B13) High Water Table (A2) U Marl Deposits (B15)	
High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide Ou	
	res along Living Roots (C3)
Sediment Deposits (B2)	ed Iron (C4) Crayfish Burrows (C8)
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algai Mat or Crust (B4)	
↓ Iron Deposits (B5) ↓ Other (Explain in Re ↓ Inundation Visible on Aerial Imagery (B7)	emarks) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes NoDepth (inches)	
Water Table Present? Yes No Ver Depth (inches)	
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: Wetland Hydrology Present? Yes No /
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

E

.....

<u>% Cover</u> <u>Species?</u> <u>Status</u>	- I Number of Dominant Species - 7
	_ That Are OBL, FACW, or FAC:
	Total Number of Dominant Species Across All Strata:
	Percent of Dominant Species
	- That Are OBL, FACW, or FAC: (A/B)
	Prevalence index worksheet:
	_
· · · · · · · · · · · · · · · · ·	Total % Cover of: Multiply by:
= Total Cover	OBL species x 1 =
20% of total cover:	FACW species x 2 =
	FAC species x 3 =
V CON	FACU species x 4 =
	UPL species x 5 =
<u> </u>	Column Totals: (A) (B)
	Prevalence index = B/A =
	- Dominance Test is >50%
1175 - 10 - 10	- □ 3 - Prevalence Index is ≤3.0 ¹
a <u></u> = lotal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
斗 🔰 20% of 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) of mean in diameters at breast bright (DBU), secondless of
	_ more in diameter at breast height (DBH), regardless o height.
	- -
	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	Herb – All herbaceous (non-woody) plants, regardless
	 Woody vine – All woody vines greater than 3.28 ft in boight
	_ height.
= Total Cover	· · · · · · · · · · · · · · · · · · ·
20% of total cover:	
	-
	—
	_ {
	— Hydrophytic "
= Total Cover	Vegetation
20% of total cover:	Present? Yes V No
	Total Cover 20% of total cover: 20% of total cover:

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the ir	ndicator	or confirm	n the absence	of indicators.)	
Depth	Matrix			x Features			_		
(inches)	<u>Color (moist)</u>	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Rema	arks
0-5	10 YRHA	100					SL		
5-12	104K 414	100		. <u></u>		·	Sch_		
12-70	IONKUZ	Od	10YR Sh	40	Ċ	m	<u>ک</u>		
·		· ·	• • • •			·			
						·			
						·			
		. <u></u> .				,,			
	oncentration, D=Dep					rains.		PL=Pore Lining, M=	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)			for Problematic Hy	dric Soils ³ :
Histosol	• •		Polyvalue Be					luck (A9) (LRR O)	
	pipedon (A2)		Thin Dark St					luck (A10) (LRR S)	
	istic (A3)		Loamy Muck			R 0)			side MLRA 150A,B) (F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Ma	•	-2)			alous Bright Loamy S	
	Bodies (A6) (LRR P	ν. Τ . U)	Redox Dark	• •	6)			RA 153B)	5013 (1 20)
	ucky Mineral (A7) (LI		Depleted Da	-	-			arent Material (TF2)	
	resence (A8) (LRR L		🔲 Redox Depr					hallow Dark Surface	e (TF12)
1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (1	LRR U)			Other	(Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc						
	ark Surface (A12)		Iron-Mangar					ators of hydrophytic	
	rairie Redox (A16) (I				•	•		land hydrology musi	-
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR 0, S)	Delta Ochric					ess disturbed or prol	plematic.
	Redox (S5)		Piedmont Fl						
	d Matrix (S6)			-) RA 149A, 153C	. 153D)	
	urface (S7) (LRR P, S	S, T, U)			,	(,,	
	Layer (if observed)								
Type:								`	. /
Depth (in	iches):						Hydric Soil	Present? Yes _	№ <u>⊻</u>
Remarks:									
							,		
1									
1									
l I									



Upland data point wjoo023_u facing north.

WETLAND DETERMINATION DATA FO	ORM – Atlantic and Gulf Coastal Plain Region
Project/Site: <u>ACP</u> C	ity/County: Johnston Sampling Date:
Applicant/Owner: Dominion	State: NC Sampling Point: WJ00022f-W
Investigator(s): EST CLROper, R Scharf) s	ection, Township, Range: <u>NA-</u>
	ocal relief (concave, convex, none): Mone Slope (%): 0-4/.
Subregion (LRR or MLRA): <u>LPPP</u> U Lat: <u>35,</u>	29915 Long: -78.51993 Datum: WBS89
Soil Map Unit Name: <u>Rains Sandy Cours, C</u>	1-21, Stopes NWI classification: PFO
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 d	isturbed? Are "Normal Circumstances" present? Yes 📝 No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesNo Hydric Soil Present? YesNo Wetland Hydrology Present? YesNo	Is the Sampled Area within a Wetland? Yes <u>V</u> No
Remarks:	
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)
Lish Mater Table (A1)	
High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide Oc	
	res along Living Roots (C3) Ury-Season Water Table (C2)
Sediment Deposits (B2)	
	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) L Other (Explain in Re Inundation Visible on Aerial Imagery (B7)	marks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): (includes capillary fringe)	Surface Wetland Hydrology Present? Yes Mo No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	

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

·····

Sampling Point: wjoo 022f_w

Tree Stratum (Plot size: 39x3)		Dominant	-	Dominance Test worksheet:
	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. <u>Peer pubrum</u>	1	<u> </u>	- THE	That Are OBL, FACW, or FAC:(A)
2. Pinus tacha	1.70		FAC	Total Number of Dominant
3. QUERCIAS nigra		<u> </u>	HIC	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	35	= Total Cov	er	OBL species x 1 =
50% of total cover:	5 20% of	total cover	7	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3020)	<u></u> 2078 01			FAC species x 3 =
1. Vaccinium Corembosum	e gunuis	N	CAUN	FACU species x 4 =
	· <u>· · · · · · · · · · · · · · · · · · </u>	-5-	- FIC	UPL species x 5 =
2. Acerrubrum	due!!"		-KEC	Column Totals: (A) (B)
4	•			Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1/ Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8		_		\square 3 - Prevalence Index is $\leq 3.0^1$
	25	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 12				
Herb Stratum (Plot size: 30x30)	20/00		·	1
1. WOOWNATTA WEDINTA	11	N	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			FACW	
2. (lothing almitolia	ş.,		FRON	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		·	<u> </u>	
1		= Total Co	* .	
50% of total cover:	<u>U</u> 20% o	f total cove	: <u> </u>	
Woody Vine Stratum (Plot size: 30×30)	1		-AC	
1. Vitis votinditalia		<u> </u>	FAC	
2. Smilas votindifolia		<u> Y </u>	FAC	
3.		1		
4.				
5.				13
····	20	= Total Co		Hydrophytic Vegetation
50% of total cover:	\sim	of total cove	. /	Present? Yes V No
		n total cove	·	
Remarks: (If observed, list morphological adaptations be	IOW).			

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature		1 2	Tast	Damadua
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	_Type ¹ _	Loc ²	Texture	Remarks
170	10412 117		1040 21,					mucky mineral
6-8	<u>104K =/1</u>	70	104R 3/1	<u>SO</u>	<u> </u>	M	15	organie
	<u></u>						••••••••••••••••••••••••••••••••••••••	
		<u></u>						
¹ Type: C=C	oncentration, D=Depl	etion. RM=F	educed Matrix. MS	- S=Maskeo	I Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applica	·····						for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be				ル) <u>ロ</u> 1 cm /	Muck (A9) (LRR O)
1 Januari	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
	istic (A3) en Sulfide (A4)		Loamy Muck			: 0)		ced Vertic (F18) (outside MLRA 150A,B) nont Floodplain Soils (F19) (LRR P, S, T)
	d Lavers (A5)		Depleted Ma		(~~)			alous Bright Loamy Soils (F19) (EKK F, S, T)
	Bodies (A6) (LRR P,	T, U)	Redox Dark	• •	-6)			RA 153B)
anners fa fat	ucky Mineral (A7) (LR		Depleted Dar					arent Material (TF2)
	resence (A8) (LRR U)		Redox Depre	•	8)		· · ·	Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T) d Below Dark Surface	e (A11)	Mari (F10) (L		(MLRA 1	51)		(Explain in Remarks)
	ark Surface (A12)		Iron-Mangan	• •	•	•	T) ³ Indi	cators of hydrophytic vegetation and
	rairie Redox (A16) (N					', U)		tland hydrology must be present,
	Mucky Mineral (S1) (L	.RR 0, S)				04 4500		less disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver	• •	•			
	d Matrix (S6)			-		-	A 149A, 1530	C, 153D)
	ırface (S7) (LRR P, S							
	Layer (if observed):							
Type:							Livelate Cat	
Depth (ir Remarks:	icnes):						Hydric Sol	I Present? Yes <u>V</u> No
Remarks.	a Cillel		(mall)		and the second	AA	< nil	below B'in.
wavu	er mina	YO M	-, como		5			the for the second the second s
							•	
								-
1								



Wetland data point wjoo022f_w facing west.

WETLAND DETERMIN	ATION DATA FORM	A – Atlantic and (Gulf Coastal Pl	ain Region	<u>х</u> т
Project/Site: ACP	City/C	ounty: John:	ston	Sampling Date:	9/17/14
Applicant/Owner: Dovoinion			State: <u>M</u>	Sampling Point:	100022-U
Investigator(s): EST (1- Poper, R	Scharf) Section	n, Township, Range: _	none		. h. a.
Landform (hillslope, terrace, etc.):	ge Local	relief (concave, conve:	х, попе): <u></u> О/	Slope	(%): <u>D-411</u>
Subregion (LRR or MLRA): LRL P	0 Lat: 35,20	<u>1932</u> Long:	-78.51	<u>195</u> Dati	um: <u>WBS<i>B</i>1</u>
Soil Map Unit Name: Hains Sandy	Jann, 0-2;	1. slopes	NWI classifi	cation: <u>NA</u>	
Are climatic / hydrologic conditions on the site typica	I for this time of year? Y	es No	_ (If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "Norm	nal Circumstances"	present? Yes 📈	No 🔌
Are Vegetation, Soil, or Hydrology _	naturally problema	atic? (If needed	l, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site	map showing sam	pling point locat	tions, transect	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes		Is the Sampled Area within a Wetland?	a Yes	No <u>bestation</u>	-
Remarks: Prain within 24	n avr s				
HYDROLOGY					
Wetland Hydrology Indicators:				cators (minimum of	two required)
Primary Indicators (minimum of one is required; ch				il Cracks (B6)	
	Aquatic Fauna (B13)	D 113		egetated Concave	Surface (B8)
	Marl Deposits (B15) (LR Hydrogen Sulfide Odor (-	F	atterns (B10) Lines (B16)	
	Oxidized Rhizospheres			n Water Table (C2)	
	Presence of Reduced In			urrows (C8)	
	Recent Iron Reduction in		Saturation	Visible on Aerial Im	agery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorph	ic Position (D2)	
Iron Deposits (B5)	Other (Explain in Remar	ks)		uitard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutr		
Water-Stained Leaves (B9)			Sphagnum	n moss (D8) (LRR T	, U)
Field Observations: Surface Water Present? Yes No	Depth (inches):	NA			
Water Table Present? Yes No	Depth (inches):				-111/2008
Saturation Present? Yes No			nd Hydrology Pres	ent? Yes	No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitori		evious inspections), if	available:		
					
Remarks:					

.

Sampling Point: wjo022_u

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

1

20.20		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30x30)	<u>% Cover</u>	Species?		Number of Dominant Species
1. Quercus alba	<u> 10</u>		FACH	That Are OBL, FACW, or FAC:(A)
2. Liribden dron tulipitara		<u> </u>	FACU	Total Number of Dominant
3. Pinus talde	$\underline{10}$	<u> </u>	FAC	Species Across All Strata: (B)
4. Liquidambar styraitflug	Erry.	_N	FAC	*
5.				Percent of Dominant Species (OD (A/B))
6				
7		·	·	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	25	= Total Co		OBL species x 1 =
				FACW species x 2 =
50% of total cover: 17,	2 20% of	total cover	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:3Dx(30)	2 Martin	S.I	FACU	FACU species x 4 =
1. Quercus alba		<u> </u>		
2 Liriodendron fulipitan	· <u> </u>	<u> </u>	FACU	UPL species x 5 =
3. Acer rubrum		<u></u>	FAC	Column Totals: (A) (B)
4		1		Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
				1- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
1~		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	<u>}</u> 20% of	f total cove	r:	
Herb Stratum (Plot size: <u>30x30</u>)				¹ Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigantea	anter and a second	<u> </u>	FACW	be present, unless disturbed or problematic.
2. Clethra alhitalia	and the second s	<u> </u>	FACW	Definitions of Four Vegetation Strata:
3. Symplocos tinctoria		Ý	FAC	
4	7 ₀ , -			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
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			<u> </u>	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.				
	15	= Total Co	ver	
50% of total cover:				
Woody Vine Stratum (Plot size: <u>50257</u>)	C	M	FAC	
1. VIAND I OTUNAITOILA				
2		- <u> </u>		
3				
4				
5.				Hydrophytic
	- C	= Total C	over	Vegetation /
50% of total cover: 2	5 20%	•		Present? Yes No
		n total cove		1
Remarks: (If observed, list morphological adaptations be	iow}.			
1				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)				
Depth <u>Matrix</u>	_			
	Color (moist) %	Type1Loc2	Texture Remarks	
<u>U-3 10423/ 100 _</u>				
3-6 1048412 60 11	<u>oneta 4r</u>	<u> </u>	<u>SL</u>	
10-20 104R3/3 60 7.	SYRUE HI	C.M.	lay have	
	······································		· · · · · · · · · · · · · · · · · · ·	
······································	· · · · · · · · · · · · · · · · · · ·	.,		
	······			
¹ Type: C=Concentration, D=Depletion, RM=Red			² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRF	Rs, unless otherwise no	ted.)	Indicators for Problematic Hydric Soils ³ :	
Histosol (A1)		ace (S8) (LRR S, T, U)		
Histic Epipedon (A2)	Thin Dark Surface (S		2 cm Muck (A10) (LRR S)	
Black Histic (A3)	Loamy Mucky Minera		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) Organic Bodies (A6) (LRR P, T, U)	Depleted Matrix (F3) Redox Dark Surface	(ER)	Anomalous Bright Loamy Soils (F20) (MLRA 153B)	
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface	• •	Red Parent Material (TF2)	
Muck Presence (A8) (LRR U)	Redox Depressions (Very Shallow 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)	<u> </u>	
Thick Dark Surface (A12)	Iron-Manganese Mas	ses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and	
Coast Prairie Redox (A16) (MLRA 150A)		•	wetland hydrology must be present,	
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (N		unless disturbed or problematic.	
Sandy Gleyed Matrix (S4)) (MLRA 150A, 150B)		
Sandy Redox (S5)		Soils (F19) (MLRA 149		
Stripped Matrix (S6)	Anomaious Bright Lo	amy Soils (F20) (MLRA	(149A, 153C, 153D)	
Restrictive Layer (if observed):				
Type:				
Depth (inches):	-		Hydric Soil Present? Yes No 🔀	
Remarks:				
Remarks.				
1				



Upland data point wjoo022_u facing east.