Project/Site: ACP City/Cou	inty: Northampton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wnrp009-u
Investigator(s): EST (Roper, Turnbull) Section,	Township, Range: MANC
Landform (hillslope, terrace, etc.): Achingae Local rel	lief (concave, convex, none): COVANT, Slane (%): 75
Subregion (LRR or MLRA): LLLP U Lat: 36, 5280	05 1000: -77,38838 Patrim/s/6689
Soil Map Unit Name: Wehadkee loam, frequently fl	poded MAI description A/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbe	
Are Vegetation, Soil, or Hydrology naturally problematic	
SUMMARY OF FINDINGS – Attach site map showing samp	, , , , , , , , , , , , , , , , , , , ,
	ing point locations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No 1:	s the Sampled Area
Hydric Soil Present? Yes No	vithin a Wetland? Yes No
Wetland Hydrology Present? Yes No V	
	į
Power line right of way	
rain within 24 hrs.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surface Soil Cracks (B6)
High Water Table (A2) Marl Deposits (B15) (LRR	U) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1	<u> </u>
Water Marks (B1) Oxidized Rhizospheres alo	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Presence of Reduced Iron	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in T	illed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks Inundation Visible 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 (inches):N	/A
Water Table Present? Yes No // Depth (inches):	TO /
	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	lous inspections), if available:
Remarks:	

EGETATION (Four Strata) - Use scientific	Absolute		Indicator	Dominance Test work	Sampling Point:	
Free Stratum (Plot size: 30H x 30H)	% Cover					
. wore				Number of Dominant Space Number of Dominant Space That Are OBL, FACW,		(A)
•					***************************************	‹ ›
•				Total Number of Domin	*1	/D)
				Species Across All Stra	ita:	(B)
				Percent of Dominant Sp		ı
				That Are OBL, FACW,	or FAC:	(A/B)
•				Prevalence Index wor	ksheet:	
				Total % Cover of:		bv.
				OBL species		
		= Total Co		1		
50% of total cover:	20% of	total cove	:	FACW species		
Sapling/Shrub Stratum (Plot size: 30H x 30FH)				FAC species		
none				FACU species		
				UPL species		
				Column Totals:	(A)	(B)
•						
				<u> </u>	(= B/A =	
				Hydrophytic Vegetati		
•				Rapid Test for		ation
•				2 - Dominance Te	st is >50%	
				3 - Prevalence Ind	lex is ≤3.0¹	
		= Total Co	ver	Problematic Hydro	phytic Vegetation ¹	(Explain)
50% of total cover:	20% of	f total cove	r:			
<u>Herb Stratum</u> (Plot size: <u>30ft x30ft</u>) 1. <u>Di Chasthelium auuminatur</u>	n 40	<u> </u>	FAC	¹ Indicators of hydric so be present, unless dis		
Andropogon virginicus	15	N	FAL,	Definitions of Four V	egetation Strata:	
Saucharum giganteum	5	<u>N</u>	<u> PACW</u>	Tree Weeks plants		n (7 6 am)
1. ILX DUNIA	,5	N	FAC	Tree – Woody plants, more in diameter at br		
5. Eupatorium capillifolium	15	N	FACI	height.	odot noight (DDI I),	reguration (
7				Sapling/Shrub – Woo than 3 in. DBH and gr		
8				- Herb – All herbaceous	s (non-woody) alan	ts, regardies
9				of size, and woody pla		
10						
11.				 Woody vine – All wor height. 	ody vines greater th	ian 3.28 ft in
12				- Height		
	20	_ = Total C		-		
50% of total cover: _						
		ot total cov	er: <u>5</u>	-		
Woody Vine Stratum (Plot size: 30f+x30f+)		. /	m .A .m			
1. Robus argutus			<u> </u>	_		
2		_		_		
3.				_		
4.				-		
		· v		-		
5				- Hydrophytic		
		_ = Total (_	Vegetation Present?	Yes No_	
50% of total cover: _			ver: 2			

			0.40	
Sampling	Point:	was	6001	_

SOIL

Profile Desc	ription: (Describe	to the dept	needed to docur	nent the	indicator o	or confirm (the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Feature %		_Loc²	Texture	Domastia
0-6	2.5 / 4/3	100	Ocios (moist)		TAPE	<u> </u>	S lexture	Remarks
6-20	2.5 15/2							
10-20	2.5 1013	100					_ كىا	
				-				
				-				
¹ Type: C=Ci	oncentration, D=Det	oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators: (Applic	cable to all L					Indicators fo	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					ck (A9) (LRR O)
Black Hi	oipedon (A2)		Thin Dark St					ick (A10) (LRR S)
==	n Sulfide (A4)		Loamy Muck			(0)		d Vertic (F18) (outside MLRA 150A,B) It Floodplain Soils (F19) (LRR P, S, T)
	i Layers (A5)		Depleted Ma		(· - /			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark					A 153B)
	icky Mineral (A7) (L		Depleted Da					ent Material (TF2)
	esence (A8) (LRR I ick (A9) (LRR P, T)		Redox Depre		-8)			allow Dark Surface (TF12) explain in Remarks)
	d Below Dark Surface		Depleted Oc		(MLRA 1	51)	Time Other (E	Explain in Remarks)
	ark Surface (A12)		Iron-Mangar	ese Mas	ses (F12) (LRR O, P,	T) ³ Indica	tors of hydrophytic vegetation and
	rairie Redox (A16) (', U}		and hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	(LRR 0, S)	Delta Ochric Reduced Ve			ነበል 150명ነ	unles	ss disturbed or problematic.
	Redox (S5)		Piedmont FI				9A)	
☐ Stripped	i Matrix (S6)						A 149A, 153C,	153D)
	rface (S7) (LRR P,							
<u> </u>	Layer (if observed):						/
Type:	ches):							
Remarks:	unes)						Hydric Soil F	Present? Yes No
, , , , , , , , , , , , , , , , , , , ,								
1								ļ
								!



Upland data point wnrp009_u facing west.

City/County: Northam Oton Sampling Date: 4/8/15
State: NC Sampling Point: Wnr P 009e-W
Section, Township, Range: YONE
Local relief (concave, convex, none): LONLANC Slope (%): 2-5
.5281\ Long: <u>-77, 38832</u> Datum: <u>W6684</u>
thy flooded NWI classification: PEM
/ear? Yes No (If no, explain in Remarks.)
ly disturbed? Are "Normal Circumstances" present? Yes No
oroblematic? (If needed, explain any answers in Remarks.)
g sampling point locations, transects, important features, etc.
Is the Sampled Area within a Wetland? Yes No
Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) pheres along Living Roots (C3) Dry-Season Water Table (C2) fuced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) In Remarks) Sphagnum moss (D8) (LRR T, U)
nes): NA
nes):o
nes): _ <u>5vxface</u> Wetland Hydrology Present? Yes No
notos, previous inspections), if available:

,	Absolute Do	minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ftx 30ft)		pecies? Status	
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3.			Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: 100 (A/B)
6			
7.			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
8			
	<u> </u>	otal Cover	OBL species x1 =
50% of total cover:	20% of tota	al couer	FACW species x 2 =
30% of total cover.	2070 01 100	ai covei	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ftx30fft)			1
1. none			FACU species x4=
2			UPL species x 5 =
			Column Totals: (A) (B)
3		.	(7)
4			Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators:
6			Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8			3 - Prevalence Index is ≤3.0¹
	<u>U</u> =T	otal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of tot	tal cover:	
Herb Stratum (Plot size: 30f4 x 30f4)			
		V -01	¹Indicators of hydric soil and wetland hydrology must
1. Adropagan virginicus	<u> </u>	Y FAC	be present, unless disturbed or problematic.
2. Junius effusus	15	1 OBL.	Definitions of Four Vegetation Strata:
3. Dichanthelium alumination		Y FAC	,
	20		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			
9			of size, and woody plants less than 3.28 ft tall.
10			ARI In the state of the sta
			troomy time time troomy tribod greater triber to me
11.			_ height.
12.			_
	7.5 =	Total Cover	
50% of total cover: 3			
	110 20% of to	otal cover:	_
Woody Vine Stratum (Plot size: 304x30f4)			
1. Pubos arautus	25	Y FAC	
/ /			-
2			 (
3			
i			-
4.			-
5			- Hydrophytic
	25 =	Total Cover	Vegetation
			Present? Yes No
50% of total cover: 1	<u>いつ</u> 20% of t	otal cover:	
Remarks: (If observed, list morphological adaptations b	elow).	•	
Course like via htofing.			
power line right of way			
İ			

Depth (inches)	Matrix			x Features		n contin	the absence of i	nuicators.)
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
<u>0-5</u>	2.544/1	100					SCL_	
<u>5-8</u>	2,544/1	95	LOYR 46	<u>5</u>	<u> </u>	PL	5CL	
B-20	2.5 75/1	95	10/2/16	5	C	PL	5CL	
•			1- 12			1		
				<u> </u>				-
	e	· 						
Type: C=C	oncentration, D=Dep	letion, RM=F	educed Matrix, M	S=Masked	Sand Gra	ins.		=Pore Lining, M=Matrix.
Histosol	Indicators: (Application)	abie to all Li			•		 1	Problematic Hydric Soils ³ :
	pipedon (A2)		Polyvalue Be					k (A9) (LRR O)
	istic (A3)		Loamy Muck					k (A10) (LRR S) Vertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		amy Gleye			-,		Floodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma	- ,				is Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark				□ (MLRA	
Muck P	ucky Mineral (A7) (LF resence (A8) (LRR U	(KP, 1, 0)	Depleted Da Redox Depre					nt Material (TF2) Iow Dark Surface (TF12)
	uck (A9) (LRR P, T)	,	Marl (F10) (L		2)			plain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc	•	(MLRA 1	51)		plant in a tollianto,
	ark Surface (A12)		Iron-Mangar				T) ³ Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (M					, U)		d hydrology must be present,
	Mucky Mineral (S1) (L Gleyed Matrix (S4)	-KK (), S)	Delta Ochric Reduced Ve			0 A 4 E 0 D 1		disturbed or problematic.
	Redox (S5)		Piedmont Fl					
Strippe	d Matrix (S6)						RA 149A, 153C, 1	53D)
Dark St	ırface (S7) (LRR P, S	3, T, U)						•
_	Layer (if observed):	i				_		<i>/</i>
Type:	1							
Depth (ir	iches):						Hydric Soil Pr	esent? Yes V No No
Remarks;								
Remarks;	<u> </u>							
Remarks:								
Remarks:								
Remarks:								
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emarks;								



Wetland data point wnrp009e_w facing east.

Project/Site: ACP City/C	County: Northam pton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Nr. COU9EW
Investigator(s): EST (Roper, Turnbull) Section	on, Township, Range: <u>none</u>
Landform (hillslope, terrace, etc.): drawage Local	relief (concave, convex, none): 1000 ave Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36,527	945 Long: -77, 388 08 Datum: W/584
Subregion (LRR or MLRA): LPP Lat: 310,527 Soil Map Unit Name: We had Kee Journ, frequently	flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Y	(es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally problem	• — —
SUMMARY OF FINDINGS - Attach site map showing san	,
Hydrophylic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Welland Hydrology Present? Yes No No Remarks:	
Remarks.	
Rain within 24hrs.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (86)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LR	
Saturation (A3) Hydrogen Sulfide Odor	
Water Marks (B1) Conditional Report (B2) Oxidized Rhizospheres	
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced in Recent Iron Reduction in	= '
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
☐ Iron Deposits (B5) ☐ Other (Explain in Remai	= · · · · · · · · · · · · · · · · · · ·
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? Yes No Depth (inches):	NA
Surface Water Present? YesNo Depth (inches):No Depth (inches):No Depth (inches):No Depth (inches):No	
Saturation Present? Yes No Depth (inches): 4	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	
Tomano.	
•	

Sampling Point: Wnrp007f_w

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

	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 304 x 30 ft)		Species?		
1. Betula niava	30	N	FACH	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. TATION VILLAVIA				That Are OBL, FACW, or FAC: (A)
2. Carpinus Ucaroliniana	_5_	<u></u>	EAC	Total Number of Dominant
3. Acer Nonn	15		FAC	Species Across All Strata: 8 (B)
4. Der Davia	10	N.	FAC	
		N		Percent of Dominant Species
5. Liquidumbar styracitla	10	14	FAC	That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8.				
		= Total Co		OBL species x 1 =
50% of total cove <u>r</u> : <u>35</u>	20% o	f total cover	14	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304x30ft)				FAC species x3 =
	1 7	17	CIAC	FACU species x 4 =
1. Carpinos caroliniana			FAC	
2. Alex rubgam	10	Y	FAC	UPL species x 5 =
2 7 6 4 6 6 6 6 6		V	FAC	Column Totals: (A) (B)
3. Ilex spain		· }	<u>tnv</u>	
4.				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				☐ 1→ Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0°
	25	= Total Co		1 =
Proved				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 17:	<u> </u>	of total cove	r: <u> </u>	
Herb Stratum (Plot size: 304 x 304)				har the second of the second o
T	. /	V	001	Indicators of hydric soil and wetland hydrology must
1. Juneus offisus	. <u>15</u>	- 1	_0BL_	be present, unless disturbed or problematic.
2. Arundinavia gigantea	15	<u> </u>	FACW	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				O Pro Potential Market Control of the Control
				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.
				or orse, and woody plants less than o.20 it talk
10				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12				
1-1	20			-
	100	_ = Total C		
50% of total cover:	20%	of total cov	er: <u> </u>	_ [
Woody Vine Stratum (Plot size: 30ft x30ft)	-			
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	١.	vi	~ 11 ~	
1. Smilax rotundifolia	<u> </u>		<u> FAC</u>	-
2				
				-
3				-
4				_
5				I the described to
	- 16			- Hydrophytic
		= Total C		Vegetation Present? Yes No
50% of total cover:	<u>5</u> 20%	of total cov	/er: <u> </u>	Present? Yes V No
Remarks: (If observed, list morphological adaptations be				
The state of the s	515VV).			
Ì				

Sampling Point: www.pb/9f.w

Profile Desc	ription: (Describe	to the dept	h needed to docur		r or confirm t	the absence of in-	dicators.)
Depth	Matrix		Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%Type ¹	Loc ²	<u>Texture</u>	Remarks
0-20	2.5/3/	100				CL	
-	, , , , , , , , , , , , , , , , , , ,						
							
	-						
···	~						
							9
Tyme: C=C	oncentration D-De	nintian DM-	Reduced Matrix, M	- — — — — — — — — — — — — — — — — — — —	 -	2, , , , ,	
Hydric Soil	Indicators: /Annie	pielion, rovi-	LRRs, unless othe	S=Wasked Sand C	rains.	Location: PL=I	Pore Lining, M=Matrix.
		canie io ali					Problematic Hydric Soils³:
Histosol	1 .			elow Surface (S8)			(A9) (LRR O)
	oipedon (A2)			ırface (S9) (LRR s			(A10) (LRR S)
	istic (A3)		Loamy Muck	y Mineral (F1) (LF	RO)	Reduced Ve	ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma				Bright Loamy Soils (F20)
	Bodies (A6) (LRR I			Surface (F6)		(MLRA 1	
5 cm Mi	ıcky Mineral (A7) (L	.RR P, T, U)		rk Surface (F7)			Material (TF2)
	esence (A8) (LRR		Redox Depre				w Dark Surface (TF12)
	Jck (A9) (LRR P, T)		Marl (F10) (I				ain in Remarks)
	d Below Dark Surfa			hric (F11) (MLRA	151)	(Evb.	
	ark Surface (A12)	` '		nese Masses (F12		T) ³ Indicators	s of hydrophytic vegetation and
	rairie Redox (A16)	(MLRA 150)	A) Umbric Surf	ace (F13) (LRR P	T. 11)		hydrology must be present,
Sandy I	fucky Mineral (S1)	(LRR O. S)		(F17) (MLRA 15	11, 0,		listurbed or problematic.
	Gleyed Matrix (S4)	(4.0.0)		rtic (F18) (MLRA		unicss c	instalbed of problematic.
	Redox (S5)			oodplain Soils (F1		2.41	
	i Matrix (S6)					•	
	rface (S7) (LRR P,	ети	III Anomalous	Dignic Loainy Son	5 (F20) (WILK)	A 149A, 153C, 153	נחו
	Layer (if observed						
	Layer (II observed);					
Type:							,
Depth (ir	iches):					Hydric Soil Pre	sent? Yes No
Remarks:							
				•			



Wetland data point wnrp009f_w facing east.

Project/Site: ACP City/Cou	inty: Northampton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wnrp009-u
Investigator(s): EST (Roper, Turnbull) Section,	Township, Range: MANC
Landform (hillslope, terrace, etc.): Achingae Local rel	lief (concave, convex, none): COVANT, Slane (%): 75
Subregion (LRR or MLRA): LLLP U Lat: 36, 5280	05 1000: -77,38838 Patrim/s/6689
Soil Map Unit Name: Wehadkee loam, frequently fl	poded MAI description A/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbe	
Are Vegetation, Soil, or Hydrology naturally problematic	
SUMMARY OF FINDINGS – Attach site map showing samp	, , , , , , , , , , , , , , , , , , , ,
	ing point locations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No 1:	s the Sampled Area
Hydric Soil Present? Yes No	vithin a Wetland? Yes No
Wetland Hydrology Present? Yes No V	
	į
Power line right of way	
rain within 24 hrs.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surface Soil Cracks (B6)
High Water Table (A2) Marl Deposits (B15) (LRR	U) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1	<u> </u>
Water Marks (B1) Oxidized Rhizospheres alo	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Presence of Reduced Iron	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in T	illed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks Inundation Visible 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 (inches):N	/A
Water Table Present? Yes No // Depth (inches):	TO /
	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	lous inspections), if available:
Remarks:	

EGETATION (Four Strata) - Use scientific	Absolute		Indicator	Dominance Test work	Sampling Point:	
Free Stratum (Plot size: 30H x 30H)	% Cover					
. wore				Number of Dominant Space Number of Dominant Space That Are OBL, FACW,		(A)
•					***************************************	‹ ›
•				Total Number of Domin	*1	/D)
				Species Across All Stra	ita:	(B)
				Percent of Dominant Sp		ı
				That Are OBL, FACW,	or FAC:	(A/B)
•				Prevalence Index wor	ksheet:	
				Total % Cover of:		bv.
				OBL species		
		= Total Co		1		
50% of total cover:	20% of	total cove	:	FACW species		
Sapling/Shrub Stratum (Plot size: 30H x 30FH)				FAC species		
none				FACU species		
				UPL species		
				Column Totals:	(A)	(B)
•						
				<u> </u>	(= B/A =	
				Hydrophytic Vegetati		
•				Rapid Test for		ation
•				2 - Dominance Te	st is >50%	
				3 - Prevalence Ind	lex is ≤3.0¹	
		= Total Co	ver	Problematic Hydro	phytic Vegetation ¹	(Explain)
50% of total cover:	20% of	f total cove	r:			
<u>Herb Stratum</u> (Plot size: <u>30ft x30ft</u>) 1. <u>Di Chasthelium auuminatur</u>	n 40	<u> </u>	FAC	¹ Indicators of hydric so be present, unless dis		
Andropogon virginicus	15	N	FAL,	Definitions of Four V	egetation Strata:	
Saucharum giganteum	5	<u>N</u>	<u> PACW</u>	Tree Weeks plants		n (7 6 am)
1. ILX DUNIA	,5	N	FAC	Tree – Woody plants, more in diameter at br		
5. Eupatorium capillifolium	15	N	FACI	height.	odot noight (DDI I),	reguration (
7				Sapling/Shrub – Woo than 3 in. DBH and gr		
8				- Herb – All herbaceous	s (non-woody) alan	ts, regardies
9				of size, and woody pla		
10						
11.				 Woody vine – All wor height. 	ody vines greater th	ian 3.28 ft in
12				- Height		
	20	_ = Total C		-		
50% of total cover: _						
		ot total cov	er: <u>5</u>	-		
Woody Vine Stratum (Plot size: 30f+x30f+)		. /	m .A .m			
1. Robus argutus			<u> </u>	_		
2		_		_		
3.				_		
4.				-		
		· v		-		
5				- Hydrophytic		
		_ = Total (_	Vegetation Present?	Yes No_	
50% of total cover: _			ver: 2			

			0.40	
Sampling	Point:	was	6001	_

SOIL

Profile Desc	ription: (Describe	to the dept	needed to docur	nent the	indicator o	or confirm (the absence of	indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Feature %		_Loc²	Texture	Domastia
0-6	2.5 / 4/3	100	Ocios (moist)		TAPE	<u> </u>	S lexture	Remarks
6-20	2.5 15/2							
10-20	2.5 1013	100					_ كىا	
				-				
				-				
¹ Type: C=Ci	oncentration, D=Det	oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators: (Applic	cable to all L					Indicators fo	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					ck (A9) (LRR O)
Black Hi	oipedon (A2)		Thin Dark St					ick (A10) (LRR S)
==	n Sulfide (A4)		Loamy Muck			(0)		d Vertic (F18) (outside MLRA 150A,B) It Floodplain Soils (F19) (LRR P, S, T)
	i Layers (A5)		Depleted Ma		(· - /			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark					A 153B)
	icky Mineral (A7) (L		Depleted Da					ent Material (TF2)
	esence (A8) (LRR I ick (A9) (LRR P, T)		Redox Depre		-8)			allow Dark Surface (TF12) explain in Remarks)
	d Below Dark Surface		Depleted Oc		(MLRA 1	51)	Time Other (E	Explain in Remarks)
	ark Surface (A12)		Iron-Mangar	ese Mas	ses (F12) (LRR O, P,	T) ³ Indica	tors of hydrophytic vegetation and
	rairie Redox (A16) (', U}		and hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	(LRR 0, S)	Delta Ochric Reduced Ve			ነበል 150명ነ	unles	ss disturbed or problematic.
	Redox (S5)		Piedmont FI				9A)	
☐ Stripped	i Matrix (S6)						A 149A, 153C,	153D)
	rface (S7) (LRR P,							
<u> </u>	Layer (if observed):						/
Type:	ches):							
Remarks:	unes)						Hydric Soil F	Present? Yes No
110111011								
•								ļ
								!



Upland data point wnrp009_u facing west.

City/County: Northam Oton Sampling Date: 4/7/15
State: NC Sampling Point: Whrip 008e-w
Section, Township, Range:^one
Local relief (concave, convex, none): 1000 Slope (%): 2-5 52873 Long: -77, 38599 Datum: W6584
52873 Long: -77, 38599 Datum: W6584
-21. Slopes NWI classification: PEM
ear? Yes No (If no, explain in Remarks.)
disturbed? Are "Normal Circumstances" present? Yes No
oblematic? (If needed, explain any answers in Remarks.)
g sampling point locations, transects, important features, etc.
Is the Sampled Area within a Wetland? Yes No
J
Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) ction in Tilled Soils (C6) E (C7) Remarks) Secondary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
s):
tos, previous inspections), if available:
, production of the second

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

Dominance Tests worksheet: Dominance Test		Absoluto	Dominant	Indicator	Dominance Test worksheet:
1	Tree Stratum (Ptot size: 304 x 304)				
2. 3. 3. 4. 5. 5. 6. 7. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.					
3.					I hat Are OBL, FACW, or FAC:(A)
Species Across Al Strate:	2.				Total Number of Dominant
## Percent of Dominant Species That Are OBL, FACW, or FAC: LOD (A/B)	3.				Alexander 1
5.					Openica Aniona and Charles
That Are OBL, FACW, or FAC: 100 (A/B)					Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = FACW species x3 = FACW species x3 = FACW species x4 = UPL species x4 = U	5				
Total 36 Cover of Multiply by:					
Sapiling/Shrub Stratum (Plot size: 300+x300+x) Soft of total cover: 20% of total cover: FACW species x2 = FACW species x2 = FACW species x3 = FACW species x3 = FACW species x4 = UPL species x4 = UPL species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x5 = Column Totals: (A) (B) Prevalence Index = B/A =					Prevalence Index worksheet:
Sabling/Shrub Stratum (Plot size: 30ff x 30ft) Sabling Shrub					Total % Cover of: Multiply by:
FACW species X 2 =	8				
Solitor Stratum (Plot size: SOFF x 30FF) Soff total cover: 20% of total cover: FACV species x 2 = FACV species x 3 = FACV species x 4 =		O	= Total Co	ver	
FAC species X 3 = FAC species X 3 = FAC species X 4 = UPL species X 5 = Column Totals: (A) (B)	50% of total cover:				FACW species x 2 =
	30% of total cover.	2070 0	i total cove		FAC species x 3 =
UPL species					
2.	1. <u>none</u>				
4.					UPL species x 5 =
Prevalence Index = B/A =					Column Totals: (A) (B)
Hydrophytic Vegetation Indicators:	3.				
Hydrophytic Vegetation Indicators:	4,				Prevalence Index = R/A =
6. 7. 8. 9. Total Cover 20% of total cover: 20					
7. 8. 8. 9. 1 Total Cover 20% of total cover: 1. Tuncus effects 20 / OBL 2. Dichard the form accommon 20 / PRC 3. 3. Prevalence Index is \$3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation² (Explain) Problematic Hyd					
8	6,	-		-	1- Rapid Test for Hydrophytic Vegetation
8	7				
Total Cover					
50% of total cover: 20% of total cover: 1. Juncus efficient 20	O				
So% of total cover: 20% of total cover: 1. Tuncus efficiency 20 y oblighted by the present, unless disturbed or problematic. 2. Dichan the firm accompation 20 y FRC 3.			= Lotal Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Juncus efficas 20	50% of total cover:	20% o	f total cove	r:	
1. Juncus efficas 20	Herh Stratum (Plot size: 30ff x 30ff				f4 15 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. Dichan Helium acomination 20 Y PAC 3.	Total Color of Color	20	w/	501	
3	1. JUNIOUS RAMINOS		· - 1		
4	2. Dicharthelium acominatum	<u> 70</u>	. <u> </u>	PHC	Definitions of Four Vegetation Strata:
4	3.		′		
5					
6	4				
6	5				height.
7					Continue Character Management and Continue times land
8	1				
9	7	-			than 5 m. Don and greater than 3.26 k (1 m) tall.
9	8			_	Herb - All berbaceous (non-woody) plants regardless
10					
11	•				1
11					Woody vine - All woody vines greater than 3.28 ft in
10	11	<u></u>			
10	12.				
50% of total cover: 20 20% of total cover: 8 Woody Vine Stratum (Plot size: 30ff x 30ff x) 1. @ubus argutus 20 / Fift x 2		LIO	T-4-10		
Woody Vine Stratum (Plot size: 30ff x 30ff) 1. @vlovs argutvs 20 / Fito 2			-	F. 54 ²⁰ 6	
Woody Vine Stratum (Plot size: 30ff x 30ff) 1. @vlovs argutvs 20 / Fito 2	50% of total cover:	<u>/</u> 20% c	of total cove	er:	
1.	Woody Vine Stratum (Plot size: 3054 x 3054)				
2		つわ	V	ر فرسهارت	
3		625	- - 	- PIIO	
5	2				
5	3.				
5			-		
20 = Total Cover Vegetation Present? Yes No No	4				
20 = Total Cover Vegetation Present? Yes No	5				Hydrophytic
50% of total cover: 10 20% of total cover: 4 Present? Yes V No		20	= Total C	over	
50% of total cover: 10 20% of total cover: 1	700/ 61 / 1				Present? Yes V No
Remarks: (If observed, list morphological adaptations below).	50% of total cover:	20%	of total cove	er:	
	Remarks: (If observed, list morphological adaptations be	low).			
	1				

Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	
0-4 2.5 /3/2 100 56	
4-20 2.5 y 4/2 95 10 y £ 5/6 5 C M 56	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils	: \
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	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRF	R P, S, T)
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Parks Park Surface (F6)	
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)	
Muck Presence (A8) (LRR U)	
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) Iron-Manganese Masses (F12) (LRR O, P, T)	and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be preser	
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): Hydric Soil Present? Yes V No)
Remarks:	



Wetland data point wnrp008e_w facing east.

Project/Site: ACD	City/County: North worth Sampling Date: 4/7/15
Applicant/Owner: Dominton	State: NC Sampling Point: Whrp 008f-w
Investigator(s): EST Leoper, Tornbull)	Section, Township, Range: <u>Yつから</u>
Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): LON/AVE Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36.	52868 Long: -77, 38594 Datum: W6684
Soil Map Unit Name: Goldshow Sandy loam O	-Z'1, Slopes NWI classification: PFO
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	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No	within a Wetland? Yes No.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2)	Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Odor (C1) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2) Icced Iron (C4) Crayfish Burrows (C8) Ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) E (C7) Geomorphic Position (D2)
Surface Water Present? Yes No Depth (inche: Water Table Present? Yes No Depth (inche: Depth (inche: No No Depth (inche: No	s):
Water Table Present? YesNo Depth (inches	s): <u>surface</u>
Saturation Present? Yes No Depth (inchesting includes capillary fringe)	s): SUFFACE Wetland Hydrology Present? Yes / No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

Sampling Point: WNTP 0086-W

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

	Absolute	Dominant	Indiantas	Daring tone
Tree Stratum (Plot size: 30ff x 30ff)		Dominant Species?		Dominance Test worksheet:
1. Pinus taeda			FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
		$\overline{}$	FAC	That Are OBL, FACW, or FAC:(A)
2. Acer robrum				Total Number of Dominant
3. Ilex opara			FAC	Species Across Ali Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Are OBL, FACW, or FAC: 100 (A/B)
7			·	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				
_		= Total Cov		OBL species x 1 =
50% of total cover: 25	20% of	total cover:	O	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3044 x30ft)				FAC species x 3 =
1. Ilex opaca	15	<u> </u>	FAC	FACU species x 4 =
				UPL species x 5 =
2				
3.				Column Totals:(A)(B)
4				Prevalence Index = B/A =
5				
6.		****		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
	15	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 1,5	20% o	f total cover:	. 3	En Froblemado Frydrophrydd Vegetaddi) (Explain)
Herb Stratum (Plot size: 30C1 x 30C1)				
d (n A				Indicators of hydric soil and wetland hydrology must
1. hone				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				T 10/
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				1
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				
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	&	= Total Co	ver .	The state of the s
50% of total cover:	20% c	f total cover	••	
Woody Vine Stratum (Plot size: 30f4 x 30 ff)	2070 0	1 10121 00401	•	
vvoody ville stratum (Plot size: Day 10001)		17	- A.	
1. Smilax rotundifolia	15	<u> </u>	<u>FAC</u>	
2				
3				
4				
				·
5		•		Hydrophytic /
,	15	_ = Total Co	ver _	Vegetation /
50% of total cover: 113	20% (of total cove	r: ろ	Present? Yes V No
Remarks: (If observed, list morphological adaptations bel	0140			
Tromanio (n obodivod, nat morphological adaptations bei	011).			
				•

Sampling Point: wnrp008f_u	j
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SOIL

	cription: (Desc	cribe to the dep	th needed to docur			or confirm	the absence of	indicators.)
Depth _(inches)	Ma Color (moi	trix st) %	Redo Color (moist)	x Features		_Loc²	Texture	Remarks
6-4	Z 15 Y 3/		Objet (moiat)		1,400		SL	Remarks
4-20			10 YR5/6			N. 4	5 <u>L</u>	
1.00	<u> </u>	73	10 /- 16					

	-			-				** ***********************************
¹Tyne: C=C	oncentration D	=Depletion RMs	Reduced Matrix, M	S=Masked	Sand Gr		2l acation: B	L=Pore Lining, M=Matrix.
			LRRs, unless othe			111160.	Indicators fo	pr Problematic Hydric Soils ³ :
Histoso		•	☐ Polyvalue Be		•	RR S, T, U		ck (A9) (LRR O)
	pipedon (A2)		Thin Dark St				· —	ck (A10) (LRR S)
	istic (A3)		Loamy Muck			O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gley		F2)			t Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (L	RRPT II)	Depleted Ma		·6)			us Bright Loamy Soils (F20)
					•			ent Material (TF2)
Muck P	resence (A8) (L	.RR U)	Redox Depre					allow Dark Surface (TF12)
	uck (A9) (LRR I		Marl (F10) (I				U Other (E	xplain in Remarks)
	d Below Dark S ark Surface (A1	, ,	Depleted Oc				→ 3r	
		12) 16) (MLRA 150)	iron-Mangar 🔲 Umbric Surfa					ors of hydrophytic vegetation and nd hydrology must be present,
		(S1) (LRR O, S)	Delta Ochric			, 0,		s disturbed or problematic.
	Gleyed Matrix (Reduced Ve			0A, 150B)		
	Redox (S5)		Piedmont FI					
	i Matrix (S6)		☐ Anomalous	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 1	153D)
	ırface (S7) (LRI Layer (if obse							
Type:	Layer (II obse	iveuj.						
	iches).						Hydric Soil P	resent? Yes No
Remarks:							Trydite 30ii F	resentr res V No
1								
								,
L								



Wetland data point wnrp008f_w facing east.

Applicant/Owner: Dominion State: MC Sampling Point: white 008_u Investigator(s): ESS (Roper, Turnbull) Section, Township, Range: none Local relief (concave, convex, none): Concave Slope (%): 2-5 Subregion (LRR or MLRA): Lete P Lat: 36 52871 Long: 77.38549 Datum: W6584 Soil Map Unit Name: Goldsboro Sundy Ioan, 0-21.510 pcs 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 "Normal Circumstances" present? Yes No 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 Is the Sampled Area within a Wetland? Yes No Remarks: POWER 15 West of Way Sampling Point: Whire Power 1008 under property Slope (Shory) Slope (%): 2-5 Datum: W6584 No (If no, explain in Remarks.) No (If no, explain in	Project/Site: A CP	City/County: Northam Oton Sampling Date: 4/7/15
Investigator(s): EST (Ro QW, TUY NOUT) Section, Township, Range:	Applicant/Owner: <u>Dorminio</u> n	State: NC Sampling Point: Whirp OO8_u
Local relief (concave, convex, none): LOCAL Slope (%): 2 - Subregion (LRR or MLRA): LF P Lat: 36 : 32 27 Long: 7 3 3 4 9 Datum: Western Lat: 36 : 32 27 Long: 7 3 3 4 9 Datum: Western Long: 7 4 5 10 6 2	Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: 1000 4
Subregion (LRR or MLRA): LEF Lat: 30:32871 Long: 77.38599 Datum: W6564 M 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 "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Is the Sampled Area within a Wetland? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Indicators: Primary Indicators (Indicators (Indicat	Landform (hillstone torrose etc.): () () () ()	Local collection (company) (CNO) and a company of the company of t
Are Vegetation	Subregion (LRR or MLRA): LR P Lat: 36	32871 Long: 77,38599 Datum: W6588
Are Vegetation	Soil Map Unit Name: Goldsboro Sundy loam,	0-21. 5/0 PCD NWI classification: NA
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No 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 Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetation Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetation Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetate Concave Surface (BB) Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Vater (A1) Surface Vater (A1) Aquatic Fauna (B13) Drainage Patterns (B10) Moss Trim Lines (B16) Drainage Patterns (B10) Moss Trim Lines (B1	Are climatic / hydrologic conditions on the site typical for this time of ve	ear? Yes No (If no explain in Remarks.)
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 Welland Hydrology Present? Yes No	/	·
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Welland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Water Marks (B1) Secondary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Surface Water (A1) Hydrogon Sulfide Color (C1) Surface Water (A1) Proseno Water (B1) Secondary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Presence Surface Water Table (C2) Crayfish Burrows (C8) Surface Water (B1) Thin Muck Surface (C7) Recent Iron Reduction in Tilled Soits (C6) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Ye		
Hydrology Present? Wetland Hydrology Indicators: Power live vight of uses Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Aquatic Rhizospheres along Living Roots (C3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Table Present? Wetland Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Ves No		,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Drainage Patterns (B10) Advatic Ratiospheres along Living Roots (C3) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Induction Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydric Soil Present? Wetland Hydrology Present? Remarks:	
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) Saturation (A3) Water Marks (B1) Double (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Version (Da) Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLOGY	
Surface Water (A1)		
High Water Table (A2)		Surface Soil Cracks (B6)
Saturation (A3)		一
Water Marks (B1)		
Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Presence of Reduced Iron (C4) Grayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Depth (inches): Seturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Yes No No Depth (inches): Yes No No Depth (inches): Yes No No No Depth (inches): Yes No No No No Depth (inches): No No No No No No No No No N		= ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U) ☐ Sphagnum moss (D8) (LRR T, U) ☐ Surface Water Present? Yes No Depth (inches): ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): NH Depth (inches): > 20 Saturation Present? Yes No Depth (inches): > 20 Saturation Present? Yes No Depth (inches): > 20 Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	<u> </u>	= ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Field Observations: Surface Water Present? Yes No Depth (inches): Yes Yes Yes No Depth (inches): Yes	Inundation Visible on Aerial Imagery (B7)	
Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): 20 Saturation Present? Yes No Depth (inches): 20 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Saturation Present? Yes No Depth (inches): > TO Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Saturation Present? Yes No Depth (inches): > TO Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes No Depth (inche:	s): <u>N</u> #
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		/
	(includes capillary fringe)	
Remarks:		,
	Remarks:	And the second s

	Absolute Dom	inant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30++ x30++)	% Cover Spe			
1. none			Number of Dominant Species That Are OBL, FACW, or FAC:	2(A)
2.				(,
3.			Total Number of Dominant Species Across All Strata:	3 (B)
4.			Species Across Air Strata.	<u> </u>
			Percent of Dominant Species	11-1
5.			That Are OBL, FACW, or FAC:	66/1 (A/B)
6			Prevalence Index worksheet:	
7				ultiply by:
8.			OBL species x1=	
	= Tota	al Cover	1	
50% of total cover:	20% of total	cover:	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30++ 30++)			FAC species x 3 =	
1. vone			FACU species x 4 =	
2			UPL species x 5 =	
3.			Column Totals: (A)	(B)
4.				
			Prevalence Index = B/A =	
5			Hydrophytic Vegetation Indicators	
6			Rapid Test for Hydrophytic \	/egetation
7.			2 - Dominance Test is >50%	
8			3 - Prevalence Index is ≤3.0°	
	(') = Tot		Problematic Hydrophytic Veget	ation¹ (Explain)
50% of total cover:	20% of total	cover:		
Herb Stratum (Plot size: 30ft x 30ft)			¹ Indicators of hydric soil and wetland	d hydrology must
1. Androsogon Virginius	15	Y FAC	be present, unless disturbed or prot	
2. Eupatorium capillifolium	15	y facu	Definitions of Four Vegetation St	rata:
3				
4.			Tree – Woody plants, excluding vin	
			more in diameter at breast height (I height.	JBH), regardless of
5.				
6			Sapling/Shrub - Woody plants, ex	cluding vines, less
7			than 3 in. DBH and greater than 3.2	28 ft (1 m) tail.
8.			Herb - All herbaceous (non-woody	
9.			of size, and woody plants less than	3.28 ft tall.
10			Woody vine – All woody vines grea	ater than 3.28 ft in
11.			height.	2007 (11011 0.20 11 11
12				
	30 = To	tal Cover		
50% of total cover:	5 20% of tota			
Woody Vine Stratum (Plot size: 30 ff x 30 ff)	2070 01 1010		•	
1. 2005 arautus	15	Y FAC		
		<u>/ 1110</u>	.	
2			-	
3			-	
4.			-	
5			- Hydrophytic	
	15_ = To	otal Cover	Vegetation	
50% of total cover:	, S 20% of tota	al cover: 3	Present? Yes	No
Remarks: (If observed, list morphological adaptations b			-	
Tremans. (Il observed, list morphological adaptations b	Giovy.			

Sampling Point	wnrp	008-u
Sampling Point	۳ ، ۱۰۰	,

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm	the absence of in	idicators.)	
Depth	Matrix		Redox	Features	3			·	
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	<u>Type¹</u>	_Loc ²		Remarks	
0-2		<u> Cal</u>					<u> </u>		
2-5	2,5Y 4/3	160							
5-20	2.5 /5/3	100					<u> </u>		
····									
¹Type: C=Ce	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	eins.	² Location: PL=	Pore Lining, M=Matr	ix.
	Indicators: (Applic						Indicators for I	Problematic Hydric	Soils ³ :
Histosol	• •		Polyvalue Bel) 🔲 1 cm Muck	(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		-			(A10) (LRR S)	
Black Hi	stic (A3) en Sulfide (A4)		Loamy Mucky			: 0)		ertic (F18) (outside l	
	Layers (A5)		Loamy Gleye Depleted Mat		,Γ <i>2)</i>			Floodplain Soils (F19) Bright Loamy Soils (
	Bodies (A6) (LRR P	, T, U)	Redox Dark S		6)		(MLRA 1		1 201
5 cm Mu	icky Mineral (A7) (LF	RR P, T, U)	Depleted Dar	k Surface	(F7)		Red Parent	t Material (TF2)	ļ
	esence (A8) (LRR U)	Redox Depre		8)			ow Dark Surface (TF	(2)
	ick (A9) (LRR P, T) d Below Dark Surfac	e (Δ11)	Marl (F10) (L Depleted Och		/8/11 DA 4	E4\	U Other (Exp	lain in Remarks)	
-	ark Surface (A12)	C (A11)	Iron-Mangan				T) ³ Indicators	s of hydrophytic vege	tation and
Coast P	rairie Redox (A16) (F	MLRA 150A)					•	hydrology must be p	
	fucky Mineral (S1) (I	_RR O, S)	Delta Ochric		-			disturbed or problema	atic.
	Bleyed Matrix (S4)		Reduced Ver						
	Redox (S5) I Matrix (S6)		Piedmont Flo				яд) A 149A, 153C, 15:	3D)	•
	rface (S7) (LRR P, S	s, T, U)	<u></u> /omaioco c	ngni Loa	ing cons (1 20) (1112)	A 140A, 1000, 100	30)	
Restrictive	Layer (if observed):								
Туре:									,
Depth (in	ches):			_			Hydric Soil Pre	sent? Yes	No <u></u>
Remarks:									
•									
[
ļ									



Upland data point wnrp008_u facing west.

State: NC Sampling Point: Whrp 008e-watton, Township, Range: NONE cal relief (concave, convex, none): (ONCODE Slope (%): 2-5 2 873 Long: -77, 38599 Datum: W6584 NWI classification: PEM
cal relief (concave, convex, none): (100 (000 000)) Slope (%): 2-5 2 873 Long: -77 (88599 000) Datum: W6589 7. 510 pco NWI classification: PEM
1. Slopes NWI classification: PEM
1. Slopes NWI classification: PEM
1. Slopes NWI classification: PEM
7
Yes No (If no, explain in Remarks.)
turbed? Are "Normal Circumstances" present? Yes No
matic? (If needed, explain any answers in Remarks.)
ampling point locations, transects, important features, etc.
Is the Sampled Area within a Wetland? Yes No
Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) or (C1) Moss Trim Lines (B16) salong Living Roots (C3) Iron (C4) In in Tilled Soils (C6) Geomorphic Position (D2) marks) Sphagnum moss (D8) (LRR T, U)
Surface Wetland Hydrology Present? Yes No
previous inspections), if available:
Francisco de la company
s le se le s

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

Assolute Deminants Test worksheet: Subsection State
Note
2. 3. 4. 5. 5. 6. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
Species Arross All Stratar Species Arross Arross All Stratar Species Arross Arr
Species Across All Strate:
Percent of Dominant Species That Are OBL, FACW, or FAC: LOD (AB)
5.
That Are OBL. FACW, or FAC:
Prevalence index worksneer:
Prevalence index worksneer:
Total Cover Sapling/Shrub Stratum (Plot size: 304-x304-) FACU species x 2 = FACU species x 3 = FACU species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = FACU species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = FACU species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = FACU species x 5 = Column Totals: (A) (B) Frevalence Index = BIA = FACU species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) FACU species x 5 = Column Totals: (A) (B) (B) FACU species x 5 = Column Totals: (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
C
FACW species X 2 = FACW species X 3 = FACW species X 3 = FACW species X 4 = FACW species FACW sp
Sacilina/Shrub Stratum (Plot size: 30+4 x 30+4) Plot size: 30+4 x 30+4 Plot size: 30+4 x 30
FAC species
VIDIO FACU species
2.
3
4.
4.
Hydrophytic Vegetation Indicators: 1. Rapid Test for Hydrophytic Vegetation 2. Dominance Test is >50% of total cover: 2. Dominance Test is >50% of total cover: 2. Dominance Test is >50% of total cover: 3. Herb Stratum (Plot size: 30H x30H) 1. Juncus of Hussian 2. Dichan Hussian 3. Hindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. Hindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4.
8.
Rapid Test for Hydrophytic Vegetation 7.
8
8
8
Total Cover 20% of total cover: 1/10/20/5 eff(1)/5/25 20
50% of total cover: Herb Stratum (Plot size: 30FF x 30FF) Tuncus efficials Tuncus
Herb Stratum (Plot size: 30P1-x30Ft) 1. June 1
1. Juncus efficions 2. Dichan Helium acuminatum 2. Dichan Helium acuminatum 3.
Definitions of Four Vegetation Strata: Definitions of Four Vegetation Strata:
2. Definitions of Four Vegetation Strata: 3.
3
4
Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. ## 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. ## Woody Vine Stratum (Plot size: 30ff 30ff) ## Description ## Descripti
height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
6
7
8
8
9
10
11
11
12
10
50% of total cover: 20 20% of total cover: 8 Woody Vine Stratum (Plot size: 30 ft x
Woody Vine Stratum (Plot size: 30 ft x 30 f
Woody Vine Stratum (Plot size: 30 ft x 30 f
1.
2
3
5
5
5
20 = Total Cover Vegetation Present? Yes
50% of total cover: 10 20% of total cover: 4 Vegetation Present? Yes Vegetation No
50% of total cover: 10 20% of total cover: 4 Present? Yes V No
50% of total cover: 10 20% of total cover: 1
Remarks: (If observed, list morphological adaptations below).
1

Profile Description: (Describe to the de	th needed to docume	ent the indicate	or or confirm	the absence of ind	icators.)
Depth Matrix	Redox	Features		. .	
(inches) Color (moist) %	Color (moist)	%Type	Loc²	<u>Texture</u>	Remarks
0-4 2,5 192 100	. 0			<u>56</u>	
4-20 215 / 4/2 95	10 Y/L 5/6	5 C	17	54	
	,				
1					
¹Type: C=Concentration, D=Depletion, RM			Grains.		ore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al		•			oblematic Hydric Soils³:
Histosol (A1)		w Surface (S8)			
Histic Epipedon (A2)		ace (S9) (LRR		2 cm Muck (/	
Black Histic (A3)		Mineral (F1) (LI	RR O)		tic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed				odplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Depleted Matri				Bright Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Su Depleted Dark			(MLRA 153	
Muck Presence (A8) (LRR U)	Redox Depres				Material (TF2) Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LR				in in Remarks)
Depleted Below Dark Surface (A11)		ic (F11) (MLRA	151)	Li Other (Expla	iii iii Reniarks)
Thick Dark Surface (A12)		se Masses (F12		T) ³ Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150		e (F13) (LRR P		•	ydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)		17) (MLRA 15			sturbed or problematic.
Sandy Gleyed Matrix (S4)		c (F18) (MLRA			tailed of problematic.
Sandy Redox (S5)		dplain Soils (F1	•		
Stripped Matrix (S6)				A 149A, 153C, 153D))
Dark Surface (S7) (LRR P, S, T, U)		J	. () (,
Restrictive Layer (if observed):					
Type:					/
Depth (inches):				Hydric Soil Prese	ent? Yes V No
Remarks:	······································			Hydric 3011 Flest	mer res_gNo
Remarks.					
north and the state of the stat					,
1					
					İ
1					
L					



Wetland data point wnrp008e_w facing east.

Project/Site: ACD	City/County: North worton Sampling Date: 4/7/15
Applicant/Owner: Dominton	State: NC Sampling Point: Whrp 008f-w
Investigator(s): EST Leoper, Tornbull)	Section, Township, Range: <u>いつい</u>
Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): LON/AVE Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36.	52868 Long: -77, 38594 Datum: W6-634
Soil Map Unit Name: Goldshow Sandy loam O	- Z1. Slopes NWI classification: PFO
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	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No No No No No No No No No No No	within a Wetland? Yes No.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2) Presence of Redu	Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Odor (C1) heres along Living Roots (C3) ceed Iron (C4) ction in Tilled Soils (C6) E (C7) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) horse Satination Visible (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No Depth (inche: Water Table Present? Yes No Depth (inche: Depth (inche: No No Depth (inche: No	s):
Water Table Present? YesNo Depth (inches	s): <u>surface</u>
Saturation Present? Yes No Depth (inchesting line)	s): Surface Wetland Hydrology Present? Yes / No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

Sampling Point: WNTP 0086-W

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

	Absolute	Dominant	Indiantas	Daring tone
Tree Stratum (Plot size: 30ff x 30ff)		Dominant Species?		Dominance Test worksheet:
1. Pinus taeda			FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
		$\overline{}$	FAC	That Are OBL, FACW, or FAC:(A)
2. Acer robrum				Total Number of Dominant
3. Ilex opara			FAC	Species Across Ali Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Are OBL, FACW, or FAC: 100 (A/B)
7				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				
_		= Total Cov		OBL species x 1 =
50% of total cover: 25	20% of	total cover:	O	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3044 x30ft)				FAC species x 3 =
1. Ilex opaca	15	<u> </u>	FAC	FACU species x 4 =
				UPL species x 5 =
2				
3.				Column Totals:(A)(B)
4				Prevalence Index = B/A =
5				
6.		****		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
	<u> 15</u>	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 1,5	20% o	f total cover:	. 3	En Froblemado Frydrophrydd Vegetaddi) (Explain)
Herb Stratum (Plot size: 30C1 x 30C1)				
d (n A				Indicators of hydric soil and wetland hydrology must
1. hone				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				T 10/
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				1
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				
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	&	= Total Co	ver	The state of the s
50% of total cover:	20% c	f total cover	••	
Woody Vine Stratum (Plot size: 30f4 x 30 ff)	2070 0	1 10121 00401	•	
vvoody ville stratum (Plot size: Day 10001)		17	- A.	
1. Smilax rotundifolia	15	<u> </u>	<u>FAC</u>	
2				
3				
4				
				·
5		•		Hydrophytic /
,	15	_ = Total Co	ver _	Vegetation /
50% of total cover: 113	20% (of total cove	r: ろ	Present? Yes V No
Remarks: (If observed, list morphological adaptations bel	0140			
Tromanio (n obodivod, nat morphological adaptations bei	011).			
				•

Sampling Point: wnrp008f_u)
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SOIL

	cription: (Describ	e to the depti				or confirm	the absence of	indicators.)
Depth _(inches)	Matrix Color (moist)		Redo Color (moist)	x Features %		_Loc²	Texture	Remarks
6-4	2,5 Y 3/2	100	Color (moistr		Type	LUC	SL	Remarks
4-20			·- va 51	·				
<u>9-00</u>	2,5 Y 4/2	<u>- 45</u> -	10 YR5/6	_5_		<u>M</u>	<u> 5L</u> _	
				 				
				. ——				· · · · · · · · · · · · · · · · · · ·
	oncentration, D=De					ains.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators: (Appli	icable to all L			•			or Problematic Hydric Soils ³ :
Histoso			Polyvalue Be				· —	ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
	istic (A3) en Sulfide (A4)		Loamy Muck Loamy Gleye			(0)		Vertic (F18) (outside MLRA 150A,B)
	d Layers (A5)		Depleted Ma		(-2)			It Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P. T. U)	Redox Dark		6)			A 153B)
	ucky Mineral (A7) (I		Depleted Da					ent Material (TF2)
Muck P	resence (A8) (LRR	U)	Redox Depre					allow Dark Surface (TF12)
	uck (A9) (LRR P, T		☐ Marl (F10) (L					xplain in Remarks)
	d Below Dark Surfa	ace (A11)	Depleted Oc					
	ark Surface (A12)	/III D 4 4 5 0 4	iron-Mangan					tors of hydrophytic vegetation and
	rairie Redox (A16) Mucky Mineral (S1)					, U)		nd hydrology must be present,
	Gleyed Matrix (S4)	(LINK O, O)	Delta Ochric Reduced Ve			ነበል 15በছነ		s disturbed or problematic.
-	Redox (S5)		Piedmont Flo					
	d Matrix (S6)						RA 149A, 153C, 1	153D)
	urface (S7) (LRR P,			_			, ,	,
Restrictive	Layer (if observed	i):						
Type:			****					
Depth (ir	nches):						Hydric Soil P	resent? Yes V No No
Remarks:								
								•
Į.								
-								
L								



Wetland data point wnrp008f_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Applicant/Owner: Dominion State: MC Sampling Point: white 008_u Investigator(s): ESS (Roper, Turnbull) Section, Township, Range: none Local relief (concave, convex, none): Concave Slope (%): 2-5 Subregion (LRR or MLRA): Lete P Lat: 36 52871 Long: 77.38549 Datum: W6584 Soil Map Unit Name: Goldsboro Sundy Ioan, 0-21.510 pcs 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 "Normal Circumstances" present? Yes No 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 Is the Sampled Area within a Wetland? Yes No Remarks: POWER 15 West of Way Sampling Point: Whire Power 1008 under property Slope (Shory) Slope (%): 2-5 Datum: W6584 No (If no, explain in Remarks.) No (If no, explain in	Project/Site: A CP	City/County: Northam Oton Sampling Date: 4/7/15
Investigator(s): EST (Ro QW, TUY NOUT) Section, Township, Range:	Applicant/Owner: <u>Dorminio</u> n	State: NC Sampling Point: Whirp OO8_u
Local relief (concave, convex, none): LOCAL Slope (%): 2 - Subregion (LRR or MLRA): LF P Lat: 36 : 32 27 Long: 7 3 3 4 9 Datum: Western Lat: 36 : 32 27 Long: 7 3 3 4 9 Datum: Western Long: 7 3 3 4 9 Datum: Western Long: 7 3 3 4 9 Datum: Western Long: 7 3 3 4 9 Datum: Western Long: 7 3 3 4 9 Datum: Western Long: 7 4 5 10 6 2	Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: 1000 4
Subregion (LRR or MLRA): LEF Lat: 30:32871 Long: 77.38599 Datum: W6564 M 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 "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Is the Sampled Area within a Wetland? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Indicators: Primary Indicators (Indicators (Indicat	Landform (hillstone torrose etc.): () () () ()	Local collection (company) (CNO) and a company of the company of t
Are Vegetation	Subregion (LRR or MLRA): LR P C Lat: 36	32871 Long: 77,38599 Datum: W6588
Are Vegetation	Soil Map Unit Name: Goldsboro Sundy loam,	0-21. 5/0 PCD NWI classification: NA
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No 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 Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetation Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetation Present? Yes No No Is the Sampled Area within a Wetland? Yes No Vegetate Concave Surface (BB) Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Vater (A1) Surface Vater (A1) Aquatic Fauna (B13) Surface Vater (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Drainage Patterns (B10) Moss Trim Lines (B	Are climatic / hydrologic conditions on the site typical for this time of ve	ear? Yes No (If no explain in Remarks.)
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 Welland Hydrology Present? Yes No No No No No No No No No No No No No	/	·
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Water Marks (B1) Secondary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Surface Water (A1) Hydrogon Sulfide Color (C1) Secondary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Primary Indicators (minimum of two required) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) To Presence Surface Water Table (C2) Crayfish Burrows (C8) Scandary Indicators (minimum of two required) Processor Water Table (C2) Crayfish Burrows (C8) Sparsely Vegetated Concave Surface (B8) To Presence of Reduced Iron (C4) Dr. Crayfish Burrows (C8) Dr. Crayfish Burrows (C8) Scandary Indicators (minimum of two required) Processor Vegetate Concave Surface (B8) To Presence Surface Surface Surface (B8) To Presence Surface Surface Surface Surface Surface Surface (
Hydrology Present? Wetland Hydrology Indicators: Power live vight of uses Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Aquatic Rhizospheres along Living Roots (C3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Table Present? Wetland Hydrology Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Ves No		,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Drainage Patterns (B10) Advatic Ratiospheres along Living Roots (C3) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Induction Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydric Soil Present? Wetland Hydrology Present? Remarks:	
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) Saturation (A3) Water Marks (B1) Double (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Versions Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLOGY	
Surface Water (A1)		
High Water Table (A2)		Surface Soil Cracks (B6)
Saturation (A3)		一 · · · · · · · · · · · · · · · · · · ·
Water Marks (B1)		
Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Presence of Reduced Iron (C4) Grayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Depth (inches): Seturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Yes No No Depth (inches): Yes No No Depth (inches): Yes No No No Depth (inches): Yes No No No No Depth (inches): No No No No No No No No No N		= ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U) ☐ Sphagnum moss (D8) (LRR T, U) ☐ Surface Water Present? Yes No Depth (inches): ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): NH Depth (inches): > 20 Saturation Present? Yes No Depth (inches): > 20 Saturation Present? Yes No Depth (inches): > 20 Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	<u> </u>	= ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Field Observations: Surface Water Present? Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes Yes Yes No Depth (inches): Yes	Inundation Visible on Aerial Imagery (B7)	
Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): 20 Saturation Present? Yes No Depth (inches): 20 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Saturation Present? Yes No Depth (inches): > TO Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	1	
Saturation Present? Yes No Depth (inches): > TO Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present? Yes No Depth (inche:	s): <u>N</u> #
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		/
	(includes capillary fringe)	
Remarks:		,
	Remarks:	And the second s

	Absolute Dom	inant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30++ x 30++)	% Cover Spe			
1. none			Number of Dominant Species That Are OBL, FACW, or FAC:	2(A)
2.				(,
3.			Total Number of Dominant Species Across All Strata:	3 (B)
4.			Species Across Air Strata.	<u> </u>
			Percent of Dominant Species	11-1
5.			That Are OBL, FACW, or FAC:	66/1 (A/B)
6			Prevalence Index worksheet:	
7				ultiply by:
8.			OBL species x1=	
	= Tota	al Cover	1	
50% of total cover:	20% of total	cover:	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30++ 30++)			FAC species x 3 =	
1. vone			FACU species x 4 =	
2			UPL species x 5 =	
3.			Column Totals: (A)	(B)
4.				
			Prevalence Index = B/A =	
5			Hydrophytic Vegetation Indicators	
6			Rapid Test for Hydrophytic \	/egetation
7.			2 - Dominance Test is >50%	
8			3 - Prevalence Index is ≤3.0°	
	(') = Tot		Problematic Hydrophytic Veget	ation¹ (Explain)
50% of total cover:	20% of total	cover:		
Herb Stratum (Plot size: 30ft x 30ft)			¹ Indicators of hydric soil and wetland	d hydrology must
1. Androsogon Virginius	15	Y FAC	be present, unless disturbed or prot	
2. Eupatorium capillifolium	15	y facu	Definitions of Four Vegetation St	rata:
3				
4.			Tree – Woody plants, excluding vin	
			more in diameter at breast height (I height.	JBH), regardless of
5.				
6			Sapling/Shrub - Woody plants, ex	cluding vines, less
7			than 3 in. DBH and greater than 3.2	28 ft (1 m) tail.
8.			Herb - All herbaceous (non-woody	
9.			of size, and woody plants less than	3.28 ft tall.
10			Woody vine – All woody vines grea	ater than 3.28 ft in
11.			height.	2007 (11011 0.20 11 11
12				
	30 = To	tal Cover		
50% of total cover:	5 20% of tota			
Woody Vine Stratum (Plot size: 30 ff x 30 ff)	2070 01 1010		•	
1. 2005 arautus	15	Y FAC		
		<u>/ 1110</u>	.	
2			-	
3			-	
4.			-	
5			- Hydrophytic	
	15_ = To	otal Cover	Vegetation	
50% of total cover:	, S 20% of tota	al cover: 3	Present? Yes	No
Remarks: (If observed, list morphological adaptations b			-	
Tremans. (Il observed, list morphological adaptations b	Ciowy.			

Sampling Point	wnrp	008-u
Sampling Point	. ,	

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redox	Features	S			·	
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	<u>Type¹</u>	_Loc ²	Texture	Remarks	
0-2		<u> Cal</u>					<u> </u>		
2-5	2,5Y 4/3	160							
5-20	2.5 45/3	100					<u> </u>		
		-							
¹Type: C=Ce	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	 Masked=	Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.	
	Indicators: (Applic						Indicators for I	Problematic Hydric So	ils³;
Histosol	• •		Polyvalue Bel					(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		-	•		(A10) (LRR S)	
Black Hi	stic (A3) en Sulfide (A4)		Loamy Mucky Loamy Gleye			(0)		ertic (F18) (outside ML	
	Layers (A5)		Depleted Mat		.1 2-1			loodplain Soils (F19) (L Bright Loamy Soils (F2	
	Bodies (A6) (LRR P	, T, U)	Redox Dark S		F6)		(MLRA 1		,
	icky Mineral (A7) (LF		Depleted Dar					Material (TF2)	
	esence (A8) (LRR U ıck (A9) (LRR P, T)	7)	Redox Depre		8)			w Dark Surface (TF12)	
	d Below Dark Surfac	e (A11)	☐ Marl (F10) (L☐ Depleted Oct		(MLRA 1	51)	Uther (Exp	lain in Remarks)	
Acres 1	ark Surface (A12)	- ()	Iron-Mangan				T) ³ Indicators	s of hydrophytic vegetat	ion and
	rairie Redox (A16) (I					', U)		hydrology must be pres	
	Mucky Mineral (S1) (I	RR O, S)	Delta Ochric		_			disturbed or problematic	
	Bleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo						
	Matrix (S6)						⊶, A 149A, 153C, 15:	BD)	•
	rface (S7) (LRR P, S				-				
	Layer (if observed)								
Type:	-1								/
Remarks:	ches):						Hydric Soil Pre	sent? Yes	No <u>/</u>
Remarks.									
ļ									
and the second									
1									



Upland data point wnrp008_u facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: マアノルリ2ロタ Project/Site: ___/-City/County: NOY+hhamPton Applicant/Owner: Dominion State: NC Sampling Point: Wnrr 007 f.w Investigator(s): EST. A. Miller, C. M. Eachern Section, Township, Range: NA Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): Concave Slope (%): 5% Subregion (LRR or MLRA): LRR P Soil Map Unit Name: ____ MAG 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 "Normal Circumstances" present? Yes 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? Is the Sampled Area Hydric Soil Present? Yes within a Wetland? Wetland Hydrology Present? Yes 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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) ⊌ydrogen 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) lron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Yes No Depth (inches): NA
Yes No Depth (inches): 5' Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes ____ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Ę

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+ X 30F+)		Species?		
t Market discharge		V Cpcorco:	FACU	Number of Dominant Species
1. Maanolia virainiana				That Are OBL, FACW, or FAC: (A)
2. Quercus lauxifolia	80	\overline{X}	FALW	T-4-1 November of Department
3,		/		Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: /00/o (A/B)
				THAT ARE OBL, FACTO, OF FAC.
6				Prevalence Index worksheet:
7.				
8				Total % Cover of: Multiply by:
	100	= Total Cov	.0.	OBL species 30 x1= 30
·	70-			FACW species $180 \times 2 = 360$
50% of total cover: <u>\$\lefts</u>	20% of	f total cover	: <u>-20</u>	1/0 120
Sapling/Shrub Stratum (Plot size: 30× シッチュー)				FAC species $40 \times 3 = 120$
1 NONU PIESENT				FACU species x4 =
				UPL species O x 5 = O
2				
3				Column Totals: 2-50 (A) 5/0 (B)
				2.0//
4				Prevalence index = $B/A = 2/04$
5	·			Hydrophytic Vegetation Indicators:
6				l —
				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8,				3 - Prevalence Index is ≤3.01
	(7)	= Total Co	ver	
500/ -ft-t-1	000/	•		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 0	f total cover	·	
Herb Stratum (Plot size: 30 x 30ft)	110			¹ Indicators of hydric soil and wetland hydrology must
1. Impatiens capensis	40	У	FACW	be present, unless disturbed or problematic.
	30	· - /-		·
2. Woodwardia areologia		<u> </u>	OBL	Definitions of Four Vegetation Strata:
3. ATherium asplenioides	20	<i>N</i> _	FAC	
4. Micasteolam, Vimineum	10	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Boehmeria Cylindrica	40	- 1 /-		more in diameter at breast height (DBH), regardless of
5. MOCHMENT OF MINOR COL	<u> </u>	· / -	FACW	height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			· ——	and one obstance greater than o.20 it (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				
	11/0	= Total Co		
~~				
50% of total cover:	<u>ノ</u> 20%(of total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30F1 X308+) 1. Smilax rotund folia				
smiles rotundifolia.	10	· \/	EAC	
1. Stritter Actions			- 1710	
2				
3				
			-	
4		<u> </u>		. 📗
5				Hydrophytia
	10	_ = Total C	01/05	Hydrophytic Vegetation
		_		Present? Yes No
50% of total cover:	20%	of total cove	er:	1es No
Remarks: (If observed, list morphological adaptations be	low			<u> </u>
Transaction of the state of the	,	1 1	_	- 1 - 6 1 1
Majority of canopy is	1,00	dendr	on T	Uliptera which is
		0		, , , , , , ,
Majority of canopy is rooted outside of w	e Tlai	nd a	rea	
	•			

Profile Des	cription: (Describe	to the dep	th needed	to docum	nent the ir	ndicator	or confirm	the absence o	f indicators.)
Depth	Matrix				x Features			_	
(inches)	Color (moist)	90	$\frac{\text{Color (}}{10/R}$		%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 10			101K	10	10		$\overline{\mathcal{W}}$	<u> </u>	
499	107R 4/1	100						<u> 5°C </u>	
<u> </u>	10YR 5/1	90	10 YR	7/8	/0	C	61	S	
		-							
					·				
···									
	oncentration, D=Dep						ains.	² Location: F	PL=Pore Lining, M=Matrix.
	Indicators: (Applic	able to.all				•		Indicators fo	or Problematic Hydric Soils³:
Histoso							.RR S, T, U	J) 📙 1 cm Mu	ıck (A9) (LRR O)
	pipedon (A2)				rface (S9)				ıck (A10) (LRR S)
	istic (A3)				y Mineral (₹ O)	Reduced	d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)			amy Gleye pleted Ma	ed Matrix (I	-2)		Piedmor	nt Floodplain Soils (F19) (LRR P, S, T)
	: Bodies (A6) (LRR P	e T. UY			uix (F3) Surface (F	6)			ous Bright Loamy Soils (F20) A 153B)
	ucky Mineral (A7) (LI				rk Surface	•			rent Material (TF2)
	resence (A8) (LRR L			•	essions (F				allow Dark Surface (TF12)
	uck (A9) (LRR P, T)			rl (F10) (L	-				Explain in Remarks)
	d Below Dark Surfac	e (A11)			hric (F11)				•
	ark Surface (A12)						(LRR 0, P,	•	tors of hydrophytic vegetation and
	rairie Redox (A16) (ice (F13) (and hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR O, S)			(F17) (ML				ss disturbed or problematic.
	Redox (S5)						50A, 150B) (MLRA 14		
	d Matrix (S6)							RA 149A, 153C,	1530)
	urface (S7) (LRR P,	S, T, U)			singini Loui	,	(1 20) (11121	(A 145A, 1650,	1332)
	Layer (if observed)							T	
Type:								\	4 -
Depth (ir	iches):		•					Hydric Soil i	Present? Yes X No
Remarks:								1.,41.0 0011.1	100 111 100 110
									·



Wetland data point wnrr007f_w facing south



Wetland data point wnrr007f_w facing west

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Northhampton Sampling Date: 7/27/15

State: NC Sampling Point: wnrr007_u Project/Site: Applicant/Owner: Pominion Investigator(s): ESI-A.M. Nev, C.M. EachernSection, Township, Range: NA Landform (hillslope, terrace, etc.): Nillslope Local relief (concave, convex, none): Convex Subregion (LRR or MLRA): LRR P Lat: 36. 526569 Long: -77 3829 56 Soil Map Unit Name: NWI classification: No ____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ Are Vegetation ______, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____ 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? 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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Uater 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) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) 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? Water Table Present? Yes ____ No 🗶 Depth (inches): >20 Saturation Present? Wetland Hydrology Present? Yes _____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

	Absolute	Dominant	Indiantas	Danier T. Company Community
Tree Stratum (Plot size: 3044 X 3044)		Dominant Species?		Dominance Test worksheet:
1. Pinus Taeda	50	V	FAC	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2. Liriodendron Tulipfera	40	<u></u>	FACU	Total Number of Dominant
3. Higuidambar styracifiva	<u> 30</u>		FAL	Species Across All Strata: (B)
4. Acer rubrum	60	<u> </u>	FAC	opposed / toloss / til Ottalia.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 86% (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	180	= Total Cov		OBL species x 1 = O
				FACW species 10 x2= Zo
50% of total cover:	20% of	total cover:	<u> </u>	FAC species $\frac{230}{230}$ x3 = $\frac{690}{200}$
Sapling/Shrub Stratum (Plot size: 304+X304+)			, n	FAC species _Z_SO _X3= _//O
1. Hex opaca	80	У	TAC	FACU species 40 x4= 160
, , , , , , , , , , , , , , , , , , ,	10		FACI	UPL species x 5 =
		/		Column Totals: <u>280</u> (A) <u>870</u> (B)
3				(-)
4				Prevalence Index = B/A = 3'//
5				Hydrophytic Vegetation Indicators:
6.				1
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	40	= Total Cov	er ,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 4与	20% of	total cover	. 18	ELI Problematic hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 308+X308+)		10101 00101	·	
				Indicators of hydric soil and wetland hydrology must
1. None Present				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				
				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				
		- T-1-1 O-1		}
		= Total Co		
50% of total cover:	20% o	f total cover	:	
Woody Vine Stratum (Plot size: 30+130+1)				
1none present				
2				
3				
4				
5				Hydronhytia
		= Total Co	vor	Hydrophytic Vegetation
		-		Present? Yes No
50% of total cover:		it total cove	r:	
Remarks: (If observed, list morphological adaptations bel	ow).			
t .				

nches)	ription: (Describe Matrix		Redox	r Features		are absonce of my	iloators.j	
)- Ø	Color (moist)		Color (moist)	%Type	Loc ² .	Texture	Remarks	
1 - 10	10YR 5/2	<u> 100 :</u>	·		 .	_ <u>S</u>		
7 - 18	10 YR 7/4	- <u>100</u> —			 .			
5-24	Q157	<u> /oo</u> _			 -	S		
		- — —			 .			
					_			
								· · · · · · · · · · · · · · · · · · ·
	oncentration, D=Dep				Grains.		ore Lining, M=Matr	
uric son i Histosol	ndicators: (Applic	able to all LKI	_	· ·	A COD C T IO		roblematic Hydric	Soils*:
	ipedon (A2)	•	-	low Surface (S8 rface (S9) (LRR			(A9) (LRR O) (A10) (LRR S)	
Black Hi				/ Mineral (F1) (L			ertic (F18) (outside	MLRA 150A,E
	n Sulfide (A4)	-	Loamy Gleye				oodplain Soils (F19)	
	l Layers (A5) Bodies (A6) (LRR F		Depleted Mai				Bright Loamy Soils	(F20)
	icky Mineral (A7) (L		_	k Surface (F7)		(MLRA 15	Material (TF2)	
Muck Pr	esence (A8) (LRR I		Redox Depre	ssions (F8)		Very Shallo	w Dark Surface (TF	12)
	ck (A9) (LRR P, T)		Marl (F10) (L	•		U Other (Expl	ain in Remarks)	
	f Below Dark Surfac ark Surface (A12)	ce (A11)	· ·	nric (F11) (MLR. ese Masses (F1	•	D ³ Indiantoro	of hudranhytic year	tation and
	rairie Redox (A16) (MLRA 150A)		ce (F13) (LRR I		•	of hydrophytic vege hydrology must be p	
	lucky Mineral (S1)			(F17) (MLRA 1			isturbed or problem	
	Bleyed Matrix (S4)			tic (F18) (MLRA				
•	ledox (S5) Matrix (S6)			odplain Soils (F		9A) A 149A, 153C, 153	D)	
	rface (S7) (LRR P,	S, T, U)	III Allottialous L	mgni Loamy 30	115 (FZU) (MILK)	4 1484, 1830, 183	υ,	
	Layer (if observed					,		
Туре:			_					٠.
	ches):					Hydric Soil Pres	sent? Yes	_ No <u>X</u>
marks:								
				,				
				,				
				,				
				,				
				,				
				,				
				,				
				,				
				•				



Upland data point wnrr007_u facing east



Upland data point wnrr007_u facing north

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northam Plon Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wnrp006f.w
Investigator(s): ESI (Roper, Turnbull)	Section Township Range: NOV P
	Local relief (concave, convex, none): Concave Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36, 9	52965 Long: -77,38240 Datum: W6589
Coll Man Unit Name Aloc GoV Co. 1 12 7	Long:
Soil Map Unit Name: Norfish Sandy loam, b-2	
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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Percentage Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks: rain within 24 hrs.	
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	- · · · · · · · · · · · · · · · · · · ·
High Water Table (A2) Marl Deposits (B18)	
Saturation (A3) Water Marks (B1) Hydrogen Sulfide (Carter) Oxidized Rhizosph	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Presence of Reduce	neres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	=
Iron Deposits (B5) Under (Explain in F	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	a. NA
Water Table Present? Yes No Depth (inches	7-
Water Table Present? YesNo Depth (inches Saturation Present? YesNo Depth (inches	s): Surface Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
Portions of wetland inunda	uted

2110 (+	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 304x304+)		Species?		Number of Dominant Species
1. Alex cubrum	76		FAC	That Are OBL, FACW, or FAC:(A)
2. Taxodium distichum	15		<u>06L</u>	Total Number of Dominant
3. Ilex opaca	<u>_10</u> _		FAC	Species Across All Strata:
4				B
5				Percent of Dominant Species That Are OBL, FACW, or FAC: \OO (A/B)
6			i	// // // // // // // // // // // // //
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	45	= Total Cov	er	OBL species x 1 =
50% of total cover: 27.5	20% of	total cover	ેં ૧	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	20700	total cover.		FAC species x 3 =
1. Ach nobrom	10	\ /	PAC	FACU species x 4 =
2. Itex opaca	10		FAC	UPL species x 5 =
			PITC	Column Totals: (A) (B)
3				(5)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				- Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:\ C	20% o	f total cover	:	
Herb Stratum (Plot size: 30ftx 30ft)			•	¹Indicators of hydric soil and wetland hydrology must
1. Parathelypteris noveboraconsis	10	Y	FAC	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				Townson or, our rogulation direct.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				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				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.				
	10	= Total Co	ver	
50% of total cover: 5	20% c	of total cove	r:	
Woody Vine Stratum (Plot size: 30ff x30ff)				
1. Smilax rotundifolia	15	У	FAC	
2.				
3.				
J			-	
4.				
5				Hydrophytic
- Annual Control		_ = Total Co		Vegetation
50% of total cover: 7:5	<u>></u> 20% (of total cove	r: <u> </u>	Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			

Sampling Point: Why pools w

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the indicator	r or confirm	n the absence of indicators.)
Depth	Matrix			x Features		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%Type ¹	<u>Loc²</u>	Texture Remarks
0-8	104RV1	<u> </u>		·		mody loan
870	10/R2/1	100				SLY
-						
	·					
						
	-				-	
	ncentration, D=De				Frains.	² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli	cable to all L		•		Indicators for Problematic Hydric Soils ³ :
Histosol				elow Surface (S8)		
Black Hi	oipedon (A2)			urface (S9) (LRR S ty Mineral (F1) (LR		2 cm Muck (A10) (LRR S)
: ==	n Sulfide (A4)			ed Matrix (F2)	.K O)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma			Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P, T, U)	· ·	Surface (F6)		(MLRA 153B)
	icky Mineral (A7) (L			rk Surface (F7)		Red Parent Material (TF2)
Muck Pr	esence (A8) (LRR	U)	Redox Depr	essions (F8)		Very Shallow Dark Surface (TF12)
. =	ick (A9) (LRR P, T)		☐ Marl (F10) (I	•		U Other (Explain in Remarks)
1 ===	Below Dark Surfa	ce (A11)	_	hric (F11) (MLRA	-	1
	ark Surface (A12)	(BAL D.A. 450A)		nese Masses (F12)		
	rairie Redox (A16) (lucky Mineral (S1)			ace (F13) (LRR P, c (F17) (MLRA 151		wetland hydrology must be present, unless disturbed or problematic.
	Bleyed Matrix (S4)	(LKK 0, 3)		ertic (F18) (MLRA		
: —	Redox (S5)			oodplain Soils (F1		
	Matrix (S6)			-		RA 149A, 153C, 153D)
	rface (S7) (LRR P,	S, T, U)		,	`	, , ,
Restrictive	Layer (if observed):				
Type:						
Depth (in	ches):					Hydric Soil Present? Yes No
Remarks:					•	
ŀ						
1						
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1						



Wetland data point wnrp006f_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Northam pton Sampling Date: Project/Site: ACP Applicant/Owner: Dominion NC Sampling Point; Whrp 006e. Investigator(s): ESI (Roper, Turniquil) Section, Township, Range: _ ~ O ~ & Landform (hillslope, terrace, etc.): _ Local relief (concave, convex, none): ____Oヾんのい と Subregion (LRR or MLRA): LRP Lat: 36,52970 Soil Map Unit Name: Wehadkee loam. 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 "Normal Circumstances" present? Yes ... 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Rain within 24hrs, Powerline Right of way **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 (B13) Sparsely Vegetated Concave Surface (B8) Hjgh Water Table (A2) Marl Deposits (B15) (LRR U) 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) Iron Deposits (B5) U Other (Explain in Remarks) &hallow Aquitard (D3) 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? __ Depth (inches): __ Water Table Present? Depth (inches): _ Saturation Present? ____ Depth (inches): _Suface_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: portions of wetland inundated

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

2-(1 2451		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4.				
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100 (A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				OBL species x1 =
		= Total Cov		FACW species x 2 =
50% of total cover:	20% o	f total cover	;	
Sapling/Shrub Stratum (Plot size: 30H x30H)		.,		FAC species x 3 =
1. Acer rubrum	<u> </u>		FAC	FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4,				Description of the DIA
5				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7		-		2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
2		= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2.5	20% 0	of total cove	L:	
Herb Stratum (Plot size: 30ft x30ft)	. 7			Indicators of hydric soil and wetland hydrology must
1. Saccharum gigantea	<u>. UD.</u>	<u> </u>	FAC	be present, unless disturbed or problematic.
2. Juncus effusus	<u> </u>	<u> </u>	OBL,	Definitions of Four Vegetation Strata:
	10	_ \	> FACW	
4. Scirpus experimus	10	4	UBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				and to the bort and greater than o.20 it (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.				
	45	_ = Total Co	over	
50% of total cover: 27.	<u>5</u> 20% :	of total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 304x304)				
1. Rubus arautus	10	" and	FAC	
2.				
3.		_		
i				
4				
5				Hydrophytic
A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	<u> 10</u>	_ = Total C		Vegetation Present? Yes No
50% of total cover:	20%	of total cov	er: <u> </u>	Present? Yes V No
Remarks: (If observed, list morphological adaptations be	·low).			
}				

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type 1 Loc 2	Texture Remarks
	mody loan
820 104F 3/1 100	<u> </u>
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 LRRs, 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)
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) Marl (F10) (LRR U)	U Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12)	2
☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, ☐ 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) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)	(1490, 1000, 1000)
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Trydric Son Fresent? Tes V NO
	-



Wetland data point wnrp006e_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northampton Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: wnrp 006-4
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: VONC
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): LONIAVE Slope (%): 2-5
Subregion (LRR or MLRA): LLR P Lat: 36.	Local relief (concave, convex, none): 1001100 Slope (%): 2-5 529 68 Long: -77,38 25 Datum: W6384
Soil Map Unit Name: Wehadkee loam, frequer	Hy flooded NWI classification: NA
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	
	oblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No No No No No No No No No No No	
Rain within 24 Mrs	
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 (B	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	
[mm]	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	oc). NA
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

A	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x30ft)		Species?		
1. Ilex opaca	15		FAU	Number of Dominant Species
- CIDALA				That Are OBL, FACW, or FAC:(A)
2. Fagus grandifolia	10		FACU	Total Number of Dominant
3. U				l
				Species Across All Strata: (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC:
6				
				Prevalence Index worksheet:
7.				·
8.				
	25	= Total Cov	ver	OBL species x 1 =
50% of total cover: 11/1.5	2000		- Comment	FACW species x 2 =
50% of total cover: 1 18 C	20% OI	total cover	. <u>Lud</u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 304 x304)				1
1. Acer rubrum	Ol	Y	FAC	FACU species x4 =
2. Ilex opala.	10	Y	FAC.	UPL species x 5 =
			FILL	Column Totals:(A)(B)
3				Oddini rotals(A)(B)
4				Describer of Lodes - DIA
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
	_60	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	r: 4	Explain,
Herb Stratum (Plot size: 304+304)				
	: C	* 4	90° 13 A	¹Indicators of hydric soil and wetland hydrology must
1. Andropping virginitus		Ä	- HC	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				
				indie in diameter at breast neight (DBA), regardless of the
				more in diameter at breast height (DBH), regardless of height.
5				height.
5 6				height. Sapling/Shrub - Woody plants, excluding vines, less
5				height.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5				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
5				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.
5				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.
5				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
5				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.
5				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
5				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
5	15	= Total Co		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
5	15			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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15 20% c 15 15	= Total Co		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
5	15 20% c 15 15	= Total Co		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.
5	15 20% (= Total Co	over ser: S	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.
5	15 20% (15 16	= Total Co	over ser: S	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
5	15 20% (15 16	= Total Co	over 3 FAC FAC	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.
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the indica	tor or confirm	the absence of ind	icators.)
Depth	Matrix		Redo	x Features			•
(inches)	Color (moist)	%	Color (moist)	<u> % Typ</u>	e ¹ Loc ²	Texture	Remarks
<u>D-5</u>	2.5 / 3/2	100				5L	
5-20	_2.5Y5/4	100					
	E						
							· · · · · · · · · · · · · · · · · · ·
¹Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, Ma	S=Masked Sand	l Grains.	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LF	Rs, unless other	rwise noted.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Indicators for P	oblematic Hydric Soils ³ :
Histosol				low Surface (St	S) // EPP S T LI		_
	oipedon (A2)			ırface (S9) (LRF			410) (LRR S)
1 === '	istic (A3)			y Mineral (F1) (rtic (F18) (outside MLRA 150A
	en Sulfide (A4)			ed Matrix (F2)	Little O)		podplain Soils (F19) (LRR P, S,
I == ' -	d Layers (A5)		Depleted Ma				Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	. T. U)	Redox Dark			(MLRA 15	
	icky Mineral (A7) (LF			rk Surface (F7)			viaterial (TF2)
	esence (A8) (LRR U		Redox Depri				viateriai (172) v Dark Surface (TF12)
	ıck (A9) (LRR P, T)	•	Mari (F10) (I				in in Remarks)
	d Below Dark Surfac	e (A11)		hric (F11) (MLF	RA 151)	Transfer of the Abic	ar in Northannay
	ark Surface (A12)	,		ese Masses (F		T) 3Indicators	of hydrophytic vegetation and
	rairie Redox (A16) (I	VILRA 150A)		ace (F13) (LRR			nydrology must be present,
	Mucky Mineral (S1) (I			(F17) (MLRA 1			sturbed or problematic.
	Sleyed Matrix (S4)			rtic (F18) (MLR		uinego ai	starbed or problematic.
	Redox (S5)			oodplain Soils (l			
	d Matrix (S6)					, RA 149A, 153C, 153I	וי
	ırface (S7) (LRR P, s	S, T, U)		angin asanin s	(·) (····	ar 14074 1000, 1001	-,
	Layer (if observed)						
Type:	,						
1	iches):					Hadela Call Duan	
Remarks:						Hydric Soil Pres	ent? Yes No <u>\</u>
Remarks:							
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ļ							
1977							



Upland data point wnrp006_u facing west.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northam Plon Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: Wnrp006f.w
Investigator(s): ESI (Roper, Turnbull)	Section Township Range: NOV P
	Local relief (concave, convex, none): Concave Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36, 9	52965 Long: -77,38240 Datum: W6589
Coll Man Unit Name Aloc GoV Co. 1 12 7	Long:
Soil Map Unit Name: Norfish Sandy loam, b-2	
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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Percentage Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks: rain within 24 hrs.	
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	- · · · · · · · · · · · · · · · · · · ·
High Water Table (A2) Marl Deposits (B18)	
Saturation (A3) Water Marks (B1) Hydrogen Sulfide (Carter) Oxidized Rhizosph	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Presence of Reduce	neres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	=
Iron Deposits (B5) Under (Explain in F	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	a. NA
Water Table Present? Yes No Depth (inches	7-
Water Table Present? YesNo Depth (inches Saturation Present? YesNo Depth (inches	s): Surface Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
Portions of wetland inunda	uted

2110 (+	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 304x304+)		Species?		Number of Dominant Species
1. Alex cubrum	76		FAC	That Are OBL, FACW, or FAC:(A)
2. Taxodium distichum	15		<u>06L</u>	Total Number of Dominant
3. Ilex opaca	<u>_10</u> _		FAC	Species Across All Strata:
4				B
5				Percent of Dominant Species That Are OBL, FACW, or FAC: \OO (A/B)
6			i	// // // // // // // // // // // // //
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	45	= Total Cov	er	OBL species x 1 =
50% of total cover: 27.5	20% of	total cover	ેં ૧	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	20700	total cover.		FAC species x 3 =
1. Ach nobrom	10	\ /	PAC	FACU species x 4 =
2. Itex opaca	10		FAC	UPL species x 5 =
			PITC	Column Totals: (A) (B)
3				(5)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				- Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:\ C	20% o	f total cover	:	
Herb Stratum (Plot size: 30ftx 30ft)			•	¹Indicators of hydric soil and wetland hydrology must
1. Parathelypteris noveboraconsis	10	Y	FAC	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				Townson or, our rogulation direct.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				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				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.				
	10	= Total Co	ver	
50% of total cover: 5	20% c	of total cove	r:	
Woody Vine Stratum (Plot size: 30ff x30ff)				
1. Smilax rotundifolia	15	У	FAC	
2.				
3.				
J			-	
4.				
5				Hydrophytic
- Annual Control		_ = Total Co		Vegetation
50% of total cover: 7:5	<u>></u> 20% (of total cove	r: <u> </u>	Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			

Sampling Point: Why pools w

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the indicator	r or confirm	n the absence of indicators.)
Depth	Matrix			x Features		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%Type ¹	<u>Loc²</u>	Texture Remarks
0-8	104RV1	<u> </u>		·		mody loan
870	10/R2/1	100				SLY
-						
	·					
						
	-				-	
	ncentration, D=De				Frains.	² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli	cable to all L		•		Indicators for Problematic Hydric Soils ³ :
Histosol				elow Surface (S8)		
Black Hi	oipedon (A2)			urface (S9) (LRR S ty Mineral (F1) (LR		2 cm Muck (A10) (LRR S)
: ==	n Sulfide (A4)			ed Matrix (F2)	.K O)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma			Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P, T, U)	· ·	Surface (F6)		(MLRA 153B)
	icky Mineral (A7) (L			rk Surface (F7)		Red Parent Material (TF2)
Muck Pr	esence (A8) (LRR	U)	Redox Depr	essions (F8)		Very Shallow Dark Surface (TF12)
. =	ick (A9) (LRR P, T)		☐ Marl (F10) (I	•		U Other (Explain in Remarks)
1 ===	Below Dark Surfa	ce (A11)	_	hric (F11) (MLRA	-	1
	ark Surface (A12)	(BAL D.A. 450A)		nese Masses (F12)		
	rairie Redox (A16) (lucky Mineral (S1)			ace (F13) (LRR P, c (F17) (MLRA 151		wetland hydrology must be present, unless disturbed or problematic.
	Bleyed Matrix (S4)	(LKK 0, 3)		ertic (F18) (MLRA		
: —	Redox (S5)			oodplain Soils (F1		
	Matrix (S6)			-		RA 149A, 153C, 153D)
	rface (S7) (LRR P,	S, T, U)		,	`	, , ,
Restrictive	Layer (if observed):				
Type:						
Depth (in	ches):					Hydric Soil Present? Yes No
Remarks:					•	
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Wetland data point wnrp006f_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Northam pton Sampling Date: Project/Site: ACP Applicant/Owner: Dominion NC Sampling Point; Whrp 006e. Investigator(s): ESI (Roper, Turniquil) Section, Township, Range: _ ~ O ~ & Landform (hillslope, terrace, etc.): _ Local relief (concave, convex, none): ____Oヾんのい と Subregion (LRR or MLRA): LRP Lat: 36,52970 Soil Map Unit Name: Wehadkee loam. 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 "Normal Circumstances" present? Yes ... 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Rain within 24hrs, Powerline Right of way **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 (B13) Sparsely Vegetated Concave Surface (B8) Hjgh Water Table (A2) Marl Deposits (B15) (LRR U) 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) Iron Deposits (B5) U Other (Explain in Remarks) &hallow Aquitard (D3) 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? __ Depth (inches): __ Water Table Present? Depth (inches): _ Saturation Present? ____ Depth (inches): _Suface_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: portions of wetland inundated

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

2-(1 2451		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4.				
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100 (A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				OBL species x1 =
		= Total Cov		FACW species x 2 =
50% of total cover:	20% o	f total cover	;	
Sapling/Shrub Stratum (Plot size: 30H x30H)		.,		FAC species x 3 =
1. Acer rubrum	<u> </u>		FAC	FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4,				Description of the DIA
5				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7		-		2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
2		= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2.5	20% 0	of total cove	L:	
Herb Stratum (Plot size: 30ft x30ft)				Indicators of hydric soil and wetland hydrology must
1. Saccharum gigantea	<u>. UD.</u>	<u> </u>	FAC	be present, unless disturbed or problematic.
2. Juncus effusus	<u> </u>	<u> </u>	OBL,	Definitions of Four Vegetation Strata:
	10	_ \	> FACW	
4. Scirpus experimus	10	4	UBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				and to the bort and greater than o.20 it (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.				
	45	_ = Total Co	over	
50% of total cover: 27.	<u>5</u> 20% :	of total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 304x304)				
1. Rubus arautus	10	" and	FAC	
2.				
3.		_		
i				
4				
5				Hydrophytic
A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	<u> 10</u>	_ = Total C		Vegetation Present? Yes No
50% of total cover:	20%	of total cov	er:	Present? Yes V No
Remarks: (If observed, list morphological adaptations be	·low).			
}				

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type 1 Loc 2	Texture Remarks
	mody loan
820 104F 3/1 100	<u> </u>
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 LRRs, 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)
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) Marl (F10) (LRR U)	U Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12)	2
☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, ☐ 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) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)	(1490, 1000, 1000)
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Trydric Son Fresent? Tes V NO
	-



Wetland data point wnrp006e_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northampton Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: wnrp 006-4
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: VONC
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): LONIAVE Slope (%): 2-5
Subregion (LRR or MLRA): LLR P Lat: 36.	Local relief (concave, convex, none): 1001100 Slope (%): 2-5 529 68 Long: -77,38 25 Datum: W6384
Soil Map Unit Name: Wehadkee loam, frequer	Hy flooded NWI classification: NA
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	
	oblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No No No No No No No No No No No	
Rain within 24 Mrs	
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 (B	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	
[mm]	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	oc). NA
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

A	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x30ft)		Species?		
1. Ilex opaca	15		FAU	Number of Dominant Species
- CIDALA				That Are OBL, FACW, or FAC:(A)
2. Fagus grandifolia	10		FACU	Total Number of Dominant
3. U				l
				Species Across All Strata: (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC:
6				
				Prevalence Index worksheet:
7.				·
8.				
	25	= Total Cov	ver	OBL species x 1 =
50% of total cover: 11/1.5	2000		- Comment	FACW species x 2 =
50% of total cover: 1 18 C	20% OI	total cover	· <u>tud</u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 304 x304)				1
1. Acer rubrum	Ol	Y	FAC	FACU species x4 =
2. Ilex opala.	10	Y	FAC.	UPL species x 5 =
			F-11	Column Totals:(A)(B)
3				Oddini rotals(A)(B)
4				Describer of Lodes - DIA
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
	_60	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	r: 4	Explain,
Herb Stratum (Plot size: 304+304)				
	: C	* 4	90° 13 A	¹Indicators of hydric soil and wetland hydrology must
1. Andropping virginitus		Ä	- HC	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				
				indie in diameter at breast neight (DBA), regardless of the
				more in diameter at breast height (DBH), regardless of height.
5				height.
5 6				height. Sapling/Shrub - Woody plants, excluding vines, less
5				height.
5				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5				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
5				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.
5				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.
5				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
5				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.
5				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
5				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
5	15	= Total Co		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
5	15			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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15	= Total Co		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
5	15 20% c 15 15	= Total Co		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
5	15 20% c 15 15	= Total Co		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.
5	15 20% (= Total Co	over ser: S	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.
5	15 20% (15 16	= Total Co	over ser: S	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
5	15 20% (15 16	= Total Co	over 3 FAC FAC	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.
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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
5	15 20% c 15 15 15 20%	= Total Co	over 3 FAC FAC	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

	inputon: (Describe	io ino depin i	reeded to docum	ient the indicator	or contirm t	he absence of indic	ators.)
Depth	Matrix		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	% Type ¹	_Loc ²	Texture	Remarks
D-5	25/3/2	100				5L	İ
5-20	_2.5454	100				5	
					· —— -		
							
¹Type: C=Co	ncentration, D=Dep	letion, RM=Re	duced Matrix, MS	and G	rains.	² Location: PL=Poi	e Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all LR	Rs, unless other	wise noted.)		Indicators for Pro	blematic Hydric Soils³:
☐ Histosol				low Surface (S8) (LRRS.T.II)		-
	ipedon (A2)	•		rface (S9) (LRR S		2 cm Muck (A	
Black Hi		·		/ Mineral (F1) (LR			c (F18) (outside MLRA 150A,B)
	n Sulfide (A4)	-	Loamy Gleye		,, ,		dplain Soils (F19) (LRR P, S, T)
 	Layers (A5)	•	Depleted Ma				ght Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	Redox Dark			(MLRA 153	
	icky Mineral (A7) (LF			k Surface (F7)		Red Parent M	
	esence (A8) (LRR U		Redox Depre				Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L			Other (Explain	
	d Below Dark Surfac	e (A11)		nric (F11) (MLRA	151)	mount of the contract of the c	
Thick Da	ark Surface (A12)			ese Masses (F12)		T) ³ Indicators of	hydrophytic vegetation and
	rairie Redox (A16) (I			ce (F13) (LRR P,			drology must be present,
🔲 Sandy N	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (MLRA 151)		urbed or problematic.
	Heyed Matrix (S4)			tic (F18) (MLRA 1			•
	Redox (S5)			odplain Soils (F19		9A)	
	Matrix (S6)					A 149A, 153C, 153D)	
	rface (S7) (LRR P, S					,	
Restrictive	Layer (if observed)	•					
Type:							
Depth (in	ches):					Hydric Soil Prese	nt? Yes No
Remarks:						Trydic 30ii Frese	III les No 💆
remarks.							
1							



Upland data point wnrp006_u facing west.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City	//County: Northam pton Sampling Date: 4/7/15
Applicant/Owner: Dominican	State: NC Sampling Point: whrp 007e
Investigator(s): EST (Roper, Tornboll) Ser	ction, Township, Range: NOV
Landform (hillslope, terrace, etc.): drain a al	cal relief (concave, convex, none); Lancave Slone (%): 2-5
Subregion (LRR or MLRA): LRP P Lat: 36.53	cal relief (concave, convex, none): <u>LONCAV</u> Slope (%): <u>2-5</u>
Soil Map Unit Name: Norfolk Sandy loan, 0-21.	SIDAL NIMI classification: DEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Vers No. ((Fra explain in Demostra)
Are Venetation Soil or Hudralogy continued by Soil	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	
	matic? (If needed, explain any answers in Remarks.) ampling point locations, transects, important features, etc.
Attach site map showing se	miping point locations, transects, important leatures, 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	
Pain within 24 hrs.	
Kain Within 2 11113.	
Powerline right of way	
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 (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Mart Deposits (B15) (I	
Saturation (A3) Hydrogen Sulfide Odd	<u> </u>
Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizosphere Presence of Reduced	s along Living Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rem	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	N/W
Surface Water Present? Yes No Depth (inches):	7
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 inspections), if available:
Remarks:	
Tomano.	

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 36+ x 30++)	% Cover Species? Status	ì
4 V3 Ova 6	·	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		Mat A e OBL, PACV, OF PAC. (A)
2.		Total Number of Dominant
3		Species Across Ali Strata: (B)
4.		
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		That Are OBL, FACW, or FAC: (A/B)
6.		Prevalence Index worksheet:
7		Total % Cover of:Multiply by:
8		
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)		FAC species x 3 =
		FACU species x 4 =
1. None		UPL species x 5 =
2		
3		Column Totals: (A) (B)
4.		
		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		
	= Total Cover	3 - Prevalence Index is ≤3.0¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 Ft x 30 Ft)		¹ Indicators of hydric soil and wetland hydrology must
1. Juneus efficas	20 Y OBL	be present, unless disturbed or problematic.
2. Parathelypteris noveboracensi		Definitions of Four Vegetation Strata:
3. Typha latitolia		Deminions of Four Vegetation Strata.
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Dicanthelium acumination	20 Y PAC	more in diameter at breast height (DBH), regardless of
5. Garcharum giaantea	10 N FAC	height.
6. Onoclea sensibilis	5 N FACE) 01//0/
		Sapinigisinub - woody plants, excluding wifes, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb - Ail herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tail.
10		
		read y this run ready three greater that the
11		height.
12		-
	<u>BO_</u> = Total Cover	
50% of total cover:	O 20% of total cover: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
Woody Vine Stratum (Plot size: 30ftx30ff)		•
	1 - V -n.s	
1. Kubus arqutus	15 Y FAC	
2		_
3		
		~]
4		-
5		- Hydrophytic
	\S = Total Cover	Vegetation
50% of total cover: 1	5 20% of total cover:	Present? Yes V No No
Remarks: (If observed, list morphological adaptations be	elow).	
1		

Sampling Point: Wハ	rp	00	7-W
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	_	~		
_	o	U	I L	

Profile Desc	ription: (Describe	to the depti	needed to docu	ment the i	ndicator	or confirm	the absence of in	ndicators.)
Depth	Matrix			x Feature		. , -		_
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²		Remarks
0-20	2.514/	<u>90</u> .	10484/1	10	<u> </u>	<u> PL</u>	<u>_SL</u> _	
					-			
	-		7	<u>-</u>				
				-			-	
								1
¹Type: C=C	oncentration, D=De	oletion. RM=I	Reduced Matrix. M	S=Masked	d Sand Gr	ains.	²l ocation: Pl =	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)			Problematic Hydric Soils ³ :
☐ Histosol			Polyvalue B			RR S. T. U		(A9) (LRR O)
	pipedon (A2)		Thin Dark S					(A10) (LRR S)
	stic (A3)		Loamy Much					/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			Floodplain Soils (F19) (LRR P, S, T)
Account.	d Layers (A5)		Depleted Ma	atrix (F3)				s Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark				(MLRA 1	•
	ucky Mineral (A7) (L		Depleted Da					t Material (TF2)
	resence (A8) (LRR		Redox Depr		8)			ow Dark Surface (TF12)
	ick (A9) <mark>(LRR P, T)</mark> d Below Dark Surfa		Marl (F10) (/MI DA 4	Ed)	U Other (Exp	olain in Remarks)
	ark Surface (A12)	ce (A11)	Iron-Mangar				T) ³ Indicator	s of hydrophytic vegetation and
	rairie Redox (A16)	MLRA 150A						f hydrology must be present,
	lucky Mineral (S1)		Delta Ochrid					disturbed or problematic.
	Sleyed Matrix (S4)	• • •	Reduced Ve					and an experience of the second secon
Sandy F	Redox (S5)		Piedmont Fl					
	l Matrix (S6)		Anomalous	Bright Loa	my Soils	(F20) (MLR	RA 149A, 153C, 15	3D)
	rríace (S7) (LRR P,							
Restrictive	Layer (if observed):						
								
Depth (in	ches):						Hydric Soil Pre	esent? Yes No
Remarks:			•				J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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1								
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Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp007e_w facing west.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Novthampton Sampling Date: 4/7/15
Applicant/Owner: <u>Dominion</u>	State: N C Sampling Point: WNYDD7-u
Investigator(s): EST (Roper, Turnbull)	Section, Township, Range: 1000 C
Subregion (LRR or MLRA): Lele 27 0 Lat: 36.5	_ocal relief (concave, convex, none): <u>CONCOVE</u> Slope (%): <u>7-5</u> 57 926 Long: <u>-77, 26 7531</u> Datum: <u>W6584</u>
Soil Map Unit Name: Norfolk Sandy loam, 0-2	1. STORES ANALISTONIAN ALA
Are climatic / hydrologic conditions on the site typical for this time of year	
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 within a Wetland? Yes No _\
Wetland Hydrology Present? Yes No	within a Wetland? Yes No _\/
Remarks:	
Powerline right of way	
rain within 24hrs.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B1)	Surface Soil Cracks (B6)
High Water Table (A2) Addatic Patria (B1) Addatic Patria (B1) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide C	
[m]	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	F-3
	tion in Tilled Soils (C6) 🔲 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	=
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain in R	emarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches): <u>VA</u>
Water Table Present? Yes No Depth (inches): <u>19</u>
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 inspections), if available:
, , , , , , , , , , , , , , , , , , , ,	,
Remarks:	
rain within 24 hrs.	

G-C: 5-Ci-	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x30ft)	% Cover Species? Status	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		
3		Total Number of Dominant Species Across All Strata: (B)
4		Opecies Across Air Strata.
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: 851. (A/B)
6		Prevalence Index worksheet:
7		
8		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: 30ff × 30ff)		FAC species x 3 =
1. NOV		FACU species x 4 =
		UPL species x 5 =
2		
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		L
		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30 ft x30ft)		10.00 1 00 10 00 10 00 10 10 10 10 10 10 10
1. Ludwigia atternifolia	5 N OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
a Proceedings of the state of t		<u> </u>
2. Parathalypteris noveboracensis	10 / 10	Definitions of Four Vegetation Strata:
3. Dichanthelism acuminatum	is x car	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eupatorium capillifolium	1.5 Y 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.
		Section with a sectio
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		
	45 = Total Cover	
50% of total cover: 2-7	5 20% of total cover: 9	·
Woody Vine Stratum (Plot size: 30ft x 30ft)	20 % Of total cover	
1. Rubus arauta	IC V FAX	
	- 15 - 4 - 110	
2. Smilax rotundifolia	10 / FAC	
3		
4.		
5		
V	75 Tabal Sauce	Hydrophytic
1-7	= Total Cover	Vegetation Present? Yes No
50% of total cover: 17	5 20% of total cover: _5	· les
Remarks: (If observed, list morphological adaptations be	low).	
1		

	cription: (Describe	to the depth r	needed to docur	nent the i	indicator or confirm	the absence of in	dicators.)
Depth	Matrix			x Feature	s		_
(inches)	Color (moist)		Color (moist)	%	Type ¹ Loc ²		Remarks
0-3		<u> </u>			***************************************		
3-B	2.51/5/2	100				<u>S</u>	
<u> 2-20</u>	2.519/3	100				S	
				-			
				-			
¹Type: C=C	oncentration, D=Dep	letion, RM=Re	duced Matrix. M	S=Masked	d Sand Grains.	2l ocation: Pl =	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise not	ed.)		Problematic Hydric Soils ³ :
☐ Histosol					ice (S8) (LRR S, T, U		(A9) (LRR O)
Histic E	pipedon (A2)) (LRR S, T, U)		(A10) (LRR S)
Black H	istic (A3)				(F1) (LRR O)		ertic (F18) (outside MLRA 150A,B)
☐ Hydroge	en Sulfide (A4)		Loamy Gleye				loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	ıtrix (F3)			Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P		Redox Dark			(MLRA 1	
	ucky Mineral (A7) (LF		Depleted Da				Material (TF2)
	resence (A8) (LRR U	J) .	Redox Depr		⁷ 8)		w Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (I			U Other (Expl	ain in Remarks)
	d Below Dark Surfac ark Surface (A12)	e (A11)			(MLRA 151)	3ı ı- <i>ı</i>	
	rairie Redox (A16) (I	MI DA 450A)	Limbric Surfi		ses (F12) (LRR O, P, (LRR P, T, U)		of hydrophytic vegetation and
	Mucky Mineral (S1) (I		Delta Ochric				hydrology must be present, listurbed or problematic.
	Gleyed Matrix (S4)				(MLRA 150A, 150B)		istarbed or problematic.
	Redox (S5)				Soils (F19) (MLRA 14		
	d Matrix (S6)				my Soils (F20) (MLR		ID)
	ırface (S7) (LRR P, S	S, T, U)		•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,
	Layer (if observed)						
Type:							and the second second
Depth (in	nches):		_			Hydric Soil Pres	sent? Yes No
Remarks:						1.,,	
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Į							
Ì							

Environmental Field Surveys Wetland Photo Page



Upland data point wnrp007_u facing east.

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/25/2015	
Applicant/Owner: Dominion		State: NC Sampling Point: wnrb107e_			Sampling Point: wnrb107e_w	
Landform (hillslope, terrace, etc.): draina						
Subregion (LRR or MLRA): P		36.53113191	Long: -77.	377565	Datum: WGS 1984	
Soil Map Unit Name: Wehadkee loam, 0	to 2 percent sl	opes, frequently flood	led	NWI classifi	cation: None	
Are climatic / hydrologic conditions on the	site typical fo	r this time of year? Y	es No	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No	
Are Vegetation, Soil, or H						
SUMMARY OF FINDINGS – Att						
Hydrophytic Vegetation Present?	Yes 🗸	No				
Hydric Soil Present?		No	Is the Sampled Area	V	No	
Wetland Hydrology Present?	Yes 🗸		within a Wetland?	Yes	NO	
Remarks:	<u> </u>					
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is re	equired; check	all that apply)		Surface Soi	l Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (B14)		egetated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa		
Saturation (A3)	<u> </u>	Oxidized Rhizosphere	es on Living Roots (C3)			
Water Marks (B1)		Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)	
Iron Deposits (B5)	(= -)				c Position (D2)	
Inundation Visible on Aerial Imager	y (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					raphic Relief (D4)	
Aquatic Fauna (B13)				✓ FAC-Neutra	II Test (D5)	
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):				
			0			
		Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes ✓ No	
(includes capillary fringe)	110	Deptil (iliches)	Wetland i	lydrology i rese	HIL: 165 NO	
Describe Recorded Data (stream gauge	, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:		
Remarks:						
Remarks.						

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

____)

50% of total cover: ___

50% of total cover: ____7.5

50% of total cover:

% Cover Species? Status

= Total Cover _ 20% of total cover:__

0___ = Total Cover 20% of total cover:___3

Yes

= Total Cover 25 20% of total cover: 10

0 = Total Cover

50% of total cover: 0 20% of total cover:

15

15____

30

Sapling/Shrub Stratum (Plot size: 15)

Tree Stratum (Plot size:

Herb Stratum (Plot size: ___ 1. Persicaria arifolia

2. Onoclea sensibilis

Woody Vine Stratum (Plot size: 30

3. Juncus effusus

	Sampling		nrb107e_	w				
dicator	Dominance Test workshee	t:						
<u>status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)							
	Total Number of Dominant Species Across All Strata:		3	(B)				
	Percent of Dominant Species That Are OBL, FACW, or FA		100	(A/B)				
	Prevalence Index workshe	et:						
	Total % Cover of:	Mu	ltiply by:					
0	OBL species 20	x 1 =	20					
	FACW species 30	x 2 =	60	_				
	FAC species 0	x 3 =	0	_				
	FACU species 0	x 4 =	0	_				
	UPL species 0	_	0	_				
	Column Totals: 50	_ x 5 = _ _ (A)	80	(B)				
	Prevalence Index = B/	A =	1.6	_				
	Hydrophytic Vegetation Inc	dicators:						
	✓ 1 - Rapid Test for Hydro	phytic Ve	getation					
	2 - Dominance Test is >	50%	•					
	3 - Prevalence Index is							
•	4 - Morphological Adapt		rovide sur	porting				
3	data in Remarks or o							
	Problematic Hydrophytic							
OBL		vegetati	OII (EXPIR	··· <i>·</i>				
FACW FACW	¹ Indicators of hydric soil and be present, unless disturbed			must				
	Definitions of Four Vegetat	tion Strat	ta:					
	Tree – Woody plants, exclude more in diameter at breast he height.							
	Sapling/Shrub – Woody pla than 3 in. DBH and greater th m) tall.							
10	Herb – All herbaceous (non- of size, and woody plants les			ardless				
10	Woody vine – All woody vin height.	es greate	r than 3.28	3 ft in				
	Hydrophytic Vegetation Present? Yes	∕ No	,					

	Remarks:	(Include photo	numbers I	here or on	a separate	sheet.)
--	----------	----------------	-----------	------------	------------	---------

Profile Desc	ription: (Describe to	o the de	oth needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	K Feature:				
(inches) 0-12	Color (moist) 10YR 3/2	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type ¹ C	Loc ²	Texture SCL	Remarks
0-12	101R 3/2	95	101R 4/0			PL		
					-			
					-			
					-			
¹ Type: C=Ce	oncentration, D=Deple	etion, RM	l=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		-						ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfa			148) (Coast Prairie Redox (A16)
Black Hi			Thin Dark Su		•	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(444)	<u>✓</u> Redox Dark S	•	,			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				_ (Other (Explain in Remarks)
	firk Sulface (A12) fucky Mineral (S1) (L l	RR N	Iron-Mangane			IRRN		
	147, 148)	ixix i v ,	MLRA 136		es (i iz) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)	3Inc	dicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					nless disturbed or problematic.
Restrictive I	_ayer (if observed):			·				-
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes No
Remarks:	,							



Photo 1 Wetland data point wnrb107e_w facing west



Photo 2
Wetland data point wnrb107e_w facing south

Project/Site: Atlantic Coast Pipe	line	City/C	ounty: Northampton		Sampling Date: 3/25/2015
Applicant/Owner: Dominion		State: NC Sampling Point: Wni			
Investigator(s): TP, AS		Section			
Landform (hillslope, terrace, etc.					
Subregion (LRR or MLRA): P		Lat: 36.53070479	Long: -77.	37749258	Datum: WGS 1984
Soil Map Unit Name: Wehadkee	loam, 0 to 2 perce	ent slopes, frequently flood	ded	NWI classific	cation: PFO1C
Are climatic / hydrologic condition	ons on the site typic	cal for this time of year? Y	es No	(If no, explain in F	Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No
Are Vegetation, Soil					
					s, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	✓ No			
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		V No	within a Wetland?	res	NO
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicator	s:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum o	f one is required; c	heck all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	atterns (B10)
✓ Saturation (A3)		✓ Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim L	ines (B16)
Water Marks (B1)		Presence of Reduced	l Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bu	
✓ Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		Stressed Plants (D1)
Iron Deposits (B5)	(57)				Position (D2)
Inundation Visible on Aeric				Shallow Aqu	
Water-Stained Leaves (BS Aquatic Fauna (B13)	")			✓ FAC-Neutra	aphic Relief (D4)
Field Observations:				TAO Neutra	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Surface Water Present?	Yes V No	Depth (inches):	4		
Water Table Present?			0		
Saturation Present?		Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes V No
(includes capillary fringe)					100 <u></u>
Describe Recorded Data (stream	am gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					
romano.					

Sampling	Point: wnrb107f_	w

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Ulmus rubra	10	Yes	FAC	Total Number of Descions
3. Quercus phellos	5	No	FAC	Total Number of Dominant Species Across All Strata: 5 (B)
4				Species / torocc / till otratia.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cover		
50% of total cover:17.5	20% of	total cover:	7	ODL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Acer rubrum	15	Yes	FAC	FAC species $_{}$ 50 x 3 = $_{}$ 150
2. Taxodium distichum	10	Yes	OBL	FACU species0 x 4 =0
3. Salix nigra	10	Yes	OBL	UPL species 0 x 5 = 0
	5			70 170
4. Quercus phellos		No	FAC	Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.42
6				1 Tevalence maex = B/TC=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 20	20% of	total cover:	8	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				3
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Have All have accuse (non woods) plants regardless
	0	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:	0	of size, and woody plants loss than 6.25 it tall.
30 /0 01 total cover	20 /0 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		riesent? res No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Feature	S	_	
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
0-12	10YR 2/1	100			SCL	
	-				-	
	· 					· · · · · · · · · · · · · · · · · · ·
		·			· .	
		 				
		<u> </u>				
						•
						
	· 				2	
		letion, RM=R	educed Matrix, MS=Maske	d Sand Grains.		PL=Pore Lining, M=Matrix.
dric Soil	Indicators:					ators for Problematic Hydric Soils ³ :
_ Histoso			Dark Surface (S7)			2 cm Muck (A10) (MLRA 147)
_ Histic E	pipedon (A2)		Polyvalue Below Surfa	ce (S8) (MLRA 147	7, 148) (Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Surface (S9			(MLRA 147, 148)
_ Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix	(F2)	F	Piedmont Floodplain Soils (F19)
_ Stratifie	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)
_ 2 cm M	uck (A10) (LRR N)		Redox Dark Surface (⁼ 6)	\	/ery Shallow Dark Surface (TF12)
_ Deplete	ed Below Dark Surfac	e (A11)	Depleted Dark Surface	e (F7)	(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F	8)		
_ Sandy I	Mucky Mineral (S1) (I	_RR N,	Iron-Manganese Mass	es (F12) (LRR N,		
MLR	A 147, 148)		MLRA 136)			
Sandy (Gleyed Matrix (S4)		✓ Umbric Surface (F13)	(MLRA 136, 122)	³ Inc	dicators of hydrophytic vegetation and
Sandy I	Redox (S5)		Piedmont Floodplain S	oils (F19) (MLRA 1	48) we	etland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent Material (I	21) (MLRA 127, 1 4	17) ur	nless disturbed or problematic.
estrictive	Layer (if observed):					
Туре:						
	nches):		_		Hydric Soi	I Present? Yes ✓ No
			-		Tiyunc 301	11 leseilt: 1es 140
emarks:						



Photo 1
Wetland data point wnrb107f_w facing south



Photo 2
Wetland data point wnrb107f_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/25/2015	
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb107_u	
Landform (hillslope, terrace, etc.): hill sle						
Subregion (LRR or MLRA): P					Datum: WGS 1984	
Soil Map Unit Name: Wehadkee loam, C		s, frequently flood	led	NWI classific	ation: None	
Are climatic / hydrologic conditions on th	e site typical for thi	s time of year? Y	es No ((If no, explain in R	emarks.)	
Are Vegetation, Soil, or I	-lydrologys	significantly disturl	ped? Are "Normal	Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or I						
SUMMARY OF FINDINGS – A						
Hydrophytic Vegetation Present?	Yes N	lo				
Hydric Soil Present?	Yes N		Is the Sampled Area within a Wetland?	Vos	No	
Wetland Hydrology Present?	Yes N		within a Wetland:	165	NO	
HYDROLOGY						
Wetland Hydrology Indicators:					tors (minimum of two required)	
Primary Indicators (minimum of one is	•			Surface Soil		
Surface Water (A1)		e Aquatic Plants (Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16)		
High Water Table (A2)	-	Irogen Sulfide Odd	5 . (00)			
Saturation (A3) Water Marks (B1)		sence of Reduced	-		Water Table (C2)	
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Buri		
Drift Deposits (B3)		n Muck Surface (C		-	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		er (Explain in Ren			tressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqui	tard (D3)	
Water-Stained Leaves (B9)					phic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations:						
	No De					
	No <u> </u>					
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	pth (inches):	Wetland H	lydrology Presen	t? Yes No	
Describe Recorded Data (stream gaug	e, monitoring well,	aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						
Remarks.						

Samoling Point will bis -c	Sampling	Point: wnrb107_	_u
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•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liriodendron tulipifera	25	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Liquidambar styraciflua	10	Yes	FAC	Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				(=/
5				Percent of Dominant Species That Are ORL FACW or FAC: 60 (A/R)
0				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	35			Total % Cover of: Multiply by:
47.5	.——'	= Total Cove	r 7	OBL species x 1 = 0
50% of total cover: 17.5	20% of	total cover:		0
Sapling/Shrub Stratum (Plot size:)				FACW species X Z =
1. Ilex opaca	10	Yes	FACU	FAC species X 3 =
2. Liquidambar styraciflua	10	Yes	FAC	FACU species x 4 =
3				UPL species $0 \times 5 = 0$
4				Column Totals:60
5				0.50
				Prevalence Index = B/A =3.58
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	20	= Total Cove	r ,	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:10	20% of	total cover:_	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				•
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3				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				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
	0	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cover:	1	
Woody Vine Stratum (Plot size: 30)	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
1 Vitis rotundifolia	5	Yes	FAC	height.
·				
2				
3				
4				Hydrophytic
5				Vegetation
	5	= Total Cove	r	Present? Yes No
50% of total cover: 2.5		total cover:	1	
Remarks: (Include photo numbers here or on a separate si				
(morado proto namboro noto or on a deparato o	,			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Lo	c ² Texture	Remarks
0-4	10YR 3/2	100		LS	salt/pepper
4-12	10YR 3/3	100		SL	
					
		<u> </u>			
		 		-	• -
		<u> </u>			
	-	<u> </u>			
		<u> </u>			-
Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:				cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)	2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 1		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	1	Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark Surface (F6)	\	Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
Sandy N	Mucky Mineral (S1) (L	LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
MLR	A 147, 148)		MLRA 136)		
Sandy C	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	2) 3Inc	dicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF	RA 148) w	etland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent Material (F21) (MLRA 127	7, 147) ur	nless disturbed or problematic.
Restrictive	Layer (if observed):	:			
Type:			<u></u>		
Depth (in	ches):			Hydric Soi	il Present? Yes No 🚩
Remarks:					



Photo 1 Upland data point wnrb107_u facing east



Photo 2 Upland data point wnrb107_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/25/2015
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb107e_w
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): draina					
Subregion (LRR or MLRA): P		36.53113191	Lona: -77.	377565	Datum: WGS 1984
Soil Map Unit Name: Wehadkee loam, 0	to 2 percent sl	opes, frequently flood	led	NWI classifi	cation: None
Are climatic / hydrologic conditions on the	site typical fo	r this time of year? Y	es No	(If no, explain in I	Remarks.)
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No
Are Vegetation, Soil, or H					
SUMMARY OF FINDINGS – Att					
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?		No	Is the Sampled Area	V	No
Wetland Hydrology Present?	Yes 🗸		within a Wetland?	Yes	NO
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is re	equired; check	all that apply)		Surface Soi	l Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)	<u> </u>	Oxidized Rhizosphere	es on Living Roots (C3)		
Water Marks (B1)		Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)
Iron Deposits (B5)	(= -)				c Position (D2)
Inundation Visible on Aerial Imager	y (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					raphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	II Test (D5)
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):			
			0		
		Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes ✓ No
(includes capillary fringe)	110	Deptil (iliches)	Wetland i	lydrology i rese	HIL: 165 NO
Describe Recorded Data (stream gauge	, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					
Remarks.					

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

____)

50% of total cover: ___

50% of total cover: ____7.5

50% of total cover:

% Cover Species? Status

= Total Cover _ 20% of total cover:__

0___ = Total Cover 20% of total cover:___3

Yes

= Total Cover 25 20% of total cover: 10

0 = Total Cover

50% of total cover: 0 20% of total cover:

15

15____

30

Sapling/Shrub Stratum (Plot size: 15)

Tree Stratum (Plot size:

Herb Stratum (Plot size: ___ 1. Persicaria arifolia

2. Onoclea sensibilis

Woody Vine Stratum (Plot size: 30

3. Juncus effusus

	Sampling		nrb107e_	w
dicator	Dominance Test workshee	t:		
<u>status</u>	Number of Dominant Specie That Are OBL, FACW, or FA		3	(A)
	Total Number of Dominant Species Across All Strata:		3	(B)
	Percent of Dominant Species That Are OBL, FACW, or FA		100	(A/B)
	Prevalence Index workshe	et:		
	Total % Cover of:	Mu	ltiply by:	
0	OBL species 20	x 1 =	20	
	FACW species 30	x 2 =	60	_
	FAC species 0	x 3 =	0	_
	FACU species 0	x 4 =	0	_
	UPL species 0	_	0	_
	Column Totals: 50	_ x 5 = _ _ (A)	80	(B)
	Prevalence Index = B/	A =	1.6	_
	Hydrophytic Vegetation Inc	dicators:		
	✓ 1 - Rapid Test for Hydro	phytic Ve	getation	
	2 - Dominance Test is >	50%	•	
	3 - Prevalence Index is			
•	4 - Morphological Adapt		rovide sur	porting
3	data in Remarks or o			
	Problematic Hydrophytic			
OBL		vegetati	OII (EXPIR	··· <i>·</i>
FACW FACW	¹ Indicators of hydric soil and be present, unless disturbed			must
	Definitions of Four Vegetat	tion Strat	ta:	
	Tree – Woody plants, exclude more in diameter at breast he height.			
	Sapling/Shrub – Woody pla than 3 in. DBH and greater th m) tall.			
10	Herb – All herbaceous (non- of size, and woody plants les			ardless
10	Woody vine – All woody vin height.	es greate	r than 3.28	3 ft in
	Hydrophytic Vegetation Present? Yes	∕ No	,	

	Remarks:	(Include photo	numbers I	here or on	a separate	sheet.)
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Profile Desc	ription: (Describe to	o the de	oth needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	K Feature:				
(inches) 0-12	Color (moist) 10YR 3/2	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type ¹ C	Loc ²	Texture SCL	Remarks
0-12	101R 3/2	95	101R 4/0			PL		
					-			
					-			
					-			
¹ Type: C=Ce	oncentration, D=Deple	etion, RM	l=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		-						ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfa			148) (Coast Prairie Redox (A16)
Black Hi			Thin Dark Su		•	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(444)	<u>✓</u> Redox Dark S	•	,			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				_ (Other (Explain in Remarks)
	firk Sulface (A12) fucky Mineral (S1) (L l	RR N	Iron-Mangane			IRRN		
	147, 148)	ixix i v ,	MLRA 136		es (i iz) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)	3Inc	dicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					nless disturbed or problematic.
Restrictive I	_ayer (if observed):			·				-
Type:								
Depth (in	ches):						Hydric Soi	I Present? Yes No
Remarks:	,							



Photo 1 Wetland data point wnrb107e_w facing west



Photo 2
Wetland data point wnrb107e_w facing south

Project/Site: Atlantic Coast Pipe	line	City/C	ounty: Northampton		Sampling Date: 3/25/2015		
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb107f_w		
Investigator(s): TP, AS		Section					
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): P		Long: -77.	37749258	Datum: WGS 1984			
Soil Map Unit Name: Wehadkee	loam, 0 to 2 perce	ent slopes, frequently flood	ded	NWI classific	cation: PFO1C		
Are climatic / hydrologic condition	ons on the site typic	cal for this time of year? Y	es No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No		
Are Vegetation, Soil							
					s, important features, etc.		
Hydrophytic Vegetation Preser	nt? Yes	✓ No					
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?		V No	within a Wetland?	res	NO		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicator	s:			Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum o	f one is required; c	heck all that apply)		Surface Soil	Cracks (B6)		
✓ Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)		
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	atterns (B10)		
✓ Saturation (A3)		✓ Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduced	l Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bu			
✓ Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		Stressed Plants (D1)		
Iron Deposits (B5)	(57)				Position (D2)		
Inundation Visible on Aeric				Shallow Aquitard (D3) Microtopographic Relief (D4)			
Water-Stained Leaves (BS Aquatic Fauna (B13)	")			✓ FAC-Neutra			
Field Observations:				TAO Neutra	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Surface Water Present?	Yes V No	Depth (inches):	4				
Water Table Present?			0				
Saturation Present?		Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes V No		
(includes capillary fringe)					100 <u></u>		
Describe Recorded Data (stream	am gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ailable:			
Remarks:							
romano.							

Sampling	Point: wnrb107f_	w

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Ulmus rubra	10	Yes	FAC	Total Number of Descions
3. Quercus phellos	5	No	FAC	Total Number of Dominant Species Across All Strata: 5 (B)
4				Species / torocc / till otratia.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cover		
50% of total cover:17.5	20% of	total cover:	7	ODL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Acer rubrum	15	Yes	FAC	FAC species $_{}$ 50 x 3 = $_{}$ 150
2. Taxodium distichum	10	Yes	OBL	FACU species0 x 4 =0
3. Salix nigra	10	Yes	OBL	UPL species 0 x 5 = 0
	5			70 170
4. Quercus phellos		No	FAC	Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.42
6				1 Tevalence maex = B/TC=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 20	20% of	total cover:	8	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				3
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Have All have accuse (non woods) plants regardless
	0	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:	0	of size, and woody plants loss than 6.25 it tall.
30 /0 01 total cover	20 /0 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		riesent? res No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Feature	S	_	
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
0-12	10YR 2/1	100			SCL	
	-				-	
	· 					· · · · · · · · · · · · · · · · · · ·
		·			· .	
		 				
		<u> </u>				
						•
						
	· 				2	
		letion, RM=R	educed Matrix, MS=Maske	d Sand Grains.		PL=Pore Lining, M=Matrix.
dric Soil	Indicators:					ators for Problematic Hydric Soils ³ :
_ Histoso			Dark Surface (S7)			2 cm Muck (A10) (MLRA 147)
_ Histic E	pipedon (A2)		Polyvalue Below Surfa	ce (S8) (MLRA 147	7, 148) (Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Surface (S9			(MLRA 147, 148)
_ Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix	(F2)	F	Piedmont Floodplain Soils (F19)
_ Stratifie	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)
_ 2 cm M	uck (A10) (LRR N)		Redox Dark Surface (⁼ 6)	\	/ery Shallow Dark Surface (TF12)
_ Deplete	ed Below Dark Surfac	e (A11)	Depleted Dark Surface	e (F7)	(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F	8)		
_ Sandy I	Mucky Mineral (S1) (I	_RR N,	Iron-Manganese Mass	es (F12) (LRR N,		
MLR	A 147, 148)		MLRA 136)			
Sandy (Gleyed Matrix (S4)		✓ Umbric Surface (F13)	(MLRA 136, 122)	³ Inc	dicators of hydrophytic vegetation and
Sandy I	Redox (S5)		Piedmont Floodplain S	oils (F19) (MLRA 1	48) we	etland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent Material (I	21) (MLRA 127, 1 4	17) ur	nless disturbed or problematic.
estrictive	Layer (if observed):					
Туре:						
	nches):		_		Hydric Soi	I Present? Yes ✓ No
			-		Tiyunc 301	11 leseilt: 1es 140
emarks:						



Photo 1
Wetland data point wnrb107f_w facing south



Photo 2
Wetland data point wnrb107f_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/25/2015		
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb107_u		
			n, Township, Range: No				
				e, convex, none): none Slope (%):4			
Subregion (LRR or MLRA): P					Datum: WGS 1984		
Soil Map Unit Name: Wehadkee loam, C		s, frequently flood	led	NWI classific	ation: None		
Are climatic / hydrologic conditions on th	e site typical for thi	s time of year? Y	es No ((If no, explain in R	emarks.)		
Are Vegetation, Soil, or I	-lydrologys	significantly disturl	ped? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or I							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes N	lo					
Hydric Soil Present?	Yes N		Is the Sampled Area within a Wetland?	Vos	No		
Wetland Hydrology Present?	Yes N		within a Wetland:	165	NO		
HYDROLOGY							
Wetland Hydrology Indicators:					tors (minimum of two required)		
Primary Indicators (minimum of one is	•			Surface Soil Cracks (B6)			
Surface Water (A1)		e Aquatic Plants (Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	-	Irogen Sulfide Odd	5 . (00)	Drainage Pat			
Saturation (A3) Water Marks (B1)		sence of Reduced	-	Moss Trim Li			
Sediment Deposits (B2)			n in Tilled Soils (C6)	 Dry-Season Water Table (C2) cils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) 			
Drift Deposits (B3)		n Muck Surface (C					
Algal Mat or Crust (B4)		er (Explain in Ren			tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqui	tard (D3)		
Water-Stained Leaves (B9)					phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
	No De						
	No <u> </u>						
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	pth (inches):	Wetland H	Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gaug	e, monitoring well,	aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Remarks.							

Samoling Point will bis -c	Sampling	Point: wnrb107_	_u
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•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liriodendron tulipifera	25	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Liquidambar styraciflua	10	Yes	FAC	Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				(=/
5				Percent of Dominant Species That Are ORL FACW or FAC: 60 (A/R)
0				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	35			Total % Cover of: Multiply by:
47.5	.——'	= Total Cove	r 7	OBL species x 1 = 0
50% of total cover: 17.5	20% of	total cover:		0
Sapling/Shrub Stratum (Plot size:)				FACW species X Z =
1. Ilex opaca	10	Yes	FACU	FAC species X 3 =
2. Liquidambar styraciflua	10	Yes	FAC	FACU species x 4 =
3				UPL species $0 \times 5 = 0$
4				Column Totals:60
5				0.50
				Prevalence Index = B/A =3.58
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	20	= Total Cove	r ,	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:10	20% of	total cover:_	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				•
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3				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				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
	0	= Total Cove	<u> </u>	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cover:	1	
Woody Vine Stratum (Plot size: 30)	2070 01	total 00ver		Woody vine – All woody vines greater than 3.28 ft in
1 Vitis rotundifolia	5	Yes	FAC	height.
·				
2				
3				
4				Hydrophytic
5				Vegetation
	5	= Total Cove	r	Present? Yes No
50% of total cover: 2.5		total cover:	1	
Remarks: (Include photo numbers here or on a separate si				
(morado proto namboro noto or on a deparato o	,			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Lo	c ² Texture	Remarks
0-4	10YR 3/2	100		LS	salt/pepper
4-12	10YR 3/3	100		SL	
					
		<u> </u>			
		 		-	• -
		<u> </u>			
	-	<u> </u>			
		<u> </u>			-
Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:				cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)	2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 1		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	1	Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark Surface (F6)	\	Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	(Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
Sandy N	Mucky Mineral (S1) (L	LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
MLR	A 147, 148)		MLRA 136)		
Sandy C	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	2) 3Inc	dicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF	RA 148) w	etland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent Material (F21) (MLRA 127	7, 147) ur	nless disturbed or problematic.
Restrictive	Layer (if observed):	:			
Type:			<u></u>		
Depth (in	ches):			Hydric Soi	il Present? Yes No 🚩
Remarks:					



Photo 1 Upland data point wnrb107_u facing east



Photo 2 Upland data point wnrb107_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/27/2015
Applicant/Owner: Dominion					Sampling Point: wnrb108f_w
Investigator(s): TP, AS			on, Township, Range: No		
Landform (hillslope, terrace, etc.): d				convex, none): none Slope (%):	
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Pactolus loam	y fine sand, 0 to 2 pe	ercent slopes		NWI classific	cation: None
Are climatic / hydrologic conditions of					
Are Vegetation, Soil,					
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
					<u> </u>
Hydrio Soil Propert?	Yes	No	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No
Remarks:	103	110			
HYDROLOGY					
Wetland Hydrology Indicators:					ators (minimum of two required)
Primary Indicators (minimum of one	-			Surface Soil	, ,
Surface Water (A1)		True Aquatic Plants (I			getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3) Algal Mat or Crust (B4)		Γhin Muck Surface (C Other (Explain in Ren			isible on Aerial Imagery (C9) stressed Plants (D1)
Iron Deposits (B5)	_ `	other (Explain in Ken	iaiks)		Position (D2)
Inundation Visible on Aerial Im	nagery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)	(2.)				aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	
Field Observations:					
Surface Water Present? Yes	s No	Depth (inches):			
	s No		1		
	s / No		0 Wetland H	lydrology Prese	nt? Yes 🗸 No
(includes capillary fringe)			_		
Describe Recorded Data (stream g	auge, monitoring we	eii, aeriai priotos, pre	vious inspections), ii ava	iliable.	
Remarks:					

Sampling Point: wnrb1	08f_	_w
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00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Quercus nigra	15	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Betula nigra	10	Yes	FACW	
3. Acer rubrum	10	Yes	FAC	Total Number of Dominant
		No	FAC	Species Across All Strata:5 (B)
4. Liquidambar styraciflua				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				(\
7		· <u> </u>		Prevalence Index worksheet:
1	40			Total % Cover of: Multiply by:
20	:	= Total Cove	r 8	OBL species 0 x 1 =0
50% of total cover:20	20% of	total cover:_		20 40
Sapling/Shrub Stratum (Plot size: 15				FACW species x z =
1. Magnolia virginiana	10	Yes	FACW	FAC species x 3 =
2. Carpinus caroliniana	5	Yes	FAC	FACU species0 x 4 =0
				UPL species 0 x 5 = 0
3		-		55 145
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.63
				Trevalence mack = B/TC =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	15 .	= Total Cove	r	✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5		total cover:_	^	4 - Morphological Adaptations ¹ (Provide supporting
_	20% 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1		-		1 Toblematic Hydrophytic Vegetation (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3		-		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5		-		
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.		·		
111	0			Herb – All herbaceous (non-woody) plants, regardless
0		= Total Cove	_	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0	20% of	total cover:_	0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
3		-		
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover: 0		total cover:_	0	
30 % of total cover		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc		e Remarks
0-9	10YR 2/1	100		SL	
9-12	10YR 2/2	100		SL	
					
					<u> </u>
_					
					<u> </u>
					
					
		letion, RM=R	educed Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:			Inc	dicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)		_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	147, 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	,	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	0 (/ 11 1)	Redox Depressions (F8)		_ other (Explain in Remaile)
	/lucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (LRR N	N.	
	A 147, 148)	-1414 14,	MLRA 136)	٠,	
	Gleyed Matrix (S4)		✓ Umbric Surface (F13) (MLRA 136, 122	3 \	³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 136, 122		wetland hydrology must be present,
-					
	Matrix (S6)		Red Parent Material (F21) (MLRA 127	, 147)	unless disturbed or problematic.
	Layer (if observed):				
Type:			<u> </u>		_
Depth (in	ches):		<u> </u>	Hydric S	Soil Present? Yes No
Remarks:					



Photo 1 Wetland data point wnrb108f_w facing north



Photo 2
Wetland data point wnrb108f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Northampton	Sampling Date: 3/27/2015			
Applicant/Owner: Dominion	State	e: NC Sampling Point: wnrb108e_w			
Investigator(s): TP, AS	Section, Township, Range: No PLSS				
	Local relief (concave, convex, none): no				
Subregion (LRR or MLRA): P	Lat: 36.53365118 Long: -77.368255	Datum: WGS 1984			
Soil Map Unit Name: Tomotley fine sandy loam, 0	to 2 percent slopes, rarely flooded N	WI classification: None			
Are climatic / hydrologic conditions on the site typi	al for this time of year? Yes No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circun	nstances" present? Yes No			
	naturally problematic? (If needed, explain				
	e map showing sampling point locations, to				
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area				
Hydric Soil Present? Yes	No.	Yes No			
	within a Wetland?	res No			
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:	Sacon	dary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required;		urface Soil Cracks (B6)			
		parsely Vegetated Concave Surface (B8)			
Surface Water (A1) High Water Table (A2)		rainage Patterns (B10)			
Saturation (A3)		loss Trim Lines (B16)			
Water Marks (B1)		Moss Tim Ellies (BTo) Dry-Season Water Table (C2)			
Sediment Deposits (B2)		rayfish Burrows (C8)			
Drift Deposits (B3)		aturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		tunted or Stressed Plants (D1)			
Iron Deposits (B5)	G	eomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)	SI	hallow Aquitard (D3)			
Water-Stained Leaves (B9)	M	icrotopographic Relief (D4)			
Aquatic Fauna (B13)	<u>•</u> F/	AC-Neutral Test (D5)			
Field Observations:					
	Depth (inches):				
	Depth (inches):11				
	Depth (inches):6 Wetland Hydrold	ogy Present? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous inspections), if available:				
, , ,					
Remarks:					
1					

Sampling Po	nt·wnrb108e_	W
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Openies / toress / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by: OBL species 25 x 1 = 25
50% of total cover:12.5	20% of	total cover:	5	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species
1				FAC species0 x 3 =0
				FACU species0 x 4 =0
2				UPL species
3				50 75
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.5
6				Trevalence mack = B/T(=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0¹
2		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				· · ·
1. Galium tinctorium	15	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Arundinaria gigantea	15	Yes	FACW	
3. Woodwardia areolata	10	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Rhexia virginica	10	Yes	OBL	be present, unless disturbed or problematic.
·" 				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				One Provide the Management of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
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	50			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 25		= Total Cover	10	of size, and woody plants less than 3.28 ft tall.
0070 01 total 00701:	20% of	total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		Present? Yes No No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features	S1		_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-12	10YR 2/1	100					SCL			
					-			-		
	•				-					
¹Type: C=C	oncentration, D=Deple	etion RM-R	educed Matrix MS	S-Masked	I Sand Gr	ains	² Location: P	I =Pore Linir	ng, M=Matrix.	
Hydric Soil		Suon, ravi–ra	caacca Matrix, Mc	J-IVIASKCU	oana On	airio.			oblematic Hyd	dric Soils ³ :
Histosol			Dark Surface	(97)					(10) (MLRA 14	
	pipedon (A2)		Polyvalue Be	. ,	CD (CR) /M	II R A 147			Redox (A16)	•••
	istic (A3)		Polyvalue Be				170) (MLRA 147		
	en Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)	_		odplain Soils (l	E10)
	d Layers (A5)		Depleted Mat		r <i>z)</i>			(MLRA 13		19)
	uck (A10) (LRR N)		Redox Dark \$:6)		\		Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar						n in Remarks)	(11 12)
	ark Surface (A12)	(/////	Redox Depre				_ `	oti (Explai	ii iii rteiliaikoj	
	/ucky Mineral (S1) (L	RR N.	Iron-Mangan			I RR N				
	A 147, 148)	, , , , , , , , , , , , , , , , , , ,	MLRA 13		00 (1 12) (
	Gleyed Matrix (S4)		✓ Umbric Surfa	•	MIRA 13	6 122)	³ Inc	licators of hy	drophytic vege	tation and
	Redox (S5)		Piedmont Flo						ogy must be pi	
	Matrix (S6)		Red Parent N						ed or problema	
	Layer (if observed):		Red r drent n	natorial (i	21) (IVILIX	A 127, 147	, u.,	iloso disturbe	or problema	
	_uyo: (obco: rou).									
Type:	-L \		_					D	v V	NI -
	ches):		=				Hydric Soil	Present?	Yes	No
Remarks:										



Photo 1
Wetland data point wnrb108e_w facing west



Photo 2
Wetland data point wnrb108e_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	county: Northampton		Sampling Date: 3/27/2015		
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb108_u		
		Section	on, Township, Range: No	PLSS in this area	1		
Landform (hillslope, terrace, etc.): hill sl							
Subregion (LRR or MLRA): P	Lat: 36	5.53349452	Long: -77.3	36752073	Datum: WGS 1984		
Soil Map Unit Name: Pactolus loamy fir	ie sand, 0 to 2 per	cent slopes		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	ne site typical for th	nis time of year? Y	es No ((If no, explain in R	emarks.)		
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present?	Yes	No					
HYDROLOGY							
				Secondary Indica	tors (minimum of two required)		
Wetland Hydrology Indicators:	required; check of	I that apply)					
Primary Indicators (minimum of one is	•			Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)			
Surface Water (A1) High Water Table (A2)		ue Aquatic Plants (drogen Sulfide Od		Drainage Par			
Saturation (A3)	-	-		Moss Trim Li			
Water Marks (B1)		esence of Reduced	-		Water Table (C2)		
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Buri			
Drift Deposits (B3)	Th	in Muck Surface (C	27)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Ot	her (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic			
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqui			
Water-Stained Leaves (B9)					phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present? Yes	No V D	anth (inches):					
		epth (inches): epth (inches):					
		epth (inches): epth (inches):		lydrology Presen	t? Yes No		
(includes capillary fringe)	NO D	eptii (iiiciies)	Wetland I	iyurology Fresen	II: 165 NO		
Describe Recorded Data (stream gaug	je, monitoring well	, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Kemarks.							

Sampling	Point: wnrb108_i	u
Samulinu	FUIII.	

, ,	Absolute	Dominant In	odicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 Liriodendron tulipifera	30	Yes	FACU	Number of Dominant Species That Are OBL_FACW_or FAC: 3 (A)
•	10	Yes		That Are OBL, FACW, or FAC:3 (A)
2. Quercus nigra		res	FAC	Total Number of Dominant
3				Species Across All Strata: 5 (B)
•				(2)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:60 (A/B)
6		-		
7.				Prevalence Index worksheet:
	40	= Total Cove	-	Total % Cover of: Multiply by:
50% of total cover: 20			8	OBL species0 x 1 =0
15	20% of	total cover:_		0
Sapling/Shrub Stratum (Plot size:)				FACW species $\frac{0}{25}$ $\times 2 = \frac{0}{75}$
1. Acer rubrum	10	Yes	FAC	FAC species x 3 =
2. Ilex opaca	10	Yes	FACU	FACU species40 x 4 =160
				UPL species 0 x 5 = 0
3				65 335
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.61
		·		Prevalence Index = B/A =3.61
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9		· ·		
J	20			3 - Prevalence Index is ≤3.0 ¹
10		= Total Cove	r 1	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:10	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
_				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7		-		height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
9				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
	0	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:_		or oleo, and woody planto loop than oleo it tall.
20	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1. Vitis rotundifolia	5	Yes	FAC	
2.				
3				
4				Hydrophytic
5.				Vegetation
	5	= Total Cove	<u> </u>	Present? Yes No
50% of total cover: 2.5		total cover:_		
		total cover		
Remarks: (Include photo numbers here or on a separate si	,			

Depth	Matrix		Redox Features				
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Lo	oc ² Text		Remarks	
0-5	10YR 3/3	100		S	L		
5-12	10YR 5/4	100		sc	 CL		
	-	· ——— —					
		·					
		. <u> </u>					
							
		·					
							
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.	² Locati	ion: PL=Pore Lir		
Hydric Soil	Indicators:				Indicators for F	roblematic Hyd	dric Soils³:
Histosol	(A1)		Dark Surface (S7)		2 cm Muck	(A10) (MLRA 14	17)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA	\ 147, 148)		ie Redox (A16)	•
	stic (A3)		Thin Dark Surface (S9) (MLRA 147,		(MLRA 1		
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	,		loodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 1		,
	uck (A10) (LRR N)		Redox Dark Surface (F6)			w Dark Surface	(TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)			ain in Remarks)	, ,
	ark Surface (A12)	5 (711)	Redox Depressions (F8)		0.1101 (Exp.	an in reomane,	
	lucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (LRR	N			
	A 147, 148)	-1414 14,	MLRA 136)	14,			
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	221	3Indicators of I	hydrophytic vege	atation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 136, 12			ology must be p	
	Matrix (S6)		Red Parent Material (F21) (MLRA 12	17, 147)	uniess distur	bed or problema	iliC.
	Layer (if observed):						
Type:			<u> </u>				
Depth (in	ches):		<u> </u>	Hydri	c Soil Present?	Yes	No
Remarks:				I			



Photo 1 Upland data point wnrb108_u facing east



Photo 2 Upland data point wnrb108_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/27/2015
Applicant/Owner: Dominion					Sampling Point: wnrb108f_w
Investigator(s): TP, AS			on, Township, Range: No		
Landform (hillslope, terrace, etc.): d					
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Pactolus loam	y fine sand, 0 to 2 pe	ercent slopes		NWI classific	cation: None
Are climatic / hydrologic conditions of					
Are Vegetation, Soil,					
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
					<u> </u>
Hydrio Soil Propert?	Yes	No	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes V	No	within a Wetland?	Yes	No
Remarks:	103	110			
HYDROLOGY					
Wetland Hydrology Indicators:					ators (minimum of two required)
Primary Indicators (minimum of one	-			Surface Soil	, ,
Surface Water (A1)	B14)		getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pa	
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3) Algal Mat or Crust (B4)		Γhin Muck Surface (C Other (Explain in Ren			isible on Aerial Imagery (C9) stressed Plants (D1)
Iron Deposits (B5)	_ `	other (Explain in Ken	iaiks)		Position (D2)
Inundation Visible on Aerial Im	nagery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)	(2.)				aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	
Field Observations:					
Surface Water Present? Yes	s No	Depth (inches):			
	s No		1		
	s / No		0 Wetland H	lydrology Prese	nt? Yes 🗸 No
(includes capillary fringe)			_		
Describe Recorded Data (stream g	auge, monitoring we	eii, aeriai priotos, pre	vious inspections), ii ava	iliable.	
Remarks:					

Sampling Point: wnrb1	08f_	_w
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00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Quercus nigra	15	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Betula nigra	10	Yes	FACW	
3. Acer rubrum	10	Yes	FAC	Total Number of Dominant
		No	FAC	Species Across All Strata:5 (B)
4. Liquidambar styraciflua				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				(\
7		· <u> </u>		Prevalence Index worksheet:
1	40			Total % Cover of: Multiply by:
20	:	= Total Cove	r 8	OBL species 0 x 1 =0
50% of total cover:20	20% of	total cover:_		20 40
Sapling/Shrub Stratum (Plot size: 15				FACW species x z =
1. Magnolia virginiana	10	Yes	FACW	FAC species x 3 =
2. Carpinus caroliniana	5	Yes	FAC	FACU species0 x 4 =0
				UPL species 0 x 5 = 0
3		-		55 145
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.63
				Trevalence mack = B/TC =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	15 .	= Total Cove	r	✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5		total cover:_	^	4 - Morphological Adaptations ¹ (Provide supporting
_	20% 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation ¹ (Explain)
1				1 Toblematic Hydrophytic Vegetation (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3		-		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.		·		
111	0			Herb – All herbaceous (non-woody) plants, regardless
0		= Total Cove	_	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0	20% of	total cover:_	0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
3		-		
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:		total cover:_	0	
30 % of total cover		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc		e Remarks
0-9	10YR 2/1	100		SL	
9-12	10YR 2/2	100		SL	
					
					<u> </u>
_					
					<u> </u>
					
					
		letion, RM=R	educed Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:			Inc	dicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface (S7)		_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	147, 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	,	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	0 (/ 11 1)	Redox Depressions (F8)		_ other (Explain in Remaile)
	/lucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (LRR N	N.	
	A 147, 148)	-1414 14,	MLRA 136)	٠,	
	Gleyed Matrix (S4)		✓ Umbric Surface (F13) (MLRA 136, 122	3 \	³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 136, 122		wetland hydrology must be present,
-					
	Matrix (S6)		Red Parent Material (F21) (MLRA 127	, 147)	unless disturbed or problematic.
	Layer (if observed):				
Type:			<u> </u>		_
Depth (in	ches):		<u> </u>	Hydric S	Soil Present? Yes No
Remarks:					



Photo 1 Wetland data point wnrb108f_w facing north



Photo 2
Wetland data point wnrb108f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Northampton	Sampling Date: 3/27/2015				
Applicant/Owner: Dominion	State	e: NC Sampling Point: wnrb108e_w				
Investigator(s): TP, AS Section, Township, Range: No PLSS in this area						
	Local relief (concave, convex, none): no					
Subregion (LRR or MLRA): P	Lat: 36.53365118 Long: -77.368255	Datum: WGS 1984				
Soil Map Unit Name: Tomotley fine sandy loam, 0	to 2 percent slopes, rarely flooded N	WI classification: None				
Are climatic / hydrologic conditions on the site typi	al for this time of year? Yes No (If no, e	explain in Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circun	nstances" present? Yes No				
	naturally problematic? (If needed, explain					
	e map showing sampling point locations, to					
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area					
Hydric Soil Present? Yes	No.	Yes No				
	within a Wetland?	res No				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:	Sacon	dary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required;		urface Soil Cracks (B6)				
		parsely Vegetated Concave Surface (B8)				
Surface Water (A1) High Water Table (A2)		rainage Patterns (B10)				
Saturation (A3)		loss Trim Lines (B16)				
Water Marks (B1)		ry-Season Water Table (C2)				
Sediment Deposits (B2)		rayfish Burrows (C8)				
Drift Deposits (B3)		aturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		tunted or Stressed Plants (D1)				
Iron Deposits (B5)	G	eomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	SI	hallow Aquitard (D3)				
Water-Stained Leaves (B9)	M	icrotopographic Relief (D4)				
Aquatic Fauna (B13)	<u>•</u> F/	AC-Neutral Test (D5)				
Field Observations:						
	Depth (inches):					
	Depth (inches):11					
	Depth (inches):6 Wetland Hydrold	ogy Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous inspections), if available:					
, , ,						
Remarks:						
1						

Sampling Po	nt·wnrb108e_	W
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Openies / toress / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by: OBL species 25 x 1 = 25
50% of total cover:12.5	20% of	total cover:	5	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species
1				FAC species0 x 3 =0
				FACU species0 x 4 =0
2				UPL species
3				50 75
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.5
6				1 Tevalence mack = B/T(=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0¹
2		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				· · ·
1. Galium tinctorium	15	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Arundinaria gigantea	15	Yes	FACW	
3. Woodwardia areolata	10	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
4. Rhexia virginica	10	Yes	OBL	be present, unless disturbed or problematic.
·" 				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				One Provide the Management of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
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	50			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 25		= Total Cover	10	of size, and woody plants less than 3.28 ft tall.
0070 01 total 00701:	20% of	total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cover		Present? Yes No No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features	S1		_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-12	10YR 2/1	100					SCL			
					-			-		
	•				-					
¹Type: C=C	oncentration, D=Deple	etion RM-R	educed Matrix MS	S-Masked	I Sand Gr	ains	² Location: P	I =Pore Linir	ng, M=Matrix.	
Hydric Soil		Suon, ravi–ra	caacca Matrix, Mc	J-IVIASKCU	oana On	airio.			oblematic Hyd	dric Soils ³ :
Histosol			Dark Surface	(97)					(10) (MLRA 14	
	pipedon (A2)		Polyvalue Be	. ,	CD (CR) /M	II R A 147			Redox (A16)	•••
	istic (A3)		Polyvalue Be				170) (MLRA 147		
	en Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)	_		odplain Soils (l	E10)
	d Layers (A5)		Depleted Mat		r <i>z)</i>			(MLRA 13		19)
	uck (A10) (LRR N)		Redox Dark \$:6)		\		Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Dar						n in Remarks)	(11 12)
	ark Surface (A12)	(/////	Redox Depre				_ `	oti (Explai	ii iii rteiliaikoj	
	/ucky Mineral (S1) (L	RR N.	Iron-Mangan			I RR N				
	A 147, 148)	, , , , , , , , , , , , , , , , , , ,	MLRA 13		00 (1 12) (
	Gleyed Matrix (S4)		✓ Umbric Surfa	•	MIRA 13	6 122)	³ Inc	licators of hy	drophytic vege	tation and
	Redox (S5)		Piedmont Flo						ogy must be pi	
	Matrix (S6)		Red Parent N						ed or problema	
	Layer (if observed):		Red r drent n	natorial (i	21) (IVILIX	A 127, 147	, u.,	iloso disturbe	or problema	
	_uyo: (obco: rou).									
Type:	-L \		_					D	v V	NI -
	ches):		=				Hydric Soil	Present?	Yes	No
Remarks:										



Photo 1
Wetland data point wnrb108e_w facing west



Photo 2
Wetland data point wnrb108e_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	county: Northampton		Sampling Date: 3/27/2015		
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb108_u		
Landform (hillslope, terrace, etc.): hill sl							
Subregion (LRR or MLRA): P	Lat: 36	5.53349452	Long: -77.3	36752073	Datum: WGS 1984		
Soil Map Unit Name: Pactolus loamy fir	ie sand, 0 to 2 per	cent slopes		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	ne site typical for th	nis time of year? Y	es No ((If no, explain in R	emarks.)		
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area				
Hydric Soil Present?	Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present?	Yes	No					
HYDROLOGY							
				Secondary Indica	tors (minimum of two required)		
Wetland Hydrology Indicators:	required; check of	I that apply)					
Primary Indicators (minimum of one is	•			Surface Soil	getated Concave Surface (B8)		
Surface Water (A1) High Water Table (A2)		ue Aquatic Plants (drogen Sulfide Od		Drainage Par			
Saturation (A3)	-	-		Moss Trim Li			
Water Marks (B1)		esence of Reduced	-		Water Table (C2)		
Sediment Deposits (B2)			n in Tilled Soils (C6)				
Drift Deposits (B3)	Th	in Muck Surface (C	27)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Ot	her (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic			
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqui			
Water-Stained Leaves (B9)					phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations: Surface Water Present? Yes	No V D	anth (inches):					
		epth (inches): epth (inches):					
		epth (inches): epth (inches):		lydrology Presen	t? Yes No		
(includes capillary fringe)	NO D	eptii (iiiciies)	Wetland I	iyurology Fresen	II: 165 NO		
Describe Recorded Data (stream gaug	je, monitoring well	, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
Kemarks.							

Sampling	Point: wnrb108_i	u
Samulinu	FUIII.	

, ,	Absolute	Dominant In	odicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 Liriodendron tulipifera	30	Yes	FACU	Number of Dominant Species That Are OBL_FACW_or FAC: 3 (A)
•	10	Yes		That Are OBL, FACW, or FAC:3 (A)
2. Quercus nigra		res	FAC	Total Number of Dominant
3				Species Across All Strata: 5 (B)
•				(2)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:60 (A/B)
6		-		
7.				Prevalence Index worksheet:
	40	= Total Cove	-	Total % Cover of: Multiply by:
50% of total cover: 20			8	OBL species0 x 1 =0
15	20% of	total cover:_		0
Sapling/Shrub Stratum (Plot size:)				FACW species $\frac{0}{25}$ $\times 2 = \frac{0}{75}$
1. Acer rubrum	10	Yes	FAC	FAC species x 3 =
2. Ilex opaca	10	Yes	FACU	FACU species40 x 4 =160
				UPL species 0 x 5 = 0
3				65 335
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.61
		·		Prevalence Index = B/A =3.61
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9		· ·		
J	20			3 - Prevalence Index is ≤3.0 ¹
10		= Total Cove	r 1	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:10	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				
1				Problematic Hydrophytic Vegetation ¹ (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
_				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7		-		height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
9				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
	0	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:_		or oleo, and woody planto loop than oleo it tall.
20	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1. Vitis rotundifolia	5	Yes	FAC	
2.				
3				
4				Hydrophytic
5.				Vegetation
	5	= Total Cove	<u> </u>	Present? Yes No
50% of total cover: 2.5		total cover:_		
		total cover		
Remarks: (Include photo numbers here or on a separate si	,			

Depth	Matrix		Redox Features				
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Lo	oc ² Text		Remarks	
0-5	10YR 3/3	100		S	L		
5-12	10YR 5/4	100		sc	 CL		
	-	· ——— —					
		·					
		. <u> </u>					
							
		·					
							
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.	² Locati	ion: PL=Pore Lir		
Hydric Soil	Indicators:				Indicators for F	roblematic Hyd	dric Soils³:
Histosol	(A1)		Dark Surface (S7)		2 cm Muck	(A10) (MLRA 14	17)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA	A 147, 148)		ie Redox (A16)	•
	stic (A3)		Thin Dark Surface (S9) (MLRA 147,		(MLRA 1		
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	,		loodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 1		,
	uck (A10) (LRR N)		Redox Dark Surface (F6)			w Dark Surface	(TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)			ain in Remarks)	, ,
	ark Surface (A12)	5 (711)	Redox Depressions (F8)		0.1101 (Exp.	an in reamane,	
	lucky Mineral (S1) (L	RR N	Iron-Manganese Masses (F12) (LRR	N			
	A 147, 148)	-1414 14,	MLRA 136)	14,			
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	221	3Indicators of I	hydrophytic vege	atation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 136, 12			ology must be p	
	Matrix (S6)		Red Parent Material (F21) (MLRA 12	17, 147)	uniess distur	bed or problema	iliC.
	Layer (if observed):						
Type:			<u> </u>				
Depth (in	ches):		<u> </u>	Hydri	ic Soil Present?	Yes	No
Remarks:				I			



Photo 1 Upland data point wnrb108_u facing east



Photo 2 Upland data point wnrb108_u facing north

Project/Site: Atlantic Coast Pipeline	City/C	County: Northampton		Sampling Date: 3/28/2015		
Applicant/Owner: DOMINION	,	,	State: NC	Sampling Point: wnrc011f_w		
	Section					
Landform (hillslope, terrace, etc.): depression Subregion (LRR or MLRA): P	Local	l ang7	7.36136354	Slope (70)		
Soil Map Unit Name: Winton fine sandy loam	Lat:Lat:	Long:		None		
Are climatic / hydrologic conditions on the site						
Are Vegetation, Soil, or Hydro	ology significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil, or Hydro	ology naturally problemate	atic? (If needed, e	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attack	h site map showing san	npling point locatio	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	es / No					
	es No	Is the Sampled Area	/			
	es V No	within a Wetland?	Yes	No		
Remarks:						
Data point taken within a disturbed powerline	e ROW.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is requi			Surface Soil	` ,		
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)		
✓ High Water Table (A2)	Marl Deposits (B15) (LR		Drainage Pat			
Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Li			
Water Marks (B1)	Oxidized Rhizospheres a			Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron Recent Iron Reduction in		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Tilled Solls (Co)		Position (D2)		
Iron Deposits (B5)	Other (Explain in Remark	(s)		` '		
Inundation Visible on Aerial Imagery (B		,	Shallow Aquitard (D3) FAC-Neutral Test (D5)			
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): 3					
	No Depth (inches): 0	Wetland H	ydrology Presen	nt? Yes <u>/</u> No		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring wall, porial photos, pro	vious inspections) if avai	ilabla:			
Describe Recorded Data (stream gauge, me	ornitoring well, aerial priotos, pre	evious irispections), ii avai	liable.			
Remarks:						
Wetland hydrology present						
331						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species	
1. Acer rubrum	35	Yes	FAC	· · 2	(A)
2. Quercus alba	5	No	FACU		
3.				Total Number of Dominant Species Across All Strata: 3 ((B)
			_	Species Across Air Strata.	ω)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:100 ((A/B)
6					
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	40	= Total Cove		OBL species0 x 1 =0	
20			Q	FACW species $0 \times 2 = 0$	
50% of total cover:	20% of	total cover:		FAC species 135 x 3 = 405	
Sapling/Shrub Stratum (Plot size:15)				FACU species5 x 4 =20	
1. Acer rubrum	65	Yes	FAC	0	
2. Ilex opaca	15	No	FAC	UPL species	
3.				Column Totals:(A)	(B)
				2.02	
4				Prevalence Index = B/A =3.03	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				✓ 2 - Dominance Test is >50%	
8					
<u> </u>	80	= Total Cove		3 - Prevalence Index is ≤3.0 ¹	
40				Problematic Hydrophytic Vegetation ¹ (Explain))
50% of total cover: 40	20% of	total cover:			
Herb Stratum (Plot size:5				¹ Indicators of hydric soil and wetland hydrology mu	ıst
1				be present, unless disturbed or problematic.	
2.				Definitions of Four Vegetation Strata:	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cn	
4				more in diameter at breast height (DBH), regardles	ss of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regard	less
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 Cove	or.		
E0% of total cover:			^		
50% of total cover.	20% of	total cover:			
Woody Vine Stratum (Plot size:)					
1. Smilax rotundifolia	20	Yes	FAC		
2					
3					
4					
5				Hydrophytic	
	20	= Total Cove	er	Vegetation	
50% of total cover:10	20% of	total cover:	4	Present? Yes No No	
Remarks: (If observed, list morphological adaptations belo					
Remarks. (II observed, list morphological adaptations belo	w).				

SOIL Sampling Point: wnrc011f_w

Profile Des	cription: (Describe t	o the depth	needed to docur	ment the	indicator	or confirm	the absence of in	ndicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 YR 4/2	35					LCOS	
	10 YR 4/2	65					LS	
-				-	· ·			
-					· ——			
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Applica						Indicators for	Problematic Hydric Soils ³ :
Histoso	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S. T. U) 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Muck					/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		•		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		` ,			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U)	Redox Dark		- 6)		(MLRA 1	
_	ucky Mineral (A7) (LR		Depleted Da	rk Surface	e (F7)		•	t Material (TF2)
Muck P	resence (A8) (LRR U))	Redox Depre	essions (F	8)		Very Shallo	ow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	₋RR U)			Other (Exp	lain in Remarks)
Deplete	d Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	iese Mass	es (F12) (LRR O, P,		s of hydrophytic vegetation and
	rairie Redox (A16) (M					', U)		hydrology must be present,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric				unless o	disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
-	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 153	3D)
	ırface (S7) (LRR P, S	, T, U)					I	
Restrictive	Layer (if observed):							
Type:			_					.4
Depth (in	ches):						Hydric Soil Pres	sent? Yes No
Remarks:							I.	
Datapoint tak	en near a disturbed p	owerline RO	W Soils appear	to be dist	urbed due	to powerlin	e ROW activities.	
p								



Photo 1
Wetland data point wnrc011f_w facing south



Photo 2
Wetland data point wnrc011f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: North	ampton	Sampling Date: 3/28/2015		
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc011e_w		
	Section, Township,				
Landform (hillslope, terrace, etc.): Toe of slope					
Subregion (LRR or MLRA): P	Eocal Teller (correat	Long: -77.36144937	Glope (7/)		
Soil Map Unit Name: Winton fine sandy loam, 10 to 25 per	cent slones	Long	Datum None		
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrologys	significantly disturbed?	Are "Normal Circumstances" p	present? Yes No		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing sampling poin	nt locations, transects	s, important features, etc.		
Hydrophytic Vegetation Present? Yes ✓ N	10				
Hydric Soil Present? Yes N	lo V				
Wetland Hydrology Present? Yes V		etland? Yes	No		
Remarks:	L				
Data point taken near a disturbed powerline ROW. Soils a					
HYDROLOGY					
Wetland Hydrology Indicators:		·	ators (minimum of two required)		
Primary Indicators (minimum of one is required; check all		Surface Soil	` '		
	Fauna (B13)		getated Concave Surface (B8)		
	eposits (B15) (LRR U)	Drainage Pa			
	en Sulfide Odor (C1) d Rhizospheres along Living R	Moss Trim L	Water Table (C2)		
	ce of Reduced Iron (C4)	Crayfish Bur			
	Iron Reduction in Tilled Soils (isible on Aerial Imagery (C9)		
	uck Surface (C7)	Geomorphic			
Iron Deposits (B5) Other (I	Explain in Remarks)	Shallow Aqu	itard (D3)		
Inundation Visible 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 De					
Water Table Present? Yes No De					
Saturation Present? Yes No De (includes capillary fringe)	pth (inches):	Wetland Hydrology Preser	nt? Yes V No		
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspect	ions), if available:			
Remarks:					
Wetland hydrology present					

20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A)	ł
2				Total Number of Dominant	
3				Species Across All Strata: 3 (B))
4.					
5.				Percent of Dominant Species That Are ORL FACW or FAC: 66.6666666 (A/I	(D.)
				That Are OBL, FACW, or FAC: 66.6666666 (A/I	B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				OBL species30 x 1 =30	
	0	= Total Cove		0 0	
50% of total cover:0	20% of	total cover:	0	FACW species x 2 = 60	
Sapling/Shrub Stratum (Plot size: 15)				FAC species $x = 3 = 60$	
1				FACU species X 4 =	
2.				UPL species x 5 =	
3.				Column Totals:55 (A)110 (B	3)
4				Prevalence Index = B/A =2	
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	
	0	= Total Cove	er	Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover:		total cover:	^	Problematic Hydrophytic vegetation (Explain)	
		10101 00101.			
Herb Stratum (Plot size: 5 1 Scirpus cyperinus	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must	
·-	20			be present, unless disturbed or problematic.	
2. Cyperus esculentus		Yes	FAC	Definitions of Four Vegetation Strata:	
3. Sphagnum sp.	20	Yes		Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
4. Sorghastrum nutans	5	No	FACU	more in diameter at breast height (DBH), regardless of	
5				height.	
6.				Sapling/Shrub – Woody plants, excluding vines, less	c
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	,
8				Herb – All herbaceous (non-woody) plants, regardles	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	l
11				height.	
12					
	75	= Total Cove	er		
50% of total cover: 37.5					
Woody Vine Stratum (Plot size: 30)	_				
1					
2					
3					
4					
5				Hydrophytic	
	0	= Total Cove	er	Vegetation	
50% of total cover:0				Present? Yes No	
Remarks: (If observed, list morphological adaptations belo			•		
Remarks. (II observed, list morphological adaptations belo	w).				

SOIL Sampling Point: wnrc011e_w

Color mosts % Color (moist) % Type Loc Texture Remarks	Depth	cription: (Describe t Matrix	•		x Feature				•	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Thick Dark surface (A1) Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Thick Dark Surface (A2) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F1) Depleted Below Dark Surface (A1) Depleted Dark Surface (F1) Depleted Below Dark Surface (A1) Type: Very Shallow Dark Surface (F12) Umbric Surface (F1) (MLRA 151) Type: Unmarks (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (A12) Dark Surface (A12) Dark Surface (A12) Dark Surface (A13) Dark Surface (A15) Dark Surface (A16) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Paramarks:	(inches)	Color (moist)				-	Loc ²		Remark	(S
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-16	10 YR 4/2	50					LCOS		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		10 YR 4/2	50					COSL		_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)		· - 				· 				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)						·				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Bolow Dark Surface (F7) Marl (F10) (LRR U) Depleted Bolow Dark Surface (F7) Depleted Bolow Dark Surface (F7) Depleted Bolow Dark Surface (F7) Depleted Bolow Dark Surface (F7) Depleted Bolow Dark Surface (A10) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (MLRA 150B) Reduced Vertic (F18) (MLRA 150B) Jindicators for Problematic Hydric Soils? 1 cm Muck (A9) (LRR O, S) Reduced Vertic (F18) (MLRA 150B) Piedmont Floodplain Soils (F19) (LRR O, P, T) Welland Hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No No	1							2		
Histosol (A1)							ains.			
Histic Epipedon (A2)	-		able to all L				DD 0 T 11		-	ic soils .
Black Histic (A3)	· 	. ,								
Hydrogen Sulfide (A4)										IA MI RA 150A R)
Stratified Layers (A5)	· · · · · · · · · · · · · · · · · · ·				-		. 0,			
Organic Bodies (A6) (LRR P, T, U)		. ,				· -/				
			T, U)			- 6)				,
1 cm Muck (A9) (LRR P, T)	-				•	,				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Method Number 1 (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Fremarks:	Muck P	resence (A8) (LRR U))			8)				ΓF12)
Thick Dark Surface (A12)	· · · · · · · · · · · · · · · · · · ·							Other (Expla	ain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. 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) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Remarks:			e (A11)		. ,	•	•	3		
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic Sandy Gleyed Matrix (S4)			U DA 450A)	_						-
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) Restrictive Layer (if observed):							, U)			
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):			.KK (), (5)				OA 150B)	uniess a	isturbed or proble	mauc.
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): Hydric Soil Present? Yes No								9Δ)		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No									D)	
Restrictive Layer (if observed): Type: Depth (inches):			, T, U)	_	J	, (- / (,,	,	
Depth (inches): No No No No				-						
Remarks:	Type:									
Remarks:	Depth (ir	iches):						Hydric Soil Pres	ent? Yes	No 🗸
		,		<u> </u>				,	<u></u>	<u> </u>
Sour is disturbed due to power line from constituction.		ned due to nowerline F	POW constr	uction						
	Ooli is disturi	bed due to powerline i	COVV CONSTI	uction.						



Photo 1 Wetland data point wnrc011e_w facing east



Photo 2
Wetland data point wnrc011e_w facing south

Project/Site: Atlantic Coast Pipeline		City/County: Northampton		Sampling Date: 3/28/2015			
Applicant/Owner: DOMINION		City/County: Northampton	State: NC	Sampling Point: wnrc011_u			
Investigator(s): Team C							
Landform (hillslope, terrace, etc.): Hill							
Subregion (LRR or MLRA): P		553276 Langui -	77.36128265	Olope (70)			
Soil Map Unit Name: Winton fine sand	ly loam 10 to 25 percent slopes	cong	NNA/I -1:6	Datum. None			
Are climatic / hydrologic conditions on							
Are Vegetation, Soil, o	r Hydrology significantly	/ disturbed? Are "Norma	Il Circumstances"	present? Yes No			
Are Vegetation, Soil, o	r Hydrology naturally pr	oblematic? (If needed,	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map showing	g sampling point location	ons, transects	s, important features, etc.			
Hydrophytic Vegetation Present?	Yes No No						
Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No	within a Wetland?	Yes	No			
Remarks:	165 NO						
Data point taken within a disturbed po	owerline ROW.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)			
	is required; check all that apply)		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one i			Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B1		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Saturation (A3)	Marl Deposits (B1: Hydrogen Sulfide		Drainage Patterns (B10) Moss Trim Lines (B16)				
Water Marks (B1)		neres along Living Roots (C3)		Water Table (C2)			
Sediment Deposits (B2)	Presence of Redu		Crayfish Bur				
Drift Deposits (B3)		ction in Tilled Soils (C6)	-	/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 Visible on Aerial Imag		,	FAC-Neutra				
Water-Stained Leaves (B9)	, , ,			moss (D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes _	No <a> Depth (inches	3):					
Water Table Present? Yes	No V Depth (inches	3):					
Saturation Present? Yes	No V Depth (inches	s): Wetland I	Hydrology Prese	nt? Yes No_			
(includes capillary fringe)			7 11				
Describe Recorded Data (stream gau	ige, monitoring well, aerial phot	os, previous inspections), if ava	allable:				
Domada							
Remarks: No wetland hydrology present							
No wettand flydrology present							
1							

20		Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
3				Species Across All Strata:2 (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)
6				Basedon as Indonesia la de
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by: ORL appears 0 v.1 = 0
	0	= Total Cover		OBL species X 1 =
50% of total cover:0	20% of	total cover: _	0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
2.				UPL species $\frac{0}{70}$ x 5 = $\frac{0}{210}$
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A = 3
5.				Trevalence index - B/A -
6.				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
8				
<u> </u>	0	Total Cover		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:0		total cover:	0	Problematic Hydrophytic Vegetation ¹ (Explain)
E	20 /0 01	total cover		
1. Andropogon virginicus	40	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Dichanthelium laxiflorum	30	Yes	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 height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DDH and greater than 3.20 it (1 iii) tail.
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				
25		= Total Cover		
50% of total cover:35	20% of	total cover: _	14	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
	0 :	= Total Cover		Vegetation
50% of total cover:0	20% of	total cover: _	0	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	w).			
	,			

SOIL Sampling Point: wnrc011_u

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-4	10 YR 4/2	100					SL		
4-16	2.5 Y 4/1	100					SL		
1 _{Tuno} , C=C	oncentration, D=Depl	otion DM-D	aduand Matrix, M		d Cond Cr		2l continue DI -	Doro Lining M-Matri	<u> </u>
	Indicators: (Applica					airis.		Pore Lining, M=Matri	
Histosol		ibic to all El	Polyvalue Be			DD C T II		-	
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside l	MLRA 150A.B)
	en Sulfide (A4)		Loamy Gleye	-		-,		loodplain Soils (F19)	-
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils (
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	- 6)		(MLRA 1	53B)	
5 cm Mi	ucky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)			: Material (TF2)	
	resence (A8) (LRR U))	Redox Depre		8)			w Dark Surface (TF1	2)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (Expl	ain in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oc				T) 31 m di anta m	£	4-4: -
	ark Surface (A12) rairie Redox (A16) (N	II DA 150A\	<pre> Iron-Mangan Umbric Surfa</pre>					s of hydrophytic vege hydrology must be p	
	Mucky Mineral (S1) (L		Delta Ochric			, 0)		listurbed or problema	
	Gleyed Matrix (S4)	0, 0,	Reduced Ver			0A. 150B)	amooo a	ilotarboa or problema	ario.
	Redox (S5)		Piedmont Flo				9A)		
-	d Matrix (S6)						A 149A, 153C, 153	BD)	
Dark Su	ırface (S7) (LRR P, S	, T, U)							
Restrictive	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):		<u></u>				Hydric Soil Pres	sent? Yes	No
Remarks:									
No hydric soi	l present								



Photo 1 Upland data point wnrc011_u facing east



Photo 2 Upland data point wnrc011_u facing south

Project/Site: Atlantic Coast Pipeline	City/	County: Northampton		Sampling Date: 3/28/2015
Applicant/Owner: DOMINION			State: NC	Sampling Point: wnrc011f_w
	Sect			
Landform (hillslope, terrace, etc.): depression (LRR or MLRA): P	1 of 36.5357556	33 Long7	7.36136354	Slope (70)
Soil Map Unit Name: Winton fine sandy lo	Lat: Lat:	Long:		None
Are climatic / hydrologic conditions on the				
Are Vegetation, Soil, or Hy	/drology significantly distu	urbed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hy	drologynaturally problen	natic? (If needed, e	xplain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Atta	ach site map showing sa	mpling point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area	/	
Wetland Hydrology Present?		within a Wetland?	Yes	No
Remarks:				
Data point taken within a disturbed power	rline ROW.			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is re			Surface Soil	` ,
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LF		Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Li	
Water Marks (B1)	Oxidized Rhizospheres			Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced IrRecent Iron Reduction i		Crayfish Buri	isible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7)			Position (D2)
Iron Deposits (B5)	Other (Explain in Rema		Shallow Aqui	` '
Inundation Visible on Aerial Imagery			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): 3			
	No Depth (inches): 0	Wetland H	ydrology Presen	nt? Yes <u>/</u> No
(includes capillary fringe) Describe Recorded Data (stream gauge)	monitoring well perial photos nu	revious inspections) if avai	ilahla:	
Describe Necorded Data (stream gauge)	, monitoring well, aerial photos, pi	evious irispections), ii avai	liable.	
Remarks:				
Wetland hydrology present				

20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species	
1. Acer rubrum	35	Yes	FAC	' '	A)
2. Quercus alba	5	No	FACU		
3.				Total Number of Dominant Species Across All Strata: 3	B)
			_	Species Across Air Strata.	D)
4				Percent of Dominant Species	
5		 -		That Are OBL, FACW, or FAC: 100 (A	A/B)
6					
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	40	= Total Cove	or	OBL species0 x 1 =0	
20			Q	FACW species0 x 2 =0	
50% of total cover:	20% of	total cover:		FAC species 135 x 3 = 405	
Sapling/Shrub Stratum (Plot size:15)				FACU species5 x 4 =20	
1. Acer rubrum	65	Yes	FAC	0	
2. Ilex opaca	15	No	FAC	UPL species	
3.				Column Totals:(A)	(B)
				2.02	
4				Prevalence Index = B/A =3.03	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				✓ 2 - Dominance Test is >50%	
8					
<u> </u>	80	= Total Cove		3 - Prevalence Index is ≤3.0 ¹	
40				Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 40	20% of	total cover:			
Herb Stratum (Plot size:5				¹ Indicators of hydric soil and wetland hydrology mus	st
1				be present, unless disturbed or problematic.	
2.				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	s of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	,,,,
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	in
11				height.	
12.					
	0	= Total Cove	or		
E0% of total cover:			•		
50% of total cover.	20% of	total cover:			
Woody Vine Stratum (Plot size:)					
1. Smilax rotundifolia	20	Yes	FAC		
2					
3					
4					
5				Hydrophytic	
	20	= Total Cove	er	Vegetation	
50% of total cover:10	20% of	total cover:	4	Present? Yes No	
Remarks: (If observed, list morphological adaptations belo					
Remarks. (II observed, list morphological adaptations belo	w).				

SOIL Sampling Point: wnrc011f_w

Profile Des	cription: (Describe t	o the depth	needed to docur	ment the i	indicator	or confirm	the absence of in	ndicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 YR 4/2	35					LCOS	
	10 YR 4/2	65					LS	
-				_				
-					· ———			
					· · ·			
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
	Indicators: (Applica						Indicators for	Problematic Hydric Soils ³ :
Histoso	(A1)		Polyvalue Be	elow Surfa	ice (S8) (L	.RR S. T. U) 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Muck					'ertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)		Loamy Gleye	-		,		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		` ,			Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark		- 6)		(MLRA 1	
5 cm M	ucky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)		Red Paren	t Material (TF2)
Muck P	resence (A8) (LRR U)		Redox Depre	essions (F	8)		Very Shallo	ow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Exp	lain in Remarks)
Deplete	d Below Dark Surface	(A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,		s of hydrophytic vegetation and
	rairie Redox (A16) (M					, U)		hydrology must be present,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric				unless o	disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
-	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 153	BD)
	ırface (S7) (LRR P, S	, T, U)					I	
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):		_				Hydric Soil Pres	sent? Yes No
Remarks:							I.	
Datapoint tak	en near a disturbed p	owerline RO	W Soils appear	to be distu	urbed due	to powerlin	e ROW activities.	
p								



Photo 1
Wetland data point wnrc011f_w facing south



Photo 2
Wetland data point wnrc011f_w facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: Northa	ampton	Sampling Date: 3/28/2015
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc011e_w
	Section, Township,		
Landform (hillslope, terrace, etc.): Toe of slope			
Subregion (LRR or MLRA): P	200al relief (concav	Long: -77.36144937	Glope (70)
Soil Map Unit Name: Winton fine sandy loam, 10 to 25 per	cent slones	Long	Datum None
Are climatic / hydrologic conditions on the site typical for thi			
Are Vegetation, Soil, or Hydrologys	significantly disturbed? A	re "Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (I	f needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling poir	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo		
Hydric Soil Present? Yes N	lo V		•
Wetland Hydrology Present? Yes V		tland? Yes	No
Remarks:	L		
Data point taken near a disturbed powerline ROW. Soils a			
HYDROLOGY			
Wetland Hydrology Indicators:		<u></u>	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all		Surface Soil	` '
	Fauna (B13)		getated Concave Surface (B8)
	eposits (B15) (LRR U)	Drainage Pa	
	en Sulfide Odor (C1) d Rhizospheres along Living Ro	Moss Trim L	Water Table (C2)
	ce of Reduced Iron (C4)	Crayfish Bur	
	Iron Reduction in Tilled Soils (C		isible on Aerial Imagery (C9)
	uck Surface (C7)	Geomorphic	
Iron Deposits (B5) Other (I	Explain in Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	· ·
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No De			
Water Table Present? Yes No De			
Saturation Present? Yes No De (includes capillary fringe)	pth (inches):	Wetland Hydrology Preser	nt? Yes V No
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspecti	ions), if available:	
Remarks:			
Wetland hydrology present			

20	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A)	ł
2				Total Number of Dominant	
3				Species Across All Strata: 3 (B))
4.					
5.				Percent of Dominant Species That Are ORL FACW or FAC: 66.6666666 (A/I	(D.)
				That Are OBL, FACW, or FAC: 66.6666666 (A/I	B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				OBL species30 x 1 =30	
	0	= Total Cove		0 0	
50% of total cover:0	20% of	total cover:	0	FACW species x 2 = 60	
Sapling/Shrub Stratum (Plot size: 15)				FAC species $x = 3 = 60$	
1				FACU species X 4 =	
2.				UPL species x 5 =	
3.				Column Totals:55	3)
4				Prevalence Index = B/A =2	
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	
	0	= Total Cove	er	Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover:		total cover:	^	Problematic Hydrophytic vegetation (Explain)	
		10101 00101.			
Herb Stratum (Plot size: 5 1 Scirpus cyperinus	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must	
·-	20			be present, unless disturbed or problematic.	
2. Cyperus esculentus		Yes	FAC	Definitions of Four Vegetation Strata:	
3. Sphagnum sp.	20	Yes		Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
4. Sorghastrum nutans	5	No	FACU	more in diameter at breast height (DBH), regardless of	
5				height.	
6.				Sapling/Shrub – Woody plants, excluding vines, less	c
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	,
8				Herb – All herbaceous (non-woody) plants, regardles	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	l
11				height.	
12					
	75	= Total Cove	er		
50% of total cover: 37.5					
Woody Vine Stratum (Plot size: 30)	_				
1					
2					
3					
4					
5				Hydrophytic	
	0	= Total Cove	er	Vegetation	
50% of total cover:0				Present? Yes No	
Remarks: (If observed, list morphological adaptations belo			•		
Remarks. (II observed, list morphological adaptations belo	w).				

SOIL Sampling Point: wnrc011e_w

Color mosts % Color (moist) % Type Loc Texture Remarks	Depth	cription: (Describe t Matrix	•		x Feature				•	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Thick Dark surface (A1) Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depleted Matrix, MS=Masked Sand Grains. Thick Dark Surface (A2) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F1) Depleted Below Dark Surface (A1) Depleted Dark Surface (F1) Depleted Below Dark Surface (A1) Type: Very Shallow Dark Surface (F12) Umbric Surface (F1) (MLRA 151) Type: Unmarks (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (A12) Dark Surface (A12) Dark Surface (A12) Dark Surface (A13) Dark Surface (A14) Dark Surface (A15) Dark Surface (A15) Dark Surface (A16) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Permarks:	(inches)	Color (moist)				-	Loc ²		Remark	(S
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-16	10 YR 4/2	50					LCOS		
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Histosol (A1)							ains.			
Histic Epipedon (A2)	-		able to all L				DD 0 T 11		-	ic soils .
Black Histic (A3)	· 	. ,								
Hydrogen Sulfide (A4)										IA MI RA 150A R)
Stratified Layers (A5)	· · · · · · · · · · · · · · · · · · ·				-		. 0,			
Organic Bodies (A6) (LRR P, T, U)		. ,				· -/				
			T, U)			- 6)				,
1 cm Muck (A9) (LRR P, T)	-				•	,				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Method Number 1 (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Fremarks:	Muck P	resence (A8) (LRR U))			8)				ΓF12)
Thick Dark Surface (A12)	· · · · · · · · · · · · · · · · · · ·							Other (Expla	ain in Remarks)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. 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) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Remarks:			e (A11)		. ,	•	•	3		
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic Sandy Gleyed Matrix (S4)			U DA 450A)	_						-
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) Restrictive Layer (if observed):							, U)			
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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): Hydric Soil Present? Yes No								9Δ)		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No									D)	
Restrictive Layer (if observed): Type: Depth (inches):			, T, U)	_	J	, (- / (, , , , , , , , , ,	,	
Depth (inches): No No No No				-						
Remarks:	Type:									
Remarks:	Depth (ir	iches):						Hydric Soil Pres	ent? Yes	No 🗸
		,		<u> </u>				,	<u></u>	<u> </u>
Sour is disturbed due to power line from constituction.		ned due to nowerline F	POW constr	uction						
	Ooli is disturi	bed due to powerline i	COVV CONSTI	uction.						



Photo 1 Wetland data point wnrc011e_w facing east



Photo 2
Wetland data point wnrc011e_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline		City/County: Northampton		Sampling Date: 3/28/2015			
Applicant/Owner: DOMINION		City/County: Northampton	State: NC	Sampling Point: wnrc011_u			
Investigator(s): Team C Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): Hill							
Subregion (LRR or MLRA): P		553276 Langui -	77.36128265	Olope (70)			
Soil Map Unit Name: Winton fine sand	ly loam 10 to 25 percent slopes	cong	NNA/I -1:6	Datum. None			
Are climatic / hydrologic conditions on							
Are Vegetation, Soil, o	r Hydrology significantly	/ disturbed? Are "Norma	Il Circumstances"	present? Yes No			
Are Vegetation, Soil, o	r Hydrology naturally pr	oblematic? (If needed,	explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map showing	g sampling point location	ons, transects	s, important features, etc.			
Hydrophytic Vegetation Present?	Yes No No						
Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No	within a Wetland?	Yes	No			
Remarks:	165 NO						
Data point taken within a disturbed po	owerline ROW.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)			
	is required; check all that apply)						
Primary Indicators (minimum of one i			Surface Soil				
Surface Water (A1)	Aquatic Fauna (B1			egetated Concave Surface (B8)			
High Water Table (A2) Saturation (A3)	Marl Deposits (B1: Hydrogen Sulfide		Drainage Pa Moss Trim L				
Water Marks (B1)		neres along Living Roots (C3)		Water Table (C2)			
Sediment Deposits (B2)	Presence of Redu		Crayfish Bur				
Drift Deposits (B3)		ction in Tilled Soils (C6)	-	/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 Visible on Aerial Imag		,	FAC-Neutra				
Water-Stained Leaves (B9)	, , ,			moss (D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes _	No <a> Depth (inches	3):					
Water Table Present? Yes	No V Depth (inches	3):					
Saturation Present? Yes	No V Depth (inches	s): Wetland I	Hydrology Prese	nt? Yes No_			
(includes capillary fringe)			7 11				
Describe Recorded Data (stream gau	ige, monitoring well, aerial phot	os, previous inspections), if ava	allable:				
Domada							
Remarks: No wetland hydrology present							
No wettand flydrology present							
1							

20		Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
3				Species Across All Strata:2 (B)
4.				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)
6				Basedon as Indonesia la de
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by: ORL appears 0 v.1 = 0
		= Total Cover		OBL species X 1 =
50% of total cover:0	20% of	total cover: _	0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
2.				UPL species $\frac{0}{70}$ x 5 = $\frac{0}{210}$
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A = 3
5.				Trevalence index - B/A -
6.				Hydrophytic Vegetation Indicators:
7			-	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
8				
<u> </u>	0	Total Cover		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:0		total cover:	0	Problematic Hydrophytic Vegetation ¹ (Explain)
E	20 /0 01	total cover		
1. Andropogon virginicus	40	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Dichanthelium laxiflorum	30	Yes	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 height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DDH and greater than 3.20 it (1 iii) tail.
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				
25		= Total Cover		
50% of total cover:35	20% of	total cover: _	14	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
	0 :	= Total Cover		Vegetation
50% of total cover:0	20% of	total cover: _	0	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	w).			
	,			

SOIL Sampling Point: wnrc011_u

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-4	10 YR 4/2	100					SL		
4-16	2.5 Y 4/1	100					SL		
1 _{Tuno} , C=C	oncentration, D=Depl	otion DM-D	aduand Matrix, M		d Cond Cr		2l continue DI -	Doro Lining M-Matri	<u> </u>
	Indicators: (Applica					airis.		Pore Lining, M=Matri	
Histosol		ibic to all El	Polyvalue Be			DD C T II		-	
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside l	MLRA 150A.B)
	en Sulfide (A4)		Loamy Gleye	-		-,		loodplain Soils (F19)	-
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils (
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	- 6)		(MLRA 1	53B)	
5 cm Mi	ucky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)			: Material (TF2)	
	resence (A8) (LRR U))	Redox Depre		8)			w Dark Surface (TF1	2)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (Expl	ain in Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oc				T) 31 m di anta m	£	4-4: -
	ark Surface (A12) rairie Redox (A16) (N	II DA 150A\	<pre> Iron-Mangan Umbric Surfa</pre>					s of hydrophytic vege hydrology must be p	
	Mucky Mineral (S1) (L		Delta Ochric			, 0)		listurbed or problema	
	Gleyed Matrix (S4)	0, 0,	Reduced Ver			0A. 150B)	amooo a	notarboa or problema	aro.
	Redox (S5)		Piedmont Flo				9A)		
-	d Matrix (S6)						A 149A, 153C, 153	BD)	
Dark Su	ırface (S7) (LRR P, S	, T, U)							
Restrictive	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):		<u></u>				Hydric Soil Pres	sent? Yes	No
Remarks:									
No hydric soi	l present								



Photo 1 Upland data point wnrc011_u facing east



Photo 2 Upland data point wnrc011_u facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: North	ampton	Sampling Date: 3/28/2015
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc012f_w
	Section, Township		
Landform (hillslope, terrace, etc.): drainage patterns			
Subregion (LRR or MLRA): P	1 at: 36.53653346	Long: -77.35871129	Datum: WGS 1984
Soil Map Unit Name: Tomotley fine sandy loam, 0 to 2 pe	rcent slopes, rarely flooded	LONG	Datum
Are climatic / hydrologic conditions on the site typical for t	· ·		
Are Vegetation, Soil, or Hydrology			present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing sampling poi	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No la the Com	wlad Awa	
Hydric Soil Present? Yes <u>✓</u>	IS LITE SAIT		No
Wetland Hydrology Present? Yes	No within a w	etianu? Tes	NO
HYDROLOGY Wetland Hydrology Indicators		Socondary India	ators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check a	Il that annly)	Secondary mole	
	ic Fauna (В13)		getated Concave Surface (B8)
	Deposits (B15) (LRR U)		atterns (B10)
	gen Sulfide Odor (C1)	Moss Trim L	
	zed Rhizospheres along Living F		Water Table (C2)
	nce of Reduced Iron (C4)	Crayfish Bu	rrows (C8)
	nt Iron Reduction in Tilled Soils (isible on Aerial Imagery (C9)
	Muck Surface (C7)		Position (D2)
	(Explain in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutra	moss (D8) (LRR T, U)
Field Observations:		Opilagilaili i	1033 (D0) (ERR 1, 0)
Surface Water Present? Yes No [Depth (inches):		
Water Table Present? Yes V No			
Saturation Present? Yes V No D		Wetland Hydrology Prese	nt? Yes 🗸 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring wel	Lagrial photos, provious inspac	tions) if available:	
Describe Recorded Data (stream gauge, monitoring wei	i, aeriai priotos, previous irispec	lions), ii avaliable.	
Remarks:			
Wetland hydrology present			

00	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species	
1. Pinus taeda	40	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)	
2. Acer rubrum	10	No	FAC	Total Number of Deminent	
3. Quercus alba	5	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)	
4.				Cpcolos / toloco / till ctilata.	
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: (A/E	3)
6				Prevalence Index worksheet:	
7					
8				Total % Cover of: Multiply by:	
	55	= Total Cove	er	OBL species X1 =	
50% of total cover: 27.5		total cover:	11	FACW species $0 \times 2 = 0$	
	20 /6 01	lulai cuvei.		FAC species75	
Sapling/Shrub Stratum (Plot size: 15)	4.5	V	E40	FACU species 5 x 4 = 20	
1. Acer rubrum	15	Yes	FAC	0	
2. Ilex opaca	10	Yes	FAC	UPL species x 5 =	
3				Column Totals: (A) 250 (B))
				2.04	
4				Prevalence Index = B/A =2.94	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				✓ 2 - Dominance Test is >50%	
8					
o	25	- Total Cave		3 - Prevalence Index is ≤3.0 ¹	
12.5		= Total Cove		Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 12.5	20% of	total cover:			
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology must	
1. Juncus effusus	5	Yes	OBL	be present, unless disturbed or problematic.	
2.				Definitions of Four Vegetation Strata:	
				Definitions of Four Vegetation Strata.	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of	or
4				more in diameter at breast height (DBH), regardless of	ρf
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, less	
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
7					
8				Herb – All herbaceous (non-woody) plants, regardless	S
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine All woody vines greater than 2.29 ft in	
11.				Woody vine – All woody vines greater than 3.28 ft in height.	
				noight.	
12					
0.5		= Total Cove			
50% of total cover: 2.5	20% of	total cover:	1		
Woody Vine Stratum (Plot size: 30)					
1.					
2					
3					
4					
5				Hydrophytic	
		= Total Cove	ar .	Vegetation	
				Present? Yes No	
50% of total cover:0		total cover:			
Remarks: (If observed, list morphological adaptations below	w).				

SOIL Sampling Point: wnrc012f_w

Depth	cription: (Describe to Matrix	uopui i		x Features				
		%	Color (moist)	% realures	Type ¹	Loc²	Texture	Remarks
0-10	2.5 Y 4/2) YR 3/4	5	C	PL	SL	romano
10-16	2.5 Y 5/2	20					SL	
	2.5 Y 5/4	65 10) YR 5/8	15		M	SL	
Hydric Soil Histosol Histic E Black H Hydroge Stratifier Organic 5 cm Mu Muck Pr 1 cm Mu Deplete Thick Dr Coast P Sandy M Sandy F Stripped Dark Su Restrictive	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) e Bodies (A6) (LRR P, ucky Mineral (A7) (LR resence (A8) (LRR V, uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) erairie Redox (A16) (N Mucky Mineral (S1) (L Gleyed Matrix (S4) erairie (S7) (LRR P, S) Layer (if observed): ches):	T, U) R P, T, U) (A11) (A11) (A150A) RR O, S)	Rs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Pepleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Och Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	wise note low Surface rface (S9) y Mineral (d Matrix (I trix (F3) Surface (F- ck Surface essions (F8 RR U) nric (F11) (ese Masse ce (F13) (I (F17) (ML tic (F18) (I oodplain So	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 3) (MLRA 15 es (F12) (I LRR P, T, T) RA 151) MLRA 15 oils (F19)	RR S, T, U; T, U) O) LRR O, P, ⁻ , U) 0A, 150B) (MLRA 145	Indicators for 1 cm Muc 2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Shal Other (Ex T) 3Indicato wetlan- unless	nt Material (TF2) llow Dark Surface (TF12) plain in Remarks) ors of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.



Photo 1
Wetland data point wnrc012f_w facing west



Photo 2
Wetland data point wnrc012f_w facing north