13ENC

Project/site: ACP Situ County DOT him of the grant of 9-25-14	r
Applicant/Owner: Domumicon States NC Sampling Date:)	146
Investigator(s): DDCDEST Section Township Range:	
Landform (hillslope, terrace, etc.); Do Hern Long Q Local relief (concave, convex, range); (CTTA illoci Q, Clane (RI))	\sim
Subregion (LRR or MLRA): T Lat: 2/0 32/26.315 Long: 77 30/17.861 Detum (-)65.8	11
Soil Map Unit Name: Nehrol PC	7
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" accepta	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks)	
SUMMARY OF FINDINGS - Attach site men chewing come line of the line in the second state of the second stat	
Sommart of Theorem Attach site map showing sampling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: All the parameters present No No Is the Sampled Area within a Wetland? Yes Yes No_	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)	
Ligh Water Table (A2)	
Saturation (A3)	
Water Marks (B1)	
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)	
Drift Deposits (B3)	
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	
Water-Stained Leaves (B9)	
Field Observations:	
Surface Water Present? Yes No Depth (inches): /	
Saturation Present? Yes X No Depth (inches): Sut office Notice and I hadred in the second a No.	
(includes capillary fringe) No No_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Hydrobogy present	

				WNRHO14
EGETATION (Four Strata) – Use scientific na	mes of pla	nts.		Complian Datata - W
A CONTRACT OF A	Absolute	Dominant	Indicator	Sampling Point:
ree Stratum (Plot size:)0/	% Cover	Species?	Status	Dominance Test worksheet:
Liquick Ambur styre, the	5	15	FNO	Number of Dominant Species
Acer rubrum	TO	V	FAI	That Are OBL, FACVV, OF FAC; (A)
Querius shellon	5-	17	The	Total Number of Dominant
FRANCING Deans la "	K		FACW	Species Across All Strata: (B)
permyunanice		Y	FALW	Percent of Dominant Proving
	Contractor to		to to the second se	That Are OBL, FACW or FAC:
	Contraction of the local data		Andrewski	
				Prevalence Index worksheet:
Overselen and a construction of the account of the construction of the			Constructivities and a	Total % Cover of: Multiply by:
	25	Total Cov		OBL species x1=
50% of total bourse 17	5000	I Utal COV	erk	FACW/species
pling/Shrub Stratum (Plot size: 37 H	20% of to	otal cover:	2	
Acer pullaria	10	1	FA.	
Ligin multip	13-	V	FAC	rAco species X4 =
- HOLDBRUDER	10	<u>V</u>	Call Contraction of Call Contraction of Call	
	Guidentic to work working the		CTUDE CONTRACTOR	Column Totals: (A) (B)
				Prevalence Index = B/A =
	Bearing and Public Strength and		-	
	Hotosof			Tryarophytic vegetation indicators:
			Construction of the second	1 - Rapid Test for Hydrophytic Vegetation
			Conductivity of the second second	2 - Dominance Test is >50%
	25-	Total Cov	or	J 3 - Prevalence Index is ≤3.0 ¹
60% off total cover / 2-5	200/ 054	iotal cov	۳ ۲	Problematic Hydrophytic Vegetation ¹ (Explain)
rb Stratum (Plot size: 10 St	20 /0 01 10	otal cover:		
Microsserium Wiminga	27	. /	CIA	¹ Indicators of hydric soil and wetland hydrology must
Phyponyma hugan ingi a	the -	14	FITC	be present, unless disturbed or problematic.
Peliconus sa the	40-	4	OBL	Definitions of Four Vegetation Strata:
Commis line Stan Martin	40-		OBL	Trae - Woody plants excluding vince 2 in (7.6 em) er
Augenica Argenica	2.		FACW	more in diameter at breast height (DBH), regardless of
rister pilosus	10		FACW	height.
hopewa Gardinalis	5		FACW	Sanling/Shruh - Woody plants, evoluting vince loss
Minantelin Scoparium	10		FACUL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		the the second case	endersmainibited abo	
	Record and publication and and the		CHINOR CONTRACTOR	Herb – All herbaceous (non-woody) plants, regardless
	And the second s	Construction of the local diversion of the local diversion of the local diversion of the local diversion of the		or size, and woody plants less than 3.28 π tall.
	Contraction of the		too and the design of the second of	Woody vine - All woody vines greater than 3.28 ft in
	and a second		thromalistic conserves	height.
	1.2	0	** ***********************************	
	100 =	Total Cov	er	
50% of total cover: 50	20% of to	otal cover:	20	
ody Vine Stratum (Plot size:)			0.00010.000	
- H	Colorana and Colorana			
- ANC				
AU		and the second se	Contraction of the second	
1	erfolgen anen, geget setzenneb werte	The second se	Ground and a second	
			G-CONTRACTOR COLORING	. /
	Contractory of the second	Table		Hydrophytic
50% of total on we	0001	I OTAL COV	er.	Present? Yes No
marks: (If observed list morphological address in the	20% of to	otal cover:		
the second s	w),		and a second sec	
rmy Corpo of Castles and	Contraction of the Contraction of Co	CALIFIC CLINES & VALUES		

US Army Corps of Engineers

OIL						WNRHI
Profile Description: (Describe to the de	pth needed to docur	nonééko le	dlagfor	a a a a fl	(1)	Sampling Point:
Depth Matrix	Redo	Y Features	alcator	or contirn	n the absence of inc	licators.)
(inches) Color (moist) %	Color (moist)	%	Type1	Loc ²	Texture	Remarks
2-4 IOYR 3/2				Construction of the second	logan	
1-90 10YR 3/3	104R 5/10	720	California Incontra da 112	Contraction of the local division of the loc	SIL	
-16+ 104R 5/2	TOUR SIL	510	Gife Theme Charles Con-	Participation of the second	Jec	
particular laterscriptions from the construction	1010016	120	Ferdeland and the second	Contraction of the American State	SIL	
Non-second control of the second control of the second control of the second second control of the second control of	MPUB-term and participation to an annual second	Contracting of the Addressed		tinti anno 1	Decision of the second second	
an enderste strategie and a set and a strategie						
	- Print and an and an and an and					
		A Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-		1		
Type: C=Concentration, D=Depletion, BN	SReduced Matrix M	PmMa alvad	0. 10	1	0	
lydric Soil Indicators: (Applicable to a	I LRRs, unless other	wise note	Sand Gra	lins.	Location: PL=P	ore Lining, M=Matrix,
Histosol (A1)	Polyvalue Be	low Surfac	0./S8\/L	50071		oblematic Hydric Soils':
Histic Epipedon (A2)	Thin Dark Su	rface (S9)	(LRR S. 1	r 3, 1, 1 1 U)		A9) (LRR O)
Black Histic (A3)	Loamy Muck	y Mineral (F	=1) (LRR	(Q)	Reduced Ver	tic (F18) (outside MI RA 150A R)
Stratified Lavers (A5)	L Loamy Gleye	d Matrix (F	2)		Piedmont Flo	odplain Soils (F19) (LRR P. S. T)
Organic Bodies (A6) (LRR P. T. U)	Bedox Dark	irix (F3)			Anomalous E	Bright Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, L) Depleted Dar	k Surface) (F7)		(MLRA 15	38)
Muck Presence (A8) (LRR U)	Redox Depre	ssions (F8)		Very Shallow	Material (TF2)
Depleted Below Dark Surface (A ()	Marl (F10) (L	RR U)			Other (Expla	in in Remarks)
Thick Dark Surface (A12)	Depleted Oct	nric (F11) (I	MLRA 15	1)		,
Coast Prairie Redox (A16) (MLRA 150	A) Umbric Surfa	ese Masse	s (F12) (L	RR O, P,	T) ³ Indicators of	of hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (MLF	.RR P, 1, ₹A 151\	φ)	wetland h	ydrology must be present,
Sandy Gleyed Matrix (S4)	Reduced Ver	tic (F18) (IV	ILRA 160	A. 150B)	uniess dis	turbed or problematic.
Stripped Matrix (SC)	Piedmont Flo	odplain So	ils (F19)	MLRA 14	9A)	
Dark Surface (S7) (I BB B B T II)	Anomalous B	right Loam	y Soils (F	20) (MLR	A 149A, 153C, 153D)
Sestrictive Layer (if observed):			the state of the s			
Туре:						1
Depth (inches):						\checkmark
emarks:					Hydric Soil Prese	nt? Yes No
	Hyd	mc.	soè	0 p	resent	~

wnrh014e_w



Wetland data point wnrh014e_w facing east



Wetland data point wnrh014e_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP City/County: North Chan Star
Applicant/Owner: Poninion State: NC Sampling Boing Boi
Investigator(s): ODUEST Section Township Range:
Landform (hillslope, terrace, etc.):
Subregion (LRR or MLRA): T Lat: $\frac{3}{2}$ $\frac{31}{2}$ $\frac{25}{733}$ Long: 77° $\frac{31}{17}$ $\frac{17}{8}$ $\frac{817}{7}$ Solution (contrast, none).
Soil Map Unit Name: Uchag
Are climatic / hydrologic conditions on the site typical for this time of year? Yea
Are Vegetation Soil or Hydrology and significantly distance of year 7 res (If ho, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes // No
SUMMARY OF EINDINGS Attack cite men et en internation in the second explain any answers in Remarks.)
Sommary OF Findings – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No Remarks: A > 0 A > 0 A > 0
Not all Three parameters present
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 (B13) Sparsely Vegetated Concave Surface (B8)
Angel Alder Pable (A2) And Marl Deposits (B15) (LRR U) Drainage Patterns (B10)
Water Marks (B1)
Sediment Deposits (B2)
Drift Deposits (B3)
Algal Mat or Crust (B4)
Iron Deposits (B5) U Other (Explain in Remarks) Shallow Aquitard (D3)
Water-Stained Leaves (B0)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No Set Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No hydrobogy present

	Absolute Dominant Indicate	Sampling Point.
Stratum (Plot size: <u>30 80</u>)	% Cover Species? Status	Number of Dominant Species
Jampar Styracitluc	- 5 V FAC	That Are OBL, FACW, or FAC:
Heer rubrum	10 V FAC	
		Species Across All Strata:
		Percent of Dominant Species
		(A/B)
		Prevalence Index worksheet:
	Contraction of the second seco	Total % Cover of: Multiply by:
	15 = Total Cover	OBL species x 1 =
50% of totathcover: 7. S	20% of total cover: 3	FACW species x 2 =
ling/Shrub Stratum (Plot size: 3040)		FAC species x 3 =
Acerrubaim	15 / FAC	FACU species x 4 =
Unis aleta	5 FACU	UPL species x 5 =
unidombras stuncting	5 FAC	Column Totals: (A) (B)
0 0		
	and a substitution of the	Prevalence Index = B/A =
	national provide rank and an an an and an and an and	 Hydrophytic Vegetation Indicators:
	Bit and a second s	– Lage 1 - Rapid Test for Hydrophytic Vegetation
	in the second	- 📙 2 - Dominance Test is >50%
	75 - Total Cavar	- 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 12	S 20% of total anyon 5	Problematic Hydrophytic Vegetation ¹ (Explain)
b Stratum (Plot size: 10 ft)		-
Planterce more rugelli	\$5 FAVI	Indicators of hydric soil and wetland hydrology must
Fritolium repens	15 FACI	De present, unless disturbed or problematic.
assig fasiculata	5 V FACI	Definitions of Four Vegetation Strata:
Ambrosia ademisitolia	10 VEHCU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Summerowia striata	15 JEACI	— more in diameter at breast height (DBH), regardless of 1 height.
phantopus cordinicana	5 / FACI	
Nicrostearum Umines	15 J FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 2 00 ft (4 m) (4 m)
Jaalinus fasiculata	K / KA/	
Festuca prindensis	IA THE	Herb – All herbaceous (non-woody) plants, regardless
Digitaria ciliaris	FILL FALL	2 of size, and woody plants less than 3.28 ft tall.
Dichartholium aciculous	ID FAC	Woody vine - All woody vines greater than 3.28 ft in
the second control of the second seco	<u> </u>	/ height.
	IN Tatal Course	-
50% of total cover: 57		
dy Vine Stratum (Plot size: 30 H	20% of total cover: <u>PU</u>	-
(
-152/		-
NDP		-
	Construction (Construction) Construction	-
	Management and an	-
		- Hydrophytic
	= I otal Cover	Present? Ves No
50% of total anyon	20% of total cover:	

~		WNRHU
JIL		Someline Dates
rofile Description: (Describe to the dept	h needed to document the indicator or confirm	Sampling Point:
Depth <u>Matrix</u>	Redox Features	i the absence of indicators.)
- 4 Louge Kla	Color (moist) % Type1 Loc2	Remarks
1 9 10910 513		Space loran
- I WYRSTY		Sandeling
-16+ 104R 5/6	General Parallectures Officerentiaries Interaction	- O ANG GUNAN
		- FAngerloam
	and a second	
ype: C=Concentration, D=Depletion, RM=I	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining M=Matrix
Julie Soli Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Solls ³ :
Histic Enjadon (A2)	Polyvalue Below Surface (S8) (LRR S, T, U	1 cm Muck (A9) (LRR 0)
Black Histic (A3)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Hydrogen Sulfide (A4)	Loamy Gleved Matrix (E2)	Reduced Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
Muck Presence (A8) (I RR II)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
1 cm Muck (A9) (LRR P, T)	Mari (510) (LBB LD	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Ochric (E11) (MI RA 151)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O. P.	T) ³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) (IRRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Redox (S5)	Piedmont Eloodplain Spile (540) (ML BA 444	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA 149	JA) A 149A 152C 152D)
J Dark Surface (S7) (LRR P, S, T, U)		(140A, 1030, 103D)
Type:		
Depth (inches):		
amarke:		Hydric Soil Present? Yes No
		- 0 0
	No hai	Soul DARACE
	No more.	se a preser of
	v O	

×. *

wnrh014_u



Upland data point wnrh014_u facing east



Upland data point wnrh014_u facing south

wnrh014 soils



Wetland/upland soils

Project/Site: Atlantic Coast Pipeline		City/County: Northa	ampton	Sampling	Date: <u>3/25/2015</u>
Applicant/Owner: DOMINION			State: NC	Sampling I	Point: wnrc004f_w
Investigator(s):		Section, Township,	Range: No PLSS in thi	s area	
Landform (hillslope, terrace, etc.): Draina	ge Patterns	Local relief (concav	e, convex, none): micro	topography	_ Slope (%): <u>3</u>
Subregion (LRR or MLRA): P	Lat: <u>36.</u>	53597573	Long:77.47063742		Datum: WGS 1984
Soil Map Unit Name: Rains fine sandy loa	am, 0 to 2 percent slopes		NWI cla	ssification: PFO	4A
Are climatic / hydrologic conditions on the	site typical for this time o	f year? Yes 🔽 N	o (If no, explair	n in Remarks.)	
Are Vegetation, Soil, or Hy	ydrology significa	ntly disturbed? A	re "Normal Circumstand	ces" present? Y	es 🖌 No
Are Vegetation, Soil, or Hy	ydrology naturally	problematic? (If needed, explain any a	nswers in Remar	ŕks.)
SUMMARY OF FINDINGS – Att Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ✓ No Yes ✓ No Yes ✓ No Yes ✓ No	ing sampling poir Is the Samp within a We	nt locations, transpoled Area etland? Yes	ects, importa	ant features, etc.
HYDROLOGY	stream was identified wit	hin the wetland as no c	onsistent bed and bank	seemed to exist.	
Wetland Hydrology Indicators:			Secondary I	ndicators (minim	um of two required)
Primary Indicators (minimum of one is re	equired; check all that app	bly)	Surface	Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna	(B13)	Sparsel	y Vegetated Cor	ncave Surface (B8)
 High Water Table (A2) 	Marl Deposits (B15) (LRR U)	🖌 Drainac	e Patterns (B10))

High Water Table (A2)	Marl Deposits (B1	5) (LRR U)	Drainage Patterns (B10)	
 Saturation (A3) 	Hydrogen Sulfide	Odor (C1)	Moss Trim Lines (B16)	
Water Marks (B1)	Oxidized Rhizospł	s (C3) Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Redu	Crayfish Burrows (C8)		
Drift Deposits (B3)	Recent Iron Reduc	ction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface	e (C7)	Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain in F	Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aer	ial Imagery (B7)		✓ FAC-Neutral Test (D5)	
✓ Water-Stained Leaves (B	9)		Sphagnum moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present?	Yes 🖌 No Depth (inches	s): <u>8</u>		
Water Table Present?	Yes 🖌 No Depth (inches	s); 0		
		- /·		
Saturation Present? (includes capillary fringe)	Yes <u>V</u> No <u>Depth</u> (inches	s): 0 Wetlan	d Hydrology Present? Yes 🖌 No	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes <u>V</u> No Depth (inches am gauge, monitoring well, aerial phot	os, previous inspections), if a	d Hydrology Present? Yes <u> /</u> No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes <u>V</u> No Depth (inches	wetlan	d Hydrology Present? Yes _ ✔ _ No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks:	Yes <u>V</u> No Depth (inchest am gauge, monitoring well, aerial phot	(Wetlan et al. (Section 1997) (Wetlan et al. (Section 1997)), if a	d Hydrology Present? Yes <u></u> No <u></u> available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>V</u> No Depth (inches	(in the second s	d Hydrology Present? Yes <u>/</u> No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>/</u> No <u>Depth</u> (inches	s): 0 Wetlan	d Hydrology Present? Yes <u></u> No <u></u> available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>V</u> No Depth (inches	s): 0 Wetlan	d Hydrology Present? Yes _ ✔_ No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>V</u> No Depth (inchestant gauge, monitoring well, aerial phot	Wetlan Wetlan	d Hydrology Present? Yes <u>/</u> No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>V</u> No Depth (inchese eam gauge, monitoring well, aerial phot	Wetlan wetlan wetlan wetlan wetlan wetlan wetlan	d Hydrology Present? Yes <u>/</u> No available:	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: Wetland hydrology present	Yes <u>V</u> No Depth (inchese eam gauge, monitoring well, aerial phot	() <u>0</u> Wetlan ios, previous inspections), if a	d Hydrology Present? Yes <u>/</u> No available:	

Sampling Point: wnrc004f_w

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. Pinus taeda		Yes	FAC	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	25	Yes	FAC	Total Number of Dominant
3. Liquidambar styraciflua	5	No	FAC	Species Across All Strata: 7 (B)
4				
5.				That Are OBL_EACW or EAC ¹ 100 (A/B)
6				
7				Prevalence Index worksheet:
2 2				Total % Cover of: Multiply by:
ő	60	Tatal Car		OBL species $0 \times 1 = 0$
50% 61.1.1	30		12	FACW species 40 x 2 = 80
50% of total cover:	20% of	total cover	·	FAC species $95 \times 3 = 285$
Sapling/Shrub Stratum (Plot size: 15)	05	Vee	FAC	EACLI species $0 \times 4 = 0$
1. Acer rubrum	25	Yes	FAC	$\frac{112}{112} = \frac{112}{112} = $
2. Vaccinium corymbosum	15	Yes	FACW	$\begin{array}{c} \text{OFL species} \\ \text{Orburn Table} \\ \end{array} \begin{array}{c} 135 \\ \text{(A)} \\ \end{array} \begin{array}{c} 365 \\ 365 \\ \text{(P)} \end{array}$
3. Magnolia virginiana	15	Yes	FACW	Column lotais: (A) (B)
4. Ilex opaca	10	No	FAC	Prevalence index = $B/A = 2.7$
5.				
6			·	
7			·	1 - Rapid Test for Hydrophytic Vegetation
· ·				2 - Dominance Test is >50%
8				\checkmark 3 - Prevalence Index is ≤3.0 ¹
	0.5	= Total Cov	er 10	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	2.5 20% of	total cover	13	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	3	Yes	FACW	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
г			·	height.
5				
6			<u> </u>	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 ln. 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.				Weedy vine All weedy vince greater than 2.29 ft in
11.				height
12				
12.	3	- Total Ca		
 1	.5		0.6	
50% of total cover:	20% of	total cover		
Woody Vine Stratum (Plot size: <u>30</u>)	-	Ver		
1. Smilax laurifolia	/	res	FACW	
2				
3				
4.				
5				Underschutig
· · · · · · · · · · · · · · · · · · ·	7	- Total Cov	lor	Hydrophytic Vegetation
50% of total covers 3	5 00% of		1.4	Present? Yes <u>No</u>
	20% 01	total cover		
Remarks: (If observed, list morphological adaptations be	elow).			

SOIL

Profile Desc	ription: (Describe to	o the dept	h needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	Features	5			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 YR 3/1	97	10 YR 3/4	3	С	Μ	FSL	
·					. <u> </u>			
			<u> </u>					
·					·			
		tion DM-	Doduced Metrix, MC	-Maakad	Cand Cr		² L continue	DI-Doro Lining M-Matrix
Type: C=Co	Indiactoral (Application)	etion, Rivi=	Reduced Matrix, MS			ains.	Location:	PL=Pore Lining, M=Matrix.
Hydric Soll	indicators: (Applica	DIE TO AII I	_RRS, unless other	wise note	ea.)		Indicators	for Problematic Hydric Solis :
Histosol	(A1)		Polyvalue Bel	ow Surfac	ce (S8) (L	RR S, T, U) 1 cm M	1uck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Sur	face (S9)	(LRR S,	T, U)	2 cm M	luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky	Mineral ((F1) (LRR	0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			Anoma	lous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P.	T. U)	Redox Dark S	urface (F	6)		(MLR	(A 153B)
<u>5 cm Mu</u>	icky Mineral (A7) (I R	R P. T. U)	Depleted Darl	Surface	(F7)		Red Pa	arent Material (TF2)
O on Muck Pr		,.,.,.,	Beday Depres	ceione (E	(,,,) B)		Very SI	hallow Dark Surface (TE12)
				יו) פווטופפ ווו חר	5)		Very O	Eveloin in Demorke)
		(Mari (F10) (Li	τκ υ)		- 4 \		Explain in Remarks)
	Below Dark Surface	(A11)	Depleted Och	ric (F11)	(MLRA 1	51) 		
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (⊦12) (LRR O, P,	T) [°] Indica	ators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (M I	LRA 150A) 🗹 Umbric Surfac	ce (F13) (LRR P, T	, U)	wetl	land hydrology must be present,
Sandy M	lucky Mineral (S1) (LF	RR O, S)	Delta Ochric (F17) (ML	RA 151)		unle	ess disturbed or problematic.
Sandy G	Bleyed Matrix (S4)		Reduced Vert	ic (F18) (MLRA 15	0A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	ĐA)	
Stripped	Matrix (S6)		Anomalous B	right Loar	nv Soils (I	F20) (MLR/	, 149A, 153C.	. 153D)
Dark Su	rface (S7) (I RR P S	тш		.g.n 200.			,,	,,
Bostrictivo I	aver (if observed):	1, 0)						
	Layer (il observeu).							
Type:								
Depth (ind	ches):						Hydric Soil	Present? Yes Yes No
Remarks:								
Lludria agil pre	aant							
Hydric soli pre	esem							
1								



Photo 1 Wetland data point wnrc004f_w facing north



Photo 2 Wetland data point wnrc004f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: <u>N</u>	lorthampton	Sampling Date: <u>3/25/2015</u>
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc004_u
Investigator(s): Team C	Section, Town	ship, Range: <u>No PLSS in this ar</u>	rea
Landform (hillslope, terrace, etc.): Hill slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): 2
Subregion (LRR or MLRA): P	at: <u>36.53600082</u>	Long: <u>-77.47051686</u>	Datum: WGS 1984
Soil Map Unit Name: Rains fine sandy loam, 0 to 2 percent	slopes	NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrologysi	gnificantly disturbed?	Are "Normal Circumstances'	" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology n	aturally problematic?	(If needed, explain any answ	vers in Remarks.)
		noint locations transat	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🔽 Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No 🖌
Remarks:					

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	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)
Water Marks (B1)	Dxidized Rhizospheres along Living Roots (C	3) Dry-Season Water Table (C2)
Sediment Deposits (B2) F	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) F	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) T	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) C	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? Yes No 🗹	, Depth (inches):	
Water Table Present? Yes No _	, Depth (inches):	
Saturation Present? Yes No _	Depth (inches): Wetlar	nd Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections), if	available:
Remarks:		
No wetland hydrology present		

Sampling Point: <u>wnrc004_u</u>

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. Pinus taeda	50	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				Demonst of Deminant Creation
5				That Are OBL FACW or FAC 83.33333333 (A/B)
6.				
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	50	- Total Cov		OBL species x 1 =0
50% of total across 25	2001/ -4		10	FACW species 15 x 2 = 30
50% of total cover:	20% 01	total cover:		FAC species $60 \times 3 = 180$
Sapling/Shrub Stratum (Plot size: 15)	10	Vee	FACU	FACU species $10 \times 4 = 40$
	10		FACU	$\frac{1}{100} \frac{1}{100} \frac{1}$
2. <u>Ilex opaca</u>	10	Yes	FAC	$\begin{array}{c} \text{Column Tatala} & \begin{array}{c} 85 \\ 85 \\ \end{array} & \begin{array}{c} \text{(A)} \\ 250 \\ \end{array} & \begin{array}{c} 250 \\ \end{array} & \begin{array}{c} \text{(B)} \end{array}$
3. Magnolia virginiana	10	Yes	FACW	Column Totals: (A) (B)
4				Prevalence Index = $B/A = 2.94$
5.				Hydrophytic Vogetation Indicators:
6.				Denid Test for Ludrents tie Venetation
7				
7	······			2 - Dominance Test is >50%
8	30			\checkmark 3 - Prevalence Index is ≤3.0 ¹
15		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	3	Yes	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				
4				Iree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast beight (DBH) regardless of
5				height.
	<u> </u>			
0	. <u> </u>			Sapling/Shrub – Woody plants, excluding vines, less
1				
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.				
	3	= Total Cov	er	
50% of total cover 1.5	20% of	total cover	0.6	
Weedy Vine Stratum (Plot size: 30	20 /0 01			
Smilax laurifolia	2	Yee	FAC.W/	
1		103	1700	
2			<u> </u>	
3				
4				
5				Hydrophytic
	2	= Total Cov	er	Vegetation
50% of total cover: 1	20% of	total cover	0.4	Present? Yes Vo No
Demarke: //f.ebeen/ed_list.mernbelegies.edentations.bele				
Remarks: (If observed, list morphological adaptations beio	w).			

Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the ir	ndicator	or confirm	the absence of indicato	ors.)
Depth	Matrix		Redo	x Features	;			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	7.5 YR 3/1	100					LS	
6-8	10 YR 4/4	100					LS	
8-16	2.5 Y 5/4	100					SL	
								_
¹ Type: C=C	oncentration D=Depl	etion RM=R	educed Matrix MS	S=Masked	Sand Gra	ains	² Location: PL=Pore L	ining M=Matrix
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless other	wise note	ed.)		Indicators for Proble	matic Hydric Soils ³ :
Histosol Histic E _I Black Hi Stratified Organic Granic Gr	(A1) Dipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P, ucky Mineral (A7) (LR resence (A8) (LRR U) uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (M Mucky Mineral (S1) (L Bleyed Matrix (S4) Redox (S5)	T, U) R P, T, U) (A11) LRA 150A) RR O, S)	 Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleyee Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangana Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo 	low Surface rface (S9) y Mineral (d Matrix (F rrix (F3) Surface (F6 k Surface ssions (F8 RR U) nric (F11) (ese Masse ce (F13) (I (F17) (MLI tic (F18) (I odplain Sc	e (S8) (L (LRR S, F1) (LRR F2) 6) (F7) 8) (MLRA 15 LRR P, T RA 151) MLRA 15 pils (F19)	RR S, T, U) T, U) O) LRR O, P, 1 , U) 0A, 150B) (MLRA 149	 1 cm Muck (A9) (I 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Mater Very Shallow Dark Other (Explain in F 3¹Indicators of hydrole unless disturber 	LRR O) (LRR S) (18) (outside MLRA 150A,B) ain Soils (F19) (LRR P, S, T) Loamy Soils (F20) ial (TF2) k Surface (TF12) Remarks) drophytic vegetation and ogy must be present, ed or problematic.
Stripped	Matrix (S6)		Anomalous B	right Loam	ny Soils (I	- 20) (MLR A	149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P, S	T, U)						
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):		<u> </u>				Hydric Soil Present?	Yes No
Remarks:								
No hydric soil	present							



Photo 1 Upland data point wnrc004_u facing north



Photo 2 Upland data point wnrc004_u facing south

Project/Site: Atlantic Coast Pipeline	City/County: Northampton	Sampling Date: 3/25/2015
Applicant/Owner: DOMINION	State: <u>NC</u>	Sampling Point: wnrc005f_w
Investigator(s):	Section, Township, Range: <u>No PLSS in this are</u>	а
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): <u>concave</u>	Slope (%): 2
Subregion (LRR or MLRA): P Lat: 36.535	540608 Long: -77.46681978	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent slopes	NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this time of year Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally pr	ear? Yes <u>V</u> No (If no, explain in R y disturbed? Are "Normal Circumstances" p roblematic? (If needed, explain any answe g sampling point locations, transects	emarks.) present? Yes <u>/</u> No rs in Remarks.) s, important features, etc.
Hydrophytic Vegetation Present? Yes ✔ No Hydric Soil Present? Yes ✔ No Wetland Hydrology Present? Yes ✔ No Remarks: Depression located within a pine plantation drainage way. Some satu were observed in that system. Ves Ves	Is the Sampled Area within a Wetland? Yes	No

HYDROLOGY

Wetland Hydrology Indicato	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; (check all that apply)		Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B 		Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	Roots (C3) (C6)	 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) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes 🖌 No _	Depth (inches): <u>4</u>		
Water Table Present?	Yes 🖌 No _	Depth (inches): 0		
Saturation Present? (includes capillary fringe)	Yes 🖌 No _	Depth (inches):	Wetland H	lydrology Present? Yes <u>/</u> No
Describe Recorded Data (stre	am gauge, monitor	ring well, aerial photos, previous inspe	ctions), if ava	illable:
Remarks:				
Wetland hydrology present				

Sampling Point: <u>wnrc005f_w</u>

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Acer rubrum	65	Yes	FAC	That Are OBL, FACW, or FAC: 1 (A)
2. Pinus taeda	10	No	FAC	
3				Total Number of Dominant
4		<u> </u>		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	75			OBL species $0 x 1 = 0$
37 6		= Total Cove	er 15	$EACW$ species 0 $x^2 = 0$
50% of total cover:	20% of	f total cover:	10	75 $x_2 = 225$
Sapling/Shrub Stratum (Plot size: 15)				FAC species $x_3 = $
1.				FACU species $4 = 0$
2				UPL species $0 \times 5 = 0$
2				Column Totals: 75 (A) 225 (B)
3				()
4				Prevalence Index = B/A =3
5				Hydronhytic Vegetation Indicators:
6.				1. Donid Toot for Underschutte Verstetier
7				1 - Rapid Test for Hydrophytic Vegetation
/				2 - Dominance Test is >50%
8			<u> </u>	\checkmark 3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cove	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 0	20% of	f total cover:	0	
Herb Stratum (Plot size: 5)				1
	10	Vec		Indicators of hydric soil and wetland hydrology must
1. <u>ourox op.</u>		163		be present, unless disturbed of problematic.
2				Definitions of Four Vegetation Strata:
3				Trop Woody plants excluding vince 3 in (7.6 cm) or
4.				more in diameter at breast height (DBH) regardless of
5				height.
5				Ů
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 berbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
10		<u> </u>		Woody vine – All woody vines greater than 3.28 ft in
11		. <u> </u>		height.
12				
	0	= Total Cove	er	
50% of total cover: 5	20% of	f total cover:	2	
	2070.01			
<u>Woody Vine Stratum</u> (Plot size: <u>50</u>)				
1				
2				
3				
4				
5			<u> </u>	Hydrophytic
	0	= Total Cove	er	Vegetation
50% of total cover: 0	20% of	f total cover:	0	Present? Yes <u> </u>
Pomarks: (If observed, list morphological adaptations hold	(AA)			
Remarks. (If observed, list morphological adaptations beid	vv).			

Profile Desc	cription: (Describe t	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the absence of	f indicators.)
Depth	Matrix		Redo	x Features	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	2.5 Y 4/2	100					SL	
5-16	2.5 Y 4/2	95	2.5 Y 5/6	5	С	PL/M	SL	
¹ Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	I Sand Gra	ains.	² Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless other	rwise note	ed.)		Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) (L	RR S, T, U)) 1 cm Mu	uck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su	ırface (S9)) (LRR S ,	T, U)	2 cm Mu	uck (A10) (LRR S)
Black Hi	istic (A3)		Loamy Muck	y Mineral ((F1) (LRR	0)	Reduced	d Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmor	nt Floodplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anomalo	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	⁻ 6)		(MLRA	A 153B)
5 cm Mı	ucky Mineral (A7) (LR	R P, T, U	Depleted Da	rk Surface	(F7)		Red Pare	ent Material (TF2)
Muck Pr	esence (A8) (LRR U))	Redox Depre	essions (F8	8)		Very Sha	allow Dark Surface (TF12)
1 cm Mu	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (E	xplain in Remarks)
Deplete	d Below Dark Surface	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P, 1	T) ³ Indicat	tors of hydrophytic vegetation and
Coast P	rairie Redox (A16) (N	LRA 150	A) Umbric Surfa	ice (F13) ((LRR P, T	, U)	wetla	nd hydrology must be present,
Sandy N	/lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or problematic.
Sandy G	Gleyed Matrix (S4)		Reduced Ver	rtic (F18) (MLRA 15	0A, 150B)		
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	ÐA)	
Stripped	I Matrix (S6)		Anomalous E	Bright Loar	my Soils (I	=20) (MLR	A 149A, 153C, 1	153D)
Dark Su	rface (S7) (LRR P, S	, T, U)						
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil P	Present? Yes 🖌 No
Remarks:								
Hydric soil pre	esent							



Photo 1 Wetland data point wncrc005f_w facing southeast



Photo 2 Wetland data point wncrc005f_w facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: ^N	lorthampton	Sampling Date: <u>3/25/2015</u>
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc005_u
Investigator(s): Team C	Section, Town	ship, Range: <u>No PLSS in this a</u>	rea
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): 2
Subregion (LRR or MLRA): P	Lat: <u>36.53553663</u>	Long: <u>-77.4667393</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent	slopes	NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for th	nis 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 answ	vers in Remarks.)
	a hawing compling	noint locationa trancas	to important factures ato

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✔ Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

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)
Water Marks (B1) Oxidized Rhizospheres along Living F	Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Cravfish 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? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No <u>V</u> Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No Concern Depth (inches): Concern Con	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: No wetland hydrology present	Wetland Hydrology Present? Yes No
Saturation Present? Yes No _ ✓ _ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No

Sampling Point: <u>wnrc005_u</u>

30	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Pinus taeda	60	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Ilex opaca	30	Yes	FAC	Total Number of Dominant
3				Species Across All Strata:4 (B)
4.				
5				Percent of Dominant Species
6				Inat Are OBL, FACW, or FAC: (A/B
0				Prevalence Index worksheet:
/				Total % Cover of Multiply by
8				$\frac{1}{0} \frac{1}{0} \frac{1}$
	90	= Total Cove		
50% of total cover: 45	20% of	total cover:	18	FACW species $\underline{\qquad}$ $x = \underline{\qquad}$
Sapling/Shrub Stratum (Plot size: 15)				FAC species $x^3 = 0$
1 llex opaca	30	Yes	FAC	FACU species $0 \times 4 = 0$
Pinus taeda	15	Yes	FAC	UPL species x 5 =0
2	10	No	FAC	Column Totals: ¹⁴⁵ (A) ⁴³⁵ (B)
	10		TAC	() ()
4				Prevalence Index = B/A = 3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				\checkmark 2 Dominance Test is >50%
8				
0	55			3 - Prevalence index is ≤3.0°
			11	Problematic Hydrophytic Vegetation' (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
4		<u> </u>		more in diameter at breast height (DBH), regardless of
5				neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
0				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	0	= Total Cove	-	
50% of total cover: 0	20% of	total cover	0	
Weadu Vina Strature (Distaire) 30				
<u>vvoody vine Stratum</u> (Piot size:)				
1				
2				
3				
4.				
5				
· · · · · · · · · · · · · · · · · · ·	0			Hydrophytic
			0	Present? Yes V No
50% of total cover:	20% of	total cover:	0	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the ir	ndicator	or confirm	the absence of indicators.)
Depth	Matrix		Redo	x Features	3		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-4	7.5 YR 3/2	100					SL
4-6	2.5 YR 5/4	100		·			L
6-16	2.5 Y 5/6	100		·			L
				·			
. <u> </u>				·			
				·		·	
¹ Type: C=C	oncentration D=Deple	tion RM=R	educed Matrix MS	S=Masked	Sand Gra	ains	² Location: PI =Pore Lining M=Matrix
Hvdric Soil	Indicators: (Applica	ble to all LF	RRs. unless other	wise note	ed.)		Indicators for Problematic Hydric Soils ³ :
Histosol	(Δ1)		Polyvalue Be	low Surfac	(S8) (I	RRSTI	$1) \qquad 1 \text{ cm Muck } (A9) (I \text{ BB } O)$
Histic Fr	vinedon (A2)		Thin Dark Su	rface (S9)		T IN	2 cm Muck (A10) (I BB S)
Black Hi	stic (A3)		Loamy Muck	v Mineral ((EIXICO, (E1) (I RR	0)	Reduced Vertic (E18) (outside MI RA 150A B
Black III	an Sulfide ($\Delta 4$)			d Matrix (F	[1 1) (EIXIX [2]	0)	Piedmont Floodnlain Soils (F19) (I RR P S T)
Nyurogo			Depleted Mat	triv (E3)	2)		Anomalous Bright Loamy Soils (F20)
Organic	Bodies (A6) (I PP P	т н)	Depicted Ma	Surface (El	6)		(MI PA 153B)
Organic	Joules (AO) (LINK F,	и, о <i>ј</i> в в т им	Nedox Dalk		(E7)		Pod Paront Material (TE2)
5 CHI MU		к г, I, U)			(<i>Г1)</i>		Red Faleni Material (TF2)
)		Very Shallow Dark Suiface (TFT2)
	ICK (A9) (LRR P, I) d Delevy Derk Cyrfees	()	Mari (F10) (L	.KK U)		-4)	Other (Explain in Remarks)
Depieted	D Below Dark Surface	(ATT)		111C (F11) () DD O D '	T) 31 a dia atawa a filo alaya ka dia wa asata ti ang ang l
	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (I) Indicators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (I		, U)	wetland hydrology must be present,
Sandy M	lucky Mineral (S1) (L	RR 0, S)	Delta Ochric	(F17) (ML	RA 151)		unless disturbed or problematic.
Sandy G	Gleyed Matrix (S4)		Reduced Ver	tic (F18) (I	MLRA 15	0A, 150B)	
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 149	I9A)
Stripped	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (I	=20) (MLR /	A 149A, 153C, 153D)
Dark Su	rface (S7) (LRR P, S ,	T, U)					
Restrictive I	Layer (if observed):						
Туре:							
Depth (in	ches):						Hydric Soil Present? Yes No
Remarks:							
No hydric soil	present						



Photo 1 Upland data point wnrc005_u facing northwest



Photo 2 Upland data point wnrc005_u facing southeast

Project/Site: Atlantic Coast Pipeline	City/County: Northampton		Sampling Date: 3/26/2015
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc006f_w
Investigator(s): Team C	Section, Township, Range: N	lo PLSS in this are	a
Landform (hillslope, terrace, etc.): Drainage	Local relief (concave, convex	, none): <u>microtopo</u>	graphy Slope (%): 2
Subregion (LRR or MLRA): P La	at: <u>36.53503024</u> Long:	-77.46371129	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent sl	opes	NWI classific	cation: PFO1A
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology si Are Vegetation, Soil, or Hydrology na SUMMARY OF FINDINGS – Attach site map si	time of year? Yes <u>V</u> No gnificantly disturbed? Are "Norma aturally problematic? (If needed, showing sampling point locati	(If no, explain in R al Circumstances" p explain any answe ons, transects	Remarks.) present? Yes <u>/</u> No ers in Remarks.) s, important features, etc.
Hydrophytic Vegetation Present?Yes✓NoHydric Soil Present?Yes✓NoWetland Hydrology Present?Yes✓No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: PFO wetland located within a natural drainage system. Veg	etation is primarily growing on hummock	ts through out the v	wetland.
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)

<u>required)</u>	Secondary indicators (minimum of two rec				wettand frydrology maleat		
	Surface Soil Cracks (B6)	that apply)	; check all that apply)	of one is required	Primary Indicators (minimum		
ace (B8)	Sparsely Vegetated Concave Surface	✓ Surface Water (A1) ✓ Aquatic Fauna (B13)					
	 Drainage Patterns (B10) 	✓ High Water Table (A2) Marl Deposits (B15) (LRR U)					
	Moss Trim Lines (B16)	✓ Saturation (A3)					
	Dry-Season Water Table (C2)	Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3)					
	Crayfish Burrows (C8)	Sediment Deposits (B2) Presence of Reduced Iron (C4)					
y (C9)	Saturation Visible on Aerial Imagery (Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)					
	 Geomorphic Position (D2) 	Algal Mat or Crust (B4) Thin Muck Surface (C7)					
	Shallow Aquitard (D3)	Explain in Remarks)	Other (Explain in F	_	Iron Deposits (B5)		
	 FAC-Neutral Test (D5) 			rial Imagery (B7)	Inundation Visible on Ae		
	Sphagnum moss (D8) (LRR T, U)			B9)	Water-Stained Leaves (B		
					Field Observations:		
		epth (inches): <u>3</u>	Depth (inches	Yes 🖌 No	Surface Water Present?		
		0		Yes 🖌 No	Water Table Present?		
		epth (inches):	Depth (inches	100 110			
>	Hydrology Present? Yes 🖌 No _	epth (inches): 0 Wetland	Depth (inches	Yes <u>V</u> No	Saturation Present?		
>	Hydrology Present? Yes <u>/</u> No	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches	Yes <u></u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str		
>	I Hydrology Present? Yes <u></u>No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>Yes</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str		
>	I Hydrology Present? Yes _ ✔_ No _ vailable:	epth (inches): 0 Wetland epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches pring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str		
)	Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland bydrology		
>	Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
>	Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
> <u></u>	I Hydrology Present? Yes <u>✓</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u></u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
> <u></u>	I Hydrology Present? Yes <u> </u>	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
·	I Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
>	I Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): <u>0</u> wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
>	I Hydrology Present? Yes <u>V</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
>	I Hydrology Present? Yes <u>V</u> No vailable:	epth (inches): <u>0</u> wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u>r</u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
2 <u></u>	I Hydrology Present? Yes <u>V</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches	Yes <u></u> No ream gauge, monit	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
°	I Hydrology Present? Yes <u>Y</u> No vailable:	epth (inches): 0 Wetland aerial photos, previous inspections), if av	Depth (inches	Yes <u></u> No ream gauge, monito	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
°	I Hydrology Present? Yes <u>V</u> No vailable:	epth (inches): <u>0</u> wetland aerial photos, previous inspections), if av	Depth (inches Depth (inches oring well, aerial phot	Yes <u></u> No	Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks: Wwtland hydrology		
ıсе (у (С	 Sparsely Vegetated Concave Surface Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) 	c Fauna (B13) eposits (B15) (LRR U) en Sulfide Odor (C1) ed Rhizospheres along Living Roots (C3) ce of Reduced Iron (C4) : Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	 Aquatic Fauna (B1 Marl Deposits (B1) Hydrogen Sulfide (Oxidized Rhizosph Presence of Redu Recent Iron Redud Thin Muck Surface Other (Explain in F 	rial Imagery (B7) B9)	 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (I Field Observations:		

Sampling Point: wnrc006f_w

30	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
	30	Vee		That Are OBL, FACW, or FAC:	(A)
2. Acer rubrum		Tes	FAC	Total Number of Dominant	
3. Philos taeda	15	NO	FAC	Species Across All Strata:6	(B)
4	. <u> </u>			Percent of Dominant Species	
5	·			That Are OBL, FACW, or FAC: 83.33333333	(A/B)
6			<u> </u>	Brovelence Index worksheet	
7					
8				$\begin{array}{c c} \hline 10tal \% \text{ Cover ol.} \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 0 \hline \hline 0 \\ \hline 0 \hline \hline 0 \\ \hline 0 \hline \hline$	-
	80	= Total Cov	er	OBL species 72 $x_1 = 144$	-
50% of total cover:40	20% of	total cover:	16	FACW species $x 2 = \frac{100}{180}$	-
Sapling/Shrub Stratum (Plot size: 15)				FAC species $x 3 = 0$	-
1. Ilex opaca	15	Yes	FAC	FACU species $x = 0$	-
2. Magnolia virginiana	7	Yes	FACW	UPL species 0 $x 5 = 0$	-
3.				Column Totals: (A)	(B)
4.				Dravalance index $= D/4 = -2.45$	
5				Prevalence muex = B/A =	-
6				nyaropnytic vegetation indicators:	
7			·	1 - Rapid Test for Hydrophytic Vegetation	
0				2 - Dominance Test is >50%	
0	22	- Total Cav		3 - Prevalence Index is ≤3.0 ¹	
500 (a f ta			er 44	Problematic Hydrophytic Vegetation ¹ (Explain	ו)
50% of total cover:	20% of	total cover:			
Herb Stratum (Plot size:)	25	Vee		¹ Indicators of hydric soil and wetland hydrology m	ust
1. Arunumana gigantea	20	res	FACW	be present, unless disturbed or problematic.	
2. Sphagnum sp.	10	Yes		Definitions of Four Vegetation Strata:	
3. Carex grayi	5	NO	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 c	m) or
4			<u> </u>	more in diameter at breast height (DBH), regardle	ess 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, regard	dless
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine $-$ All woody vines greater than 3.28 t	ft in
11				height.	
12					
	30	= Total Cov	er		
50% of total cover: ²⁰	20% of	total cover:	8		
Woody Vine Stratum (Plot size: 30)					
1					
2					
3			·		
а					
+			·		
5		Tatal Oas		Hydrophytic	
		= Total Cov	er 0	Present? Yes V No	
50% of total cover:	20% of	total cover:			
Remarks: (If observed, list morphological adaptations below	w).				

SOIL

Profile Desc	ription: (Describe to	o the dep	h needed to docun	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Features	5			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	2.5 Y 3/2	98	2.5 Y 3/3	2	С	PL	SIL	faint redox. Mucky mineral
				·				· · · · · · · · · · · · · · · · · · ·
				·				·
				·				
				·				
¹ Type: C=Ce	oncentration, D=Deple	tion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless other	wise note	ed.)		Indicators	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) (I	RRSTU) 1 cm l	Muck (A9) (I RR O)
Histic Fr	ninedon (A2)		Thin Dark Su	rface (S9)		т II)	2 cm l	Muck (A10) (I RR S)
Black Hi	stic (A3)		✓ Loamy Mucky	v Mineral ((F1) (I RR	20)	Reduc	ced Vertic (F18) (outside MI RA 150A B)
Hydroge	en Sulfide (A4)		Loamy Gleve	d Matrix ((* *) (_ **** F2)	,	Piedm	nont Floodplain Soils (F19) (I RR P. S. T)
Stratified	1 avers (A5)		Depleted Mat	trix (F3))		Anom	alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (I RR P	тт	Bedox Dark S	Surface (F	6)		<u> </u>	RA 153B)
Organie 5 cm Mi	icky Mineral (A7) (I RI	,,,,, ,рт II\	Depleted Dar	k Surface	(F7)		Red P	Parent Material (TE2)
O un Muck Pr		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Depicted Dar	R Ourrace	(i /) B)		Verv 9	Shallow Dark Surface (TE12)
			Marl (E10) /		5)		Very C	(Evolution in Romarks)
T chi Mc	d Below Dark Surface	(Δ11)		ric (E11)	(MI PA 1)	51)		
Depleted	ark Surface (A12)	(,,,,)			(F12) (T) ³ Indi	cators of hydrophytic vegetation and
	rairia Paday (A16) (M	DA 150/	Limbric Surfa	00 (E13) (stland hydrology must be present
Coast I	Aucky Minoral (S1) (III		Dolta Ochric	(E17) (MI	DA 151)	, 0)	we	loss disturbed or problematic
Sandy (Nucky Milleral (31) (Li	xx 0, 3)	Deita Ochinc	(I I I I) (IVIL tio (E19) (0A 1E0D)	un	less disturbed of problematic.
Sandy C			Reduced ver			UA, 130D)		
Saliuy P	Motrix (SC)			vight Loon			9A) N 4 40 A 4530	4620)
Suipped		T 11	Anomaious B	ngni Loan	ny Solis (I		A 149A, 153C	J, 153D)
Dark Su	(11ace (57) (LKK P, 5,	1, 0)					1	
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soi	I Present? Yes No No
Remarks:								
Hvdric soil pre	esent							
,								



Photo 1 Wetland data point wnrc006f_w facing east



Photo 2 Wetland data point wnrc006f_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: N	lorthampton	_ Sampling Date: 3/26/2015
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc006_u
Investigator(s): Team C	Section, Town	ship, Range: <u>No PLSS in this a</u>	rea
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	ncave, convex, none): <u>none</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): P	Lat: <u>36.5351216</u>	Long: <u>-77.46417878</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percen	t slopes	NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for t	his 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 answ	vers in Remarks.)
SUMMARY OF EINDINGS Attach site may	a chowing compling	naint leastions transport	important factures ato

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✔ Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

HYDROLOGY

Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)	Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aei Water-Stained Leaves (E 	rial Imagery (B7)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	
Field Observations:	-		
Surface Water Present?	Yes No _	✓ Depth (inches):	_
Water Table Present?	Yes No _	Depth (inches):	_
Saturation Present? (includes capillary fringe)	Yes No _	✓ Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stre	eam gauge, monito	ring well, aerial photos, previous inspec	ections), if available:
No wetland hydrology present	t		

Sampling Point: <u>wnrc006_u</u>

20	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	65	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Quercus nigra	10	No	FAC	
3 Liquidambar styraciflua	10	No	FAC	I otal Number of Dominant
				Species Across Air Strata. (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	85	- Total Cava		OBL species x 1 =0
42.5			17	FACW species $40 \times 2 = 80$
50% of total cover:	20% of	total cover:		$\frac{95}{285}$
Sapling/Shrub Stratum (Plot size: 15)				
1. Ilex opaca	10	Yes	FAC	FACU species $x_4 = 0$
2.				UPL species $x 5 = 0$
3				Column Totals:135 (A)365 (B)
5				
4				Prevalence Index = B/A = 2.7
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				\checkmark 2 - Dominance Toet is >50%
8				
0	10			Y 3 - Prevalence Index is ≤3.0 ⁺
5		= Total Cover	ว	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover:	Z	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Arundinaria gigantea	40	Yes	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata
2				Deminions of Four Vegetation of ata.
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.
0				
0				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	40			
20			8	
	20% 01	total cover:		
Woody Vine Stratum (Plot size: 30)				
1				
2				
3				
	·		,	
4				
5				Hydrophytic
	0	= Total Cover		Vegetation
50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No</u>
Remarks: (If observed, list morphological adaptations belo	w/)			
	vv).			

<u>(inches)</u> 0-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color (moist) % 0 YR 5/2 50 0 YR 4/2 50	Colo	≥d Matrix, M Juless othe Polyvalue Be Fhin Dark St	S=Maskec	<u>Type</u> ¹	Loc ²	LS 	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
0-16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 YR 5/2 50 0 YR 4/2 50) 	ad Matrix, M Jaless othe Polyvalue Be Fhin Dark St	S=Maskec rwise note	d Sand Gra ed.) cce (S8) (L		LS LS _	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	0 YR 4/2 50 Centration, D=Depletion, 1 licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce	<u>ed Matrix, M</u> Inless othe Polyvalue Be Γhin Dark St	S=Maskec rwise noto	<u>d Sand Gra</u> ed.) ce (S8) (L		LS 	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, I licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce	ed Matrix, M Inless othe Polyvalue Be Fhin Dark Si	S=Maskec rwise not	d Sand Gra ed.) ce (S8) (L	 ains. RR S, T, U		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, I licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce	ed Matrix, M Inless othe Polyvalue Be Fhin Dark Si	S=Maskec rwise noto	d Sand Gra ed.) ce (S8) (L	 ains. RR S, T, U		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, I licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce	<u>ed Matrix, M</u> Inless othe Polyvalue Be Fhin Dark Su	S=Maskec rwise noto	<u>d Sand Gra</u> ed.) ce (S8) (L	 ains. RR S, T, U	² Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, l licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce o all LRRs, t F 7	ed Matrix, M Inless othe Polyvalue Be Fhin Dark St	S=Maskec rwise not elow Surfa	d Sand Gra ed.) ce (S8) (L	ains. RR S, T, U	² Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A Histic Epipe Black Histic	centration, D=Depletion, l licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce o all LRRs, t F 7	ed Matrix, M Inless othe Polyvalue Be Fhin Dark St	S=Maskeo	d Sand Gra ed.) ce (S8) (L	ains. RR S, T, U	² Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, I licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce all LRRs, u F 7	ed Matrix, M Inless othe Polyvalue Be Thin Dark St	S=Masked rwise not	d Sand Gra ed.) ce (S8) (L	ains. RR S, T, U	² Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
¹ Type: C=Conc Hydric Soil Ind Histosol (A' Histic Epipe Black Histic	centration, D=Depletion, I licators: (Applicable to 1) edon (A2) c (A3)	RM=Reduce all LRRs, u F 7	ed Matrix, M Juless othe Polyvalue Be Thin Dark St	S=Maskec rwise not elow Surfa	d <u>Sand Gra</u> ed.) ce (S8) (L	ains. RR S, T, U	² Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Hydric Soil Ind Histosol (A Histic Epipe Black Histic	licators: (Applicable to 1) edon (A2) c (A3)	o all LRRs, נ F ٦	unless othe Polyvalue Be Thin Dark Su	elow Surfa	ed.) ce (S8) (L	RR S, T, U	Indicators) 1 cm N	for Problematic Hydric Soils ³ :
Histosol (A Histic Epipe Black Histic	1) edon (A2) c (A3)		Polyvalue Be Thin Dark Su	elow Surfa	ce (S8) (L	RR S, T, U) 1 cm M	
Histic Epipe Black Histic	edon (A2) c (A3)	ר ז ו	Thin Dark Su	urfana (SO)				
Black Histic	c (A3)	L L		unace (39)) (LRR 5,	T, U)	2 cm N	luck (A10) (LRR S)
			_oamy Muck	ky Mineral	(F1) (LRR	0)	Reduce	ed Vertic (F18) (outside MLRA 150A
Hydrogen S	Sulfide (A4)	l	_oamy Gley	ed Matrix ((F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S,
Stratified La	ayers (A5)	[Depleted Ma	atrix (F3)			Anoma	llous Bright Loamy Soils (F20)
Organic Bo	odies (A6) (LRR P, T, U)	F	Redox Dark	Surface (F	-6)		(MLF	RA 153B)
5 cm Mucky	y Mineral (A7) (LRR P, T	r, U) [Depleted Da	rk Surface	e (F7)		Red Pa	arent Material (TF2)
Muck Prese	ence (A8) (LRR U)	F	Redox Depr	essions (F	8)		Very S	hallow Dark Surface (TF12)
1 cm Muck	(A9) (LRR P, T)	١	Marl (F10) (I	LRR U)			Other (Explain in Remarks)
Depleted B	elow Dark Surface (A11)) [Depleted Oc	hric (F11)	(MLRA 1	51)	2	
Thick Dark	Surface (A12)	I	ron-Mangar	nese Mass	es (F12) (LRR O, P,	T) [°] Indic	ators of hydrophytic vegetation and
Coast Prair	rie Redox (A16) (MLRA 1	150A) ເ	Jmbric Surfa	ace (F13) ((LRR P, T	, U)	wet	land hydrology must be present,
Sandy Muc	ky Mineral (S1) (LRR O,	, S) [Jelta Ochric	: (F17) (ML	.RA 151)		unle	ess disturbed or problematic.
Sandy Gley	yed Matrix (S4)	F	Reduced Ve	rtic (F18) ((MLRA 15	0A, 150B)		
Sandy Red	lox (S5)	F	Piedmont Flo	oodplain S	ioils (F19)	(MLRA 14	9A)	
Stripped Ma	atrix (S6)	/	Anomalous I	Bright Loai	my Soils (I	=20) (MLR /	A 149A, 153C,	, 153D)
Dark Surface	ce (S7) (LRR P, S, T, U)							
Restrictive Lay	yer (if observed):							
Туре:								
Depth (inche	es):						Hydric Soil	Present? Yes No
Remarks:								
lo hydric soil pre	esent							



Photo 1 Upland data point wnrc006_u facing northeast



Photo 2 Upland data point wnrc006_u facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: N	orthampton	Sampling Date: <u>3/26/2015</u>
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc007f_w
Investigator(s):	Section, Towns	ship, Range: <u>No PLSS in this a</u>	area
Landform (hillslope, terrace, etc.): Drainage	Local relief (co	ncave, convex, none): <u>none</u>	Slope (%): 2
Subregion (LRR or MLRA): P	Lat: <u>36.53391723</u>	Long: <u>-77.45717668</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 6 to 12	percent slopes	NWI class	ification: None
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes	_ No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances	s" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling p	point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>/</u> No Yes <u>/</u> No Yes <u>/</u> No	Is the Sampled Area within a Wetland? Yes _ ✔ No
Remarks:		

HYDROLOGY

Wetland Hydrology Indicato	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of	of one is required;	check all that apply)		Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Water-Stained Leaves (B 	ial Imagery (B7)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	Roots (C3) (C6)	 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) ✓ Geomorphic Position (D2) Shallow Aquitard (D3) ✓ FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes 🖌 No	Depth (inches): <u>3</u>		
Water Table Present?	Yes 🖌 No	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes 🖌 No	Depth (inches): 0	Wetland H	-lydrology Present? Yes 🖌 No
Describe Recorded Data (stre	am gauge, monito	ring well, aerial photos, previous inspe	ctions), if ava	ailable:
Remarks:				
Wetland hydrology present				

Sampling Point: wnrc007f_w

20	Absolute	Dominant	Indicator	Dominance Test worksheet:								
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Number of Dominant Species								
1. <u>Acer rubrum</u>	25	Yes	FAC	That Are OBL, FACW, or FAC: 7 (A)								
2. Quercus phellos	15	Yes	FACW	Total Number of Dominant								
3. Carpinus caroliniana	10	No	FAC	Species Across All Strata: 8 (B)								
4. Platanus occidentalis	10	No	FACW									
5.				Percent of Dominant Species								
6			·									
7				Prevalence Index worksheet:								
0				Total % Cover of: Multiply by:								
ő	60	Tatal Oa		OBL species $0 x 1 = 0$								
30			er 12	FACW species 50 x 2 = 100								
50% of total cover:	20% of	total cover		EAC species $50 \times 3 = 150$								
Sapling/Shrub Stratum (Plot size: 15)	10	N	540	$\frac{5}{5} \times 4 = \frac{20}{20}$								
1. Carpinus caroliniana	10	Yes	FAC	$\frac{1}{10} \text{ species} \qquad 0 \qquad x = 0$								
2. Platanus occidentalis	10	Yes	FACW	$105 \times 105 $								
3. Liquidambar styraciflua	5	Yes	FAC	Column Totals: (A) (B)								
4				Prevalence Index = $B/A = 2.57$								
5.				Hydrophytic Vogetation Indicators:								
6				A Denid Test for Undershutic Venetation								
7												
o				2 - Dominance Test is >50%								
0	25	- Total Car		<u>v</u> 3 - Prevalence Index is ≤3.0'								
			er 5	Problematic Hydrophytic Vegetation ¹ (Explain)								
50% of total cover:	20% of	total cover										
Herb Stratum (Plot size:)	40		F A O M	¹ Indicators of hydric soil and wetland hydrology must								
1. Panicum dichotomitiorum	10	Yes	FACW	be present, unless disturbed or problematic.								
2. Lonicera japonica	5	Yes	FACU	Definitions of Four Vegetation Strata:								
3. Carex grayi	5	Yes	FACW	Tree – Woody plants, excluding vines 3 in (7.6 cm) or								
4				_ more in diameter at breast height (DBH), regardless of								
5.				height.								
6.				Sanling/Shrub - Woody plants, excluding vines, less								
7	·		·	than 3 in. DBH and greater than 3.28 ft (1 m) tall.								
8												
0				Herb – All herbaceous (non-woody) plants, regardless								
9			·									
10				Woody vine – All woody vines greater than 3.28 ft in								
11				height.								
12												
	20	= Total Cov	er									
50% of total cover:10	20% of	total cover	4									
Woody Vine Stratum (Plot size:30)												
1.												
2												
3												
3												
4												
5				Hydrophytic								
	0	= Total Cov	er	Vegetation Present? Ves V								
50% of total cover:0	20% of	total cover	0									
Remarks: (If observed, list morphological adaptations below).												

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	10 YR 4/2	100					L			
3-16	10 YR 4/2	97	10 YR 5/4	3	С	PL	L			
<u> </u>										
¹ Type: C=Co	ncentration. D=Deple	etion. RM=	Reduced Matrix. MS	=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix,		
Hydric Soil I	ndicators: (Applica	ble to all	LRRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Bel	ow Surfac	ce (S8) (L	.RR S, T, U)	1 cm M	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Thin Dark Su	face (S9)	(LRR S,	T, U)	2 cm M	Muck (A10) (LRR S)		
Black His	ack Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B)									
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedm	ont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		 Depleted Mat 	rix (F3)			Anoma	alous 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) Other (Explain in Remarks)										
Depleted	rk Surface (A12)	(ATT)	Iron-Mangane		(IVIERA 1) 28 (F12) () ³ India	cators of hydrophytic vegetation and		
Coast Pr	airie Redox (A16) (M	I RA 1504	Umbric Surfa	ce (F13) (LI(((0, 1 , 1 U)	y mai	tland hydrology must be present		
Sandy M	ucky Mineral (S1) (L	RR 0. S)	Delta Ochric ((F17) (ML	RA 151)	, 0)	unless disturbed or problematic.			
Sandy G	leved Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A. 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)			
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)										
Dark Sur	face (S7) (LRR P, S ,	T, U)								
Restrictive L	ayer (if observed):									
Туре:										
Depth (inc	hes):						Hydric Soil	Present? Yes 🥙 No		
Remarks:										
Hydric soil pre	sent									


Photo 1 Wetland data point wnrc007f_w facing east



Photo 2 Wetland data point wnrc007f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: N	lorthampton	Sampling Date: 3/26/2015
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc007_u
Investigator(s): Team C	Section, Town	ship, Range: <u>No PLSS in this a</u>	rea
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): P	at: <u>36.53404039</u>	Long: <u>-77.45728533</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 6 to 12 percent	slopes	NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes _	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrologysi	gnificantly disturbed?	Are "Normal Circumstances"	" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology na	aturally problematic?	(If needed, explain any answ	vers in Remarks.)
		noint locations transat	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

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)
Water Marks (B1) Oxidized Rhizospheres along Living F	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? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
	Watland Hudralamy Present? Yes No.
Saturation Present? Yes No Ver Depth (inches): (includes capillary fringe)	wetland Hydrology Present? res No
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	ctions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	ctions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	ctions), if available:
Saturation Present? Yes <u>No</u> Depth (inches): <u>(includes capillary fringe)</u> Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	ctions), if available:

Sampling Point: <u>wnrc007_u</u>

30	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Liquidambar styracifiua	15	Yes	FAC	That Are OBL, FACW, or FAC:6 (A)
2. <u>Acer rubrum</u>	15	Yes	FAC	Total Number of Dominant
3. Quercus alba	15	Yes	FACU	Species Across All Strata: 7 (B)
4				Percent of Deminant Species
5				That Are OBL, FACW, or FAC: 85.71428571 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	45	= Total Cove	er	OBL species $0 x 1 = 0$
50% of total cover: 22.5	20% of	total cover:	9	FACW species $\begin{array}{c} 0 \\ \hline 85 \end{array}$ x 2 = $\begin{array}{c} 0 \\ \hline 255 \end{array}$
Sapling/Shrub Stratum (Plot size: 15)				FAC species $33 \times 3 = 233$
1 llex opaca	20	Yes	FAC	FACU species 15 x 4 = 60
2 Acer rubrum	10	Yes	FAC	UPL species $0 \times 5 = 0$
2. Liquidambar styraciflua	10	Yes	FAC	Column Totals:100 (A)315 (B)
+				Prevalence Index = B/A =
J			<u> </u>	Hydrophytic Vegetation Indicators:
6		<u> </u>		1 - Rapid Test for Hydrophytic Vegetation
/				2 - Dominance Test is >50%
8		· ·	<u> </u>	3 - Prevalence Index is ≤3.0 ¹
20	40	= Total Cove	er Q	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover:	0	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Smilax rotundifolia	15	Yes	FAC	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 berbassous (non weady) planta, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10		· ·		
11				Woody vine – All woody vines greater than 3.28 ft in height
12	······································	······································		noight.
12.	15	- Total Cove		
50% of total cover 7.5	20% 0	total covor:	3	
Weeder Vine Strature (Plat size: 30	20% 01		<u> </u>	
Woody vine Stratum (Plot size:)				
1				
2				
3		· ·	<u> </u>	
4				
5			<u> </u>	Hydrophytic
	0	= Total Cove	er	Vegetation Present? Ves V
50% of total cover:0	20% of	total cover:	0	
Remarks: (If observed, list morphological adaptations belo	w).			·

Profile Desc	ription: (Describe to	o the depth	needed to docum	nent the in	ndicator	or confirm	the absence o	f indicato	rs.)		
Depth	Matrix		Redox	Features	6						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-8	2.5 Y 3/2	100					S				
8-16	2.5 Y 6/3	100					S				
¹ Type: C=Ce	oncentration, D=Deple	tion, RM=R	educed Matrix, MS	=Masked	Sand Gra	ains.	² Location: F	PL=Pore Li	ning, M=Matrix	ι.	
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless other	wise note	ed.)		Indicators for	or Problen	natic Hydric S	oils ³ :	
Histosol	(A1)		Polyvalue Bel	ow Surfac	ce (S8) (L	RR S, T, U)) 1 cm Mu	ick (A9) (L	RR O)		
Histic Ep	Dipedon (A2)		Thin Dark Su	face (S9)	(LRR S,	T, U)	2 cm Mu	ick (A10) (
Black Hi	stic (A3)		Loamy Mucky	Mineral (⊢1) (LRR	0)	Reduced	d Vertic (F	18) (outside M	LRA 1504	4,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (I	-2)		Piedmor	nt Floodpla	in Soils (F19)	LRR P, S	, T)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)			Anomalo	ous Bright I	Loamy Soils (F	20)	
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F	6)		(MLRA	A 153B)			
5 cm Mu	icky Mineral (A7) (LRI	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Par	ent Materia	al (TF2)		
Muck Pr	esence (A8) (LRR U)		Redox Depre	ssions (F8	3)		Very Sha	allow Dark	Surface (TF12	<u>?</u>)	
1 cm Mu	ıck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (E	xplain in R	Remarks)		
Depleted	d Below Dark Surface	(A11)	Depleted Och	ric (F11) (MLRA 1	51)		•	,		
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) (I	LRR O, P, 1	T) ³ Indicat	tors of hyd	rophytic vegeta	ation and	
Coast P	rairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (I	LRR P, T	, U)	wetla	nd hydrolo	ogy must be pre	esent,	
Sandy M	lucky Mineral (S1) (Ll	RR O, S)	Delta Ochric	F17) (ML	RA 151)		unles	s disturbed	d or problemati	ic.	
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (I	MLRA 15	0A, 150B)					
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 149	9A)				
Stripped	Matrix (S6)		Anomalous B	, right Loan	nv Soils (I	=20) (MLR/	, 149A, 153C, 1	153D)			
Dark Su	rface (S7) (LRR P. S.	T. U)			.,			,			
Restrictive	Layer (if observed):	, -,									
Type:	,										
Depth (in	ches):						Hydric Soil P	resent?	Yes	No 🖌	
Remarks:							-				
No hydric soil	present										



Photo 1 Upland data point wnrc007_u facing northeast



Photo 2 Upland data point wnrc007_u facing southwest

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Project/Site: ACP	City/County: Northampton_Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC_ Sampling Point: Which 003f_W
Investigator(s): FSI (Ruper, TU(nbull)	_ Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): <u>CONLAVE</u> Slope (%): <u>2-5</u>
Subregion (LRR or MLRA): <u>LLLD</u> Lat: <u>310</u> .	53240 Long: - 77, 44621 Datum: W(584
Soil Map Unit Name: Bonneau Joanu Sand. D-	6% Slopes NWI classification: PFD
Are climatic / hydrologic conditions on the site typical for this time of	vear? Yes No. (If no. explain in Remarks.)
Are Vegetation Soil or Hydrology significantl	
Are Veretation Soil or Hydrology naturally o	violamente (If needed, evolution any answers in Remarks)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes Yes	- Is the Sampled Area - within a Wetland? Yes <u>No</u>
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)	313) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	15) (LRR U)
L Saturation (A3)	e Odor (C1) Moss Trim Lines (B16)
U Sediment Density (D0)	oheres along Living Roots (C3)
Drift Denosits (B3)	uced Iron (C4) Craytish Burrows (C8)
Algal Mat or Crust (B4)	ce (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks)
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 (inche	es): <u>NH</u>
Water Table Present? Yes <u>V</u> No Depth (inche	
(includes capillary fringe)	es): <u>Sur +a re</u> Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

Sampling Point: Whrp003f-w

Tree Charter (Distained GDC) 17 DC	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>OUPP x COT</u>)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Liviudenarun TUTipitera	10	<u> </u>	<u>FRC</u>	That Are OBL, FACW, or FAC:O (A)
2. <u>Liex opaca</u>	10	<u> </u>	<u>FMC</u>	Total Number of Dominant
3. <u>Aler rubrum</u>	<u> 15 </u>	<u></u>	<u>FAC</u>	Species Across Ali Strata: (B)
4		. <u> </u>		Percent of Dominant Spacing
5				That Are OBL, FACW, or FAC: 100 (A/B)
6		<u></u>		((
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	40	= Total Cov	/er	OBL species x 1 =
50% of total cover: 20) 20% of	f total cover	ั 8	FACW species x 2 =
Sanling/Shrub Stratum (Blot size: 50 \pm x? (2 \pm)			·	FAC species x 3 =
1 TIPY DOWN	15	Y	EHA	FACU species x 4 =
2 biguston taliatera	27		EAC.	UPL species x 5 =
2 GOSTION TOTTOTEXTR	-20	-+	<u><u> </u></u>	Column Totals: (A) (B)
3. ALET PINTUIN	_20	<u> </u>	FHU	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\square 3 - Prevalence Index is <3.0 ³
	55	= Total Cov	ver	Drohlamatic Hudson dia Vasatatian1 (Turniain)
50% of total cover: 27	5 20% 0	f total cover	- 11	
Herh Stratum (Plot size: 50 ftx70ft)			· <u> </u>	
1 Bethysium aspleniaides	10	V	Chr.	Indicators of hydric soil and wetland hydrology must
		·!	<u>r prv</u>	De present, unless distarbed of 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				neight.
6		- <u>-</u>		Sapling/Shrub - Woody plants, excluding vines, less
7			-	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All berbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
11.				Woody vine – All woody vines greater than 3.28 ft in beight
12		·····		noight.
· · · ·	10			
50% -6444 5		_ = 10idi 00		
	20% 0	of total cove	r: <u> </u>	
Voody Vine Stratum (Plot size: 70++ x (0++)		M	Enn	
1. <u>Sm. lax mrunaimila</u>		- <u> </u>	- ETC	
2. Vitis cottingitoria	-10	<u> </u>	<u>FHC</u>	
3. LONITERA JADONTLA	10	<u> </u>	<u>PHC</u>	
4				
5			_	Hydrophytic
	35	= Total Co	over	Vegetation
50% of total cover:	5 20%	- of total cove	r .7	Present? Yes No No
Remarks: (If observed list morphological adaptations be				
Remember (in observed, list morphological adaptations be	10447.			

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SOIL

Sampling Point: ______

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Re	dox Features					
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks	
10-5	104Kolz	100		<u> </u>		. <u> </u>	<u></u>		
5-12	2.54 4/2	95	10125/1.	5		M	SL		
12-20	7.5441	95	10 12 51		C	M	56	<u></u>	
			1-1-19	_		<u>```</u>			
			· · · · · · · ·			·			
							·		
¹ Type: C=C	oncentration. D=Der	letion. RM=R	Reduced Matrix.	MS=Masked	Sand Gr	ains.	² l ocation: PI =E	Pore Lining M=Matrix	
Hydric Scil	Indicators: (Applic	able to all Li	RRs, unless ot	nerwise note	ed.)		Indicators for P	roblematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue	Below Surfac	ce (S8) (L	.RR S. T. UI		(A9) (LBB O)	
Histic E	pipedon (A2)		Thin Dark	Surface (S9)	(LRR S,	T, U)	2 cm Muck ((A10) (LRR S)	
Black H	istic (A3)		🔲 Loamy Mu	icky Mineral ((F1) (LRF	10)	Reduced Ve	ertic (F18) (outside MLRA 150A,B)	
Hydroge	en Sulfide (A4)		Loamy Gle	eyed Matrix (I	F2)		Piedmont Fl	loodplain Soils (F19) (LRR P, S, T)	
Stratifie	d Layers (A5)		Depleted I	Matrix (F3)			L Anomalous	Bright Loamy Soils (F20)	
Organic	Bodies (A6) (LRR F	P, T, U)		rk Surface (F	6)			53B)	
	ICKY WINERAL (A7) (L.	RR P, I, U}		Jark Surface	(F7) ⊳\		Red Parent	Material (TF2)	
	ick (A9) (I RR P T)			Pressions (Fo	o)			w Dark Sunace (1F12)	
Deplete	d Below Dark Surfac	ce (A11)		Ochric (F11)	(MLRA 1	51)			
Thick D	ark Surface (A12)		Iron-Mang	anese Mass	es (F12) (LRR O, P, '	T) ³ Indicators	of hydrophytic vegetation and	
Coast P	rairie Redox (A16) (MLRA 150A)	Umbric Su	urface (F13) (LRR P, T	, U)	wetland	hydrology must be present,	
Sandy N	Mucky Mineral (S1) (LRR O, S)	Delta Och	ric (F17) (ML	.RA 151)		unless d	isturbed or problematic.	
Sandy (Gleyed Matrix (S4)		Reduced	Vertic (F18) (MLRA 1	50A, 150B)			
Sandy F	Redox (S5)		Piedmont	Floodplain S	oils (F19)	(MLRA 14	9A)		
	11/13(11X (30)	ст II)		is Bright Loar	my Solis (F20) (MER/	A 149A, 153C, 153	0)	
Restrictive	aver (if observed)	<u>, , , , , , , , , , , , , , , , , , , </u>					1		
Type		,.							
Depth (in	ches):						Undaia Call Daa		
Deptii (ii							Hydric Soli Pres		
Remarks:									
1									
1									

Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp003f_w facing south.

Project/Site: ACP City	County: Northam Ston Sampling Date: 417/15
Applicant/Owner: Dominion	State: NC Sampling Point: Whrp003-u
Investigator(s): EST (ROPER, TUN BUILT) Sec	clion, Township, Range: \00\2
Landform (hillslope, terrace, etc.):	al relief (concave, convex, none); CDY (INE) Slone (%): 7-5
Subregion (LRR or MIRA): 1 - F F U Lat: 3/9,5	37.32 1000 -77.44671 Dotumilation 94
Soil Man Unit Name: Bonney Jon Mar Sand 15-	$\frac{1}{1000} = \frac{1}{1000} = 1$
Are elimetic / hudrele sis eventificate on the site to in fact this is	
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 dist	urbed? Are "Normal Circumstances" present? Yes 🗸 No
Are Vegetation, Soil, or Hydrology naturally proble	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No 🗸
Remarks:	
Roin within 24hor	
Louis Activity 5 This.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	.RR U) Drainage Patterns (B10)
Saturation (A3)	r (C1) Moss Trim Lines (B16)
Uxidized Rhizosphere	s along Living Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3)	in Tilled Soils (C6)
Algal Mat or Crust (B4)	7) Geomorphic Position (D2)
Iron Deposits (B5)	arks) Shallow Aguitard (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? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): _	$\frac{S20}{100}$
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	annan an Anna Anna Anna Anna Anna Anna
1	

a providence

	ward003_u
Sampling Point:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30+++ x 30+++</u>)	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species
1. The para		<u> </u>	FHU	That Are OBL, FACW, or FAC:(A)
2. Litiodenation tulipiterra			<u>PHC</u>	Total Number of Dominant
3. <u>Finus taeda</u>	_60_	<u> </u>	FAC	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (00 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	60	= Total Cov	/ег	OBL species x 1 =
50% of total cover:	20% 0	f total cover	12	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <u>304, 30ft</u>)	•			FAC species x 3 =
1. Liaustam sinense,	15	У	FAC	FACU species x 4 =
2.				UPL species x 5 =
3	• •••• ••••• •••		<u></u>	Column Totals: (A) (B)
λ	·			
E	·			Prevalence Index = B/A =
· · · · · · · · · · · · · · · · · · ·	•	<u></u>	·	Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7	·			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	<u>్</u> 20% ం	f total cove	r: <u>3</u>	
Herb Stratum (Plot size: <u>3044 x 3044</u>)				¹ Indicators of hydric soil and wetland hydrology must
1. Ilex opara	10	<u> </u>	<u>PAC</u>	be present, unless disturbed or problematic.
2. Ligustrim sinense	15	<u> </u>	FAC	Definitions of Four Vegetation Strata:
3.				
4.	-		·	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and creater than 3 28 ft (1 m) tall
0	-	-		
0.			<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	25	_ = Total Co	over	
50% of total cover: 17	<u>, 5</u> 20% (of total cove	er: <u>5</u>	
Woody Vine Stratum (Plot size: 30++×30++)				
1. Rubus argutus	15	Y	FAC	
2. Smilax notundifolia	10	- <u>-</u>	FAC	
3.				
Δ				-
r.				·
] ⁽¹⁾	75			- Hydrophytic
	<u> </u>	_ = Total C	over	Present? Yes No
50% of total cover: 1 /	13 20%	of total cov	er: <u> </u>	KO
Remarks: (If observed, list morphological adaptations be	low).			
				*

SOIL

Ϊ

Sampling Point: whrp 003_u

Profile Desc	ription: (Describe	to the depth n	eeded to docu	ment the indic	ator or confir	m the absence of i	ndicators.)	······
Depth	Matrix		Red	ox Features				
(inches)	Color (moist)	<u>%</u> (Color (moist)	<u>% Tv</u>	pe' Loc ²		Remarks	
0-6	2.543/2	100				tine SL		
6-20	2.514/2	100				fine St		
								<u>_</u>
						- <u> </u>		<u></u>
	La anna anna a							
	BAR III							
		• <u> </u>						
								
Type: C=C	oncentration, D=Dep	eletion, RM=Rec	duced Matrix, M	IS=Masked Sar	d Grains.	² Location: PL	=Pore Lining, M=Mat	rix.
Hyaric Soli	indicators: (Applic	able to all LRF	ts, unless othe	erwise noted.)		Indicators for	Problematic Hydric	Soils':
	(A1)	Ļ	Polyvalue B	elow Surface (S	58) (LRR S, T,		(A9) (LRR O)	
	pipedon (A2)	Ļ	Thin Dark S	urface (S9) (LR	(R S, T, U)	2 cm Mucl	(A10) (LRR S)	
	ISUC (A3)	Ļ	Loamy Muc	ky Mineral (F1)	(LRR O)		/ertic (F18) (outside	MLRA 150A,B)
	d avers (A5)		Doploted M	ed Matrix (F2)			Floooplain Soils (F19) (LRR P, S, T)
Organic	Bodies (AS) /I BB B		Redox Dark	Buix (FS) Surface (EB)			s Bright Loamy Solls	(F20)
	icky Mineral (A7) (L1	,,,,,, <u>т</u> ВВР Т Ш — [ark Surface (F0))		1000) ht Material (TE2)	
Muck P	resence (A8) (LRR I	n [Redox Den	ressions (E8)	,	Very Shall	n waterial (11°2) low Dark Surface (TE	12)
1 cm M	uck (A9) (LRR P, T)	, T	Marl (F10) (LRR U)		Other (Exr	nlain in Remarks)	12)
Deplete	d Below Dark Surfac	e (A11) 🗍	Depleted O	chric (F11) (ML	RA 151)			
Thick D	ark Surface (A12)]	📕 Iron-Manga	nese Masses (F	12) (LRR O, F	P, T) ³ Indicato	rs of hydrophytic veg	etation and
Coast F	rairie Redox (A16) (I	MLRA 150A) [Umbric Sur	face (F13) (LRF	₹ P, T, U)	wetland	d hydrology must be	present,
Sandy I	Aucky Mineral (S1) (LRR O, S) 🗍	Delta Ochri	c (F17) (MLRA	151)	unless	disturbed or problem	atic.
Sandy C	Gleyed Matrix (S4)	ļ	Reduced Vo	ertic (F18) (MLF	RA 150A, 150E	3)		
	Redox (S5)	ļ	Piedmont F	loodplain Soils	(F19) (MLRA [·]	149A)		
	1 Matrix (S6)	1	Anomalous	Bright Loamy S	Soils (F20) (ML	.RA 149A, 153C, 15	53D)	
Pestrictive	laver (if cheening)	5, 1, 0}				1		· · · · · · · · · · · · · · · · · · ·
Tunor	Layer (il observeu)	•						
Type:			-					/
Depth (Ir	icnes):					Hydric Soil Pr	esent? Yes	No
Remarks:								
Ì								
1								

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Environmental Field Surveys Wetland Photo Page



Upland data point wnrp003_u facing north.

Project/Site: ACP	City/County: Northam Oton Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: Whrp 004f.w
Investigator(s): EST (Roper, Turnbull)	Section, Township, Range: 00002
Landform (hillslope, terrace, etc.): dring ale	Local relief (concave, convex, none): $(23/2)(23)(23)(23)(23)(23)(23)(23)(23)(23)(2$
Subregion (LRR or MLRA): LRP Lat: 3	36.53251 Long -77.43647 Detum WAS84
Soil Map Unit Name: Wehadkee Joan freader	HU flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes No. (If po. evplain in Remarks)
Are Vegetation . Soil . or Hydrology signifi	cantly disturbed? Are "Normal Circumstances" present? Yos
Are Vegetation Soil or Hydrology nature	ally nrohlematic? (If needed, explain any analysis in Romarka)
	(include) (include) explain any answers in Remarks.)
Allach site hap sho	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes V 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 a	apply)
Surface Water (A1)	na (B13)
High Water Table (A2) Marl Deposit	is (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	ulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	izospheres along Living Roots (C3)
Sediment Deposits (B2)	Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	Reduction in Tilled Soils (C6)
Algal Mat or Crust (B4)	urface (C7)
I iron Deposits (B5)	in 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? Yes <u>No Depth (</u>	inches): <u>V 1-1</u>
Valer rable Present? Yes <u>No</u> Depth (inches):
(includes capillary fringe)	Inches): Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:
Pomorker	
Remarks.	

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Sampling Point: MICTPOULF_W

Tree Stratum (Plat size: 304 x 304)	Absolute	Dominant Species2	Indicator	Dominance Test worksheet:
1 Viewstrater (Protisize. <u>Service voice</u>)	7 G	Species?		Number of Dominant Species
1. LINDSHOWN SINGING		-		That Are OBL, FACW, or FAC: (A)
2. ALEV TUBIUM	15	<u>}</u>	1-1+0	Total Number of Dominant
3		<u> </u>		Species Across All Strata: (B)
4				Persont of Demiserat Granica
5				That Are OBL FACW or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.			<u> </u>	Total % Cover of: Multiply by:
	40	= Total Cov		OBL species x 1 =
EON of total asymption 7 17	200% at			FACW species x 2 =
Sopling/Shrub Strotum (Distaires, 2 OU v 2004)	20% 0	total cover.		FAC species x 3 =
Sabilingramino Stratum (Plot size: <u>SOAT 20041</u>)	75	N	cor,	FACU species x 4 =
- Puller		<u> </u>	<u>Ph</u>	
2. Minor touca	10	<u> </u>	<u>VHC</u>	
3. Her rubrum	<u> </u>	<u> </u>	140	(A) (B)
4	<u></u>			Prevalence index = B/A =
5				Hydronhytic Vegetation Indicators:
6		<u></u>		
7				
8.				\Box 2 - Dominance results >50%
	50	= Total Cou	er	□ 3 - Prevalence Index is ≤3.0'
50% of total power: 25	2004 0	Etatal aquar	. 10	Problematic Hydrophytic Vegetation' (Explain)
Horth Stratum (Distriction 30% of total cover.	20% 0	l total cover		
Held Stratum (Plot size:				¹ Indicators of hydric soil and wetland hydrology must
1. horiz	• ••••••	`	·	be present, unless disturbed or problematic.
2	·		<u> </u>	Definitions of Four Vegetation Strata:
3		<u></u>		Tree - Woody plants, excluding vines 3 in (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sanling/Shrub - Woody plants, evoluting vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
9.	•		<u></u>	of size, and woody plants less than 3 28 ft tall
10		·		of one, and woody plants leas that 5.20 it tall.
11				Woody vine – All woody vines greater than 3.28 ft in
			<u> </u>	neight.
12		·		
		= Total Co	ver	
50% of total cover:	20% c	of total cover	r:	
Woody Vine Stratum (Plot size: 3077×3017)				
1. Smilax potunditolia	25	<u> </u>	FAC	
2. Lonivera japonica	10	<u> </u>	FAL	
3. Lubus arguitus	15	Y	FAC	
4. 0				
5				
			- <u> </u>	Hydrophytic Varatetian
	<u></u>		ver	Present? Yes No
50% of total cover: <u></u>	20% (of total cove	r: <u> </u>	
Remarks: (If observed, list morphological adaptations bel	ow).			
•				

SOIL

Sampling Point: Why p004f.w

Profile Desc	ription: (Describe	to the depth n	eeded to docun	nent the ir	ndicator	or confirm t	the absence of ind	licators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	<u>%</u> (Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-3	2.51 12	<u> </u>		. <u> </u>				
3-10	2.5441	95 10	DY12416	_5_	<u> </u>	PL	L	
10-7.0	2,5451	95 1	OYRML		С	PL	51	
							<u></u>	
		·		·			· ·	
						<u> </u>		
			,	·				
	······							
¹ Type: C=C	oncentration, D=Dep	letion, RM=Red	duced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL=P	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRF	Rs, unless other	wise note	ed.)		Indicators for P	roblematic Hydric Soils ³ :
Histosol	(A1)	ſ	Polyvalue Be	low Surfac	ce (S8) (1	.RR S, T, U)	1 cm Muck (A9) (LRR O)
Histic E	pipedon (A2)	Ĩ	Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Muck (A10) (LRR S)
Black H	stic (A3)	[Loamy Muck	y Mineral ((F1) (LRF	R O)	Reduced Ve	rtic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)	[Loamy Gleye	ed Matrix (I	F2)		Piedmont Fl	oodplain Soils (F19) (LRR P, S, T)
Stratifie	Layers (A5)	. 	Depleted Ma	trix (F3)			L Anomalous I	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	', T, U) <u> </u>	Redox Dark	Surface (F	6) (F7)		(MLRA 15	3B)
	icky Mineral (A7) (Ll	кк P, I, U) N [Depleted Dal	rk Surface	(<i>F1</i>)		Red Parent	Material (TF2)
	ICK (A9) /I RR P T)	יי <u>ו</u> ו		BBIN (PC	0)			w Dark Sufface (TF12)
Deplete	d Below Dark Surfac	.e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)	сты отны (схрв	an n reliaits)
Thick D	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12)	(LRR O, P. '	T) ³ Indicators	of hydrophytic vegetation and
Coast P	rairie Redox (A16) (MLRA 150A) 🗍	Umbric Surfa	ace (F13) (LRR P, I	r, U)	wetland I	hydrology must be present.
Sandy M	Aucky Mineral (S1) (LRR 0, S)	Delta Ochric	(F17) (ML	.RA 151)		unless di	sturbed or problematic.
Sandy C	Gleyed Matrix (S4)	ļ	Reduced Ver	rtic (F18) (MLRA 1	50A, 150B)		
	Redox (S5)		Piedmont Flo	oodplain S	oils (F19) (MLRA 14	θA)	
	i Matrix (S6)	j e truv	Anomalous I	Bright Loar	my Soils	(F20) (MLR/	A 149A, 153C, 153	D)
Restrictivo	Laver (if obcorried)	5, 1, U) ·						
Tupor	rayer (ir onserved)	•						ŗ
Dopth //-	choc);		_				11	
	cnes):						Hydric Soil Pres	ent? Yes <u>V</u> No
Remarks:								
1								
1								
1								
4.								

Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp004f_w facing east.

Project/Site: ACP	City/County: Northam pton Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC_ Sampling Point: White OO4- u
Investigator(s): ESE (Roper, Turnbull) s	Section, Township, Range: <u>none</u>
Landform (hillstope, terrace, etc.):	ocal relief (concave, convex, none): Loncave Slope (%): 2-5
Subregion (LRR or MLRA): LPP 0 Lat: 36.	53256 Long: -77,43654 Datum: W6584
Soil Map Unit Name: Gritney Sundy Joan, 2-6%.	610 PES NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	IT? Yes No (If no, explain in Remarks)
Are Vegetation Soil or Hydrology significantly of	Jisturbed? Are "Normal Circumstances" present? Yes Mo
Are Vegetation, Soil, or Hydrology naturally prot	plematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>No</u>
rain within 24hrs,	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required: check all that apply)	
Surface Water (A1)	
High Water Table (A2)	(LRR U) Drainage Patterns (B10)
Saturation (A3)	dor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosphe	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	ed Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ion in Tilled Soils (C6)
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)
Linon Deposits (B5)	emarks)
L Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
L Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches)	. NA
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	is, previous inspections), if available:
Preseden	
Remarks:	

Sampling Point: wnrp 004-4

7. 0 7.061.2001	Absolute	Dominant	Indicator	Dominance Test worksheet:
Iree Stratum (Plot size: <u>3077 x 3077</u>)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Liguetrum sinense		<u> </u>	<u>PBC</u>	That Are OBL, FACW, or FAC: (A)
2. <u>Pinus</u> taeda		<u> </u>	FHC	Total Number of Dominant
3. Acer rubrum	10	<u> </u>	FAC	Species Across All Strata: (B)
4,		<i></i>		
5				That Are OBL EACIAL or EAC: NO (A/P)
6.	· · · ·			machie Obe, i AOW, of PAC. <u>100</u> (AB)
7				Prevalence Index worksheet:
8	•	<u></u>		Total % Cover of: Multiply by:
	US	- Total Car		OBL species x1=
77	Sec.		er Ci	FACW species x 2 =
	<u>~</u> 20% 01	total cover:		FAC species x3=
Sapling/Shrub Stratum (Plot size: <u>SOMEXJUFF</u>)	1 5000		001	
1. J. Vex mina	15	_ 	FF10	
2. Ligustrum sinense	15	<u> </u>	THC	
3. Acer rubrum		<u> </u>	FAC	Column Lotals: (A) (B)
4				Prevalence Index = B/A =
5				Hudronhutio Vegetation Indicate rec
6.				
7 .				Hapid Test for Hydrophytic Vegetation
P				2 - Dominance Test is >50%
0.	50		<u> </u>	3 - Prevalence Index is ≤3.0 ³
7 9			/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	<u> </u>	f total cover	:	
Herb Stratum (Plot size: <u>507773077</u>)				¹ Indicators of hydric soil and wetland hydrology must
1. hore			· · · · · · · · · · · · · · · · · · ·	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
4.				more in diameter at breast beight (DBH) regardless of
5.				height.
6		. <u> </u>		
7				sapling/Shrub – Woody plants, excluding vines, less
0	-			
0,				Herb - All herbaceous (non-woody) plants, regardless
9		-		of size, and woody plants less than 3.28 ft tall.
10			· •	Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	0	_ = Total Co	ver	
50% of total cover:	20% c	of total cove	r:	
Woody Vine Stratum (Plot size: 30ft x 30 ft)				
1. Smilax rotundifolia	25	Y	FAC,	
2 Vitis notandifilia	10	Ý	FAC	
2 Lonicerce inconstru	- <u>- [</u>] 17\	- <u> </u>	EDI.	
s. <u>-emcera</u> japonia	1()	!		
4		-		
5			-	- Hydrophytic
	45	_ = Total Co	ver	Vegetation
50% of total cover: 2 ×	<u>520%</u>	of total cove	er:	Presentr Yes <u>No</u> No
Remarks: (If observed, list morphological adaptations be				
•	low).			
	ilow).			

SOIL

Sampling Point: wnrp004-u

Profile Description: (Describe to the depth needed to document the indicator or confirm the	he absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-12 2.5/12 100	
12-20 2.545/3 100	56
	2
Type: U=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	"Location: PL=Pore Lining, M=Matrix.
Tyune som mulcators: (Applicable to all LKKs, unless otherwise noted.)	indicators for Problematic Hydric Solls":
Imisiosol (A1) Imisiosol (A1) Imisiosol (A1) Imisiosol (A1)	
Black Hietic (A2)	Leg 2 cm Muck (A10) (LRR S)
Hydronen Sulfide (A4)	Piedmont Elondoloio Sollo (E10) (LEB D. S. T)
Stratified Lavers (A5)	Anomalous Bright Learny Soils (F19) (LRK P, S, T)
Organic Bodies (A6) (LRR P. T. U)	(MI RA 153R)
5 cm Mucky Mineral (A7) (LRR P. T. U)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	- · · · ·
Thick Dark Surface (A12)) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	
Stripped Motrix (SS)	A)
Dark Surface (S7) (LBR P. S. T. II)	(149A, 153C, 153D)
Restrictive Laver (if observed):	
	/
Dopth (inchen)	
Depart (inches):	Hydric Soll Present? Yes No
Kemarks:	

Environmental Field Surveys Wetland Photo Page



Upland data point wnrp004_u facing west.

Project/Site: Atlantic Coast Pipeline		_ City/County: 1	Northampton		Sampling Date: <u>3/27/2015</u>		
Applicant/Owner: DOMINION				State: NC	Sampling Po	pint: wnrc008f_w	
Investigator(s): Team C		Section, Towr	nship, Range: <u>N</u>	lo PLSS in this are	a		
Landform (hillslope, terrace, etc.): Depres	ssion	_ Local relief (co	oncave, convex	, none): <u>concave</u>		Slope (%): <u>1</u>	
Subregion (LRR or MLRA): P	Lat: <u>36.5</u> 2	2825023	Long:	77.42394092		Datum: WGS 1984	
Soil Map Unit Name: Bonneau loamy sar	nd, 0 to 6 percent slopes		•	NWI classifi	cation: PFO40	0	
Are climatic / hydrologic conditions on the	site typical for this time of	year?Yes 🖌 🖌	No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or H	ydrology significant	ly disturbed?	Are "Norma	I Circumstances"	present? Yes	s No	
Are Vegetation , Soil , or H	ydrology naturally r	problematic?	(If needed,	explain any answe	ers in Remarks	3.)	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Water levels are higher than normal due	Yes <u>v</u> No <u>v</u> Yes <u>v</u> No <u>v</u> Yes <u>v</u> No <u>v</u> to recent heavy rain	Is the within	Sampled Area a Wetland?	Yes <u></u>	<u> </u>		
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indic	ators (minimur	n of two required)	
Primary Indicators (minimum of one is re	equired; check all that apply	()		Surface Soil	Cracks (B6)		
✓ Surface Water (A1)	Aquatic Fauna (E	313)		Sparsely Ve	getated Conca	ave Surface (B8)	
 High Water Table (A2) 	Marl Deposits (B	15) (LRR U)		Drainage Pa	atterns (B10)		
 Saturation (A3) 	Hydrogen Sulfide	e Odor (C1)		Moss Trim L	ines (B16)		

Presence of Reduced Iron (C4)

____ Thin Muck Surface (C7)

 Yes
 V
 No
 Depth (inches):
 10

 Yes
 V
 No
 Depth (inches):
 0

 Yes
 V
 No
 Depth (inches):
 0

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

____ Other (Explain in Remarks)

___ Recent Iron Reduction in Tilled Soils (C6)

____ Oxidized Rhizospheres along Living Roots (C3) ____ Dry-Season Water Table (C2)

____ Crayfish Burrows (C8)

____ Shallow Aquitard (D3)

✓ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes ____ No _

✓ Geomorphic Position (D2)

____ Saturation Visible on Aerial Imagery (C9)

Sphagnum moss (D8) (LRR T, U)

Remarks:

Wetland hydrology present

✓ Water Marks (B1)

____ Drift Deposits (B3)

____ Iron Deposits (B5)

Field Observations:

Saturation Present? (includes capillary fringe)

Surface Water Present? Water Table Present?

____ Sediment Deposits (B2)

____ Algal Mat or Crust (B4)

____ Inundation Visible on Aerial Imagery (B7)

Water-Stained Leaves (B9)

Sampling Point: wnrc008f_w

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Betua higra	30	Yes		That Are OBL, FACW, or FAC:4 (A)
2. Acer rubrum		Yes	FAC	Total Number of Dominant
3. Pinus taeda	5	NO	FAC	Species Across All Strata:4 (B)
4. Quercus nigra	5	No	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				Describer of the description of the
7				Prevalence index worksheet:
8				<u>I otal % Cover of:</u> <u>Multiply by:</u>
	65	= Total Cov	er	OBL species $x_1 = 0$
50% of total cover:	20% of	total cover:	13	FACW species 100 x 2 = 70 300
Sapling/Shrub Stratum (Plot size: 15)				FAC species $3 = 0$
_{1.} Vaccinium corymbosum	5	Yes	FACW	FACU species $0 x 4 = 0$
2.				UPL species $0 \times 5 = 0$
3.				Column Totals: (A) (B)
4				Prevalence Index = $B/A = 2.74$
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is $\leq 3.0^1$
	5	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:2.5	20% of	total cover:	1	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3.				
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
5				height.
6				Conting/Chrub Weedy plants evoluting vines less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
Q				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
10				
11				Woody vine – All woody vines greater than 3.28 ft in
12				neight.
12	0	- Total Cav		
			er 0	
	20% 01	total cover.		
Woody Vine Stratum (Plot size:)	65	Ves	FAC	
		103		
2				
3				
4				
5				Hydrophytic
	65	= Total Cov	er	Vegetation Brocent?
50% of total cover: <u>32.5</u>	20% of	total cover:	13	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe to	o the dep	h needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	Features	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	2.5 Y 3/2	98	10 YR 3/3	2	С	PL	SL	
8-16	10 YR 6/1	97	10 YR 6/6	3	С	PL	SL	
·				<u> </u>		<u> </u>		
·								
·				. <u> </u>				
¹ Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	=Masked	I Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all	LRRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Bel	low Surfac	ce (S8) (L	RR S, T, U)	1 cm M	luck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Su	rface (S9)	(LRR S, '	T, U)	2 cm M	luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky	/ Mineral ((F1) (LRR	0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		 Depleted Mat 	rix (F3)			Anoma	lous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F	6)		(MLR	A 153B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Pa	arent Material (TF2)
Muck Pr	esence (A8) (LRR U)		Redox Depre	ssions (F8	8)		Very SI	hallow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Explain in Remarks)
Depleted	Below Dark Surface	(A11)	Depleted Och	ric (F11)	(MLRA 15	51)		
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) (I	_RR O, P, T) ³ Indica	ators of hydrophytic vegetation and
Coast Pi	rairie Redox (A16) (M	LRA 150A) Umbric Surfa	ce (F13) (LRR P, T	U)	wetl	and hydrology must be present,
Sandy M	lucky Mineral (S1) (L l	RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unle	ess disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)	
Stripped	Matrix (S6)		Anomalous B	right Loar	ny Soils (F	20) (MLRA	149A, 153C,	153D)
Dark Su	face (S7) (LRR P, S,	T, U)						
Restrictive I	_ayer (if observed):							
Туре:								
Depth (ind	ches):						Hydric Soil	Present? Yes <u>No</u> No
Remarks:								
Hydric soil pre	esent							
1								



Photo 1 Wetland data point wnrc008f_w facing northeast



Photo 2 Wetland data point wnrc008f_w facing southwest

C	City/County: No	orthampton	Sampling Date: 3/27/			27/2015
		Stat	e: NC	Sampli	ng Point: <u>wn</u>	rc008e_w
9	Section, Towns	hip, Range: <u>No Pl</u>	SS in this	area		
L	ocal relief (con	cave, convex, nor	e): <u>concav</u>	ve	Slope ((%): <u>1</u>
Lat: <u>36.5283</u>	8526	Long: <u>-77.4</u>	2378865		Datur	n: WGS 1984
ent slopes			NWI clas	sification: F	PFO4C	
r this time of yea significantly d naturally prob ap showing 3	r? Yes <u>/</u> listurbed? blematic? sampling p	No (If n Are "Normal Cir (If needed, expl oint locations	o, explain cumstance ain any an , transe	in Remarks. es" present? swers in Re cts, impc) Yes <u></u> marks.)	No
No No No	Is the Sa within a	ampled Area Wetland?	Yes _	N	0	
evels were high	than normal du	e to recent heavy	rains.			
	C	City/County: No Section, Townsi Local relief (con Lat: 36.52838526 ent slopes This time of year? Yes significantly disturbed? naturally problematic? ap showing sampling p Is the Sa within a No Is the Sa within a No Is the Sa	City/County: Northampton Section, Township, Range: No PL Local relief (concave, convex, non Lat: 36.52838526 Local relief (concave, convex, non Lat: 36.52838526 Local relief (concave, convex, non Lat: 36.52838526 Long: -77.4 ent slopes ✓ * this time of year? Yes No (If needed, expland) ap showing sampling point locations No Is the Sampled Area No lis the Sampled Area No within a Wetland?		City/County: Northampton Sampli State: NC Sampli Section, Township, Range: No PLSS in this area Local relief (concave, convex, none): concave Lat: 36.52838526 Long: -77.42378865 Lat: 36.52838526 Long: -77.42378865 Lat: 36.52838526 NVI classification: F significantly disturbed? No (If no, explain in Remarks. significantly disturbed? Are "Normal Circumstances" present? naturally problematic? (If needed, explain any answers in Re ap showing sampling point locations, transects, impoint No Is the Sampled Area No Nithin a Wetland? Yes ✓ No No Nithin a Wetland? Yes ✓ No No Nithin a Wetland? Yes V No	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) 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)
Field Observations:	
Surface Water Present? Yes V No Depth (inches): 8 Water Table Present? Yes V No Depth (inches): 0 Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) Ves V No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes <u>Y</u> No tions), if available:
Remarks: Wetland hydrology prešent	

Sampling Point: <u>wnrc008e_w</u>

30	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
23.				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC:100 (A/B)
7	·			Prevalence Index worksheet:
7 o	·			Total % Cover of: Multiply by:
o	0			OBL species x 1 =0
EO9/ of total covery 0	200/ of		0	FACW species $50 x 2 = 100$
So% of total cover:	20% 01	total cover:		FAC species $5 \times 3 = 15$
Sapling/Shrub Stratum (Plot size:15)				FACU species $0 \times 4 = 0$
1	·			UPL species $0 \times 5 = 0$
2	·			$\frac{115}{115}$
3 4.				$\frac{1}{2} \frac{1}{2} \frac{1}$
5.				
6.				1 Danid Test for Lludrenbutis Vegetation
7	·			
8				2 - Dominance Test is >50%
0	0	- Total Cava	-	3 - Prevalence Index is ≤3.0
50% of total array 0			0	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% 01	total cover:	<u> </u>	
Herb Stratum (Plot size:) 1. Panicum dichotomiflorum	50	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Smilax rotundifolia	5	No	FAC	Definitions of Four Vegetation Strata:
3.				The All Alexandra A
4.				nee – woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
5				height.
6	·			Sepling/Shuth Woody plants evaluating vince loss
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
07		= Total Cove	r 11	
50% of total cover: 27.3	20% of	total cover:		
Woody Vine Stratum (Plot size: 30)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cove	r	Vegetation
50% of total cover: 0	20% of	total cover:	0	Present? Yes Vo No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the in	ndicator	or confirm	the absence of indicators.)			
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Rema	arks		
0-8	2.5 Y 3/2	98	10 YR 3/3	2	С	PL	SL			
8-16	10 YR 6/1	97	10 YR 6/6	3	С	PL	SL			
				. <u> </u>						
¹ Type: C=Co	oncentration, D=Deple	etion, RM	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL=Pore Lining, M=	Matrix.		
Hydric Soil	Indicators: (Applica	ble to all	LRRS, unless other	wise note	d.)		Indicators for Problematic Hyd	dric Solls":		
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (L	.RR S, T, U	1 cm Muck (A9) (LRR O)			
Histic Ep	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Muck (A10) (LRR S)			
Black Hi	stic (A3)		Loamy Muck	y Mineral (I	F1) (LRF	l O)	Reduced Vertic (F18) (outs	ide MLRA 150A,B)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Piedmont Floodplain Soils ((F19) (LRR P, S, T)		
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anomalous Bright Loamy S	oils (F20)		
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark \$	Surface (F6	3)		(MLRA 153B)			
5 cm Mu	icky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Parent Material (TF2)			
Muck Pr	esence (A8) (LRR U)		Redox Depre	ssions (F8			Very Shallow Dark Surface	Shallow Dark Surface (TE12)		
1 cm Mu			Marl (F10) (I	RR II)	/		Other (Explain in Remarks)			
T chi Md	d Rolow Dark Surface	(11)		aric $(E11)$		51)				
		(ATT)		1110 (F T T) (, nn o n	r) ³ ladianten of hydrophytics			
	ark Surface (A12)			ese masse	S(F12)(LRR 0, P,	i) Indicators of hydrophytic	vegetation and		
Coast Pi	rairie Redox (A16) (M	LRA 150	A) Umbric Surfa	ce (F13) (L	_RR P, T	, U)	wetland hydrology must	be present,		
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)		unless disturbed or prob	lematic.		
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18) (N	MLRA 15	0A, 150B)				
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14)A)			
Stripped	Matrix (S6)		Anomalous F	Bright Loam	nv Soils (、 F20) (MLR/	149A, 153C, 153D)			
Dark Su	rface (S7) (LRR P, S ,	T, U)		ingin Louin	ly cono (20) (11210				
Restrictive I	Layer (if observed):									
Туре:										
Depth (inc	ches):						Hydric Soil Present? Yes	No		
Remarks:										
Hydric soil pre	esent									



Photo 1 Wetland data point wnrc008e_w facing east



Photo 2 Wetland data point wnrc008e_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: <u>^</u>	Northampton	Sampling Date: 3/27/2015			
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc008_u			
Investigator(s):	Section, Towr	ship, Range: <u>No PLSS in this a</u>	rea			
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): <u>1</u>			
Subregion (LRR or MLRA): P Lat:	36.5283124	Long: <u>-77.42351436</u>	Datum: WGS 1984			
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent slop	bes	NWI classi	fication: None			
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Yes 🔽	No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed?	Are "Normal Circumstances"	" present? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology natu	arally problematic?	(If needed, explain any answ	vers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes <u>V</u> No	Is the	Sampled Area				

Hydric Soil Present?	Yes	No 🗹	within a Wotland?	Voc	
Wetland Hydrology Present?	Yes	No 🖌		165	NO
Remarks:					
Data point taken within a clear cut					

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)
Water Marks (B1) Oxidized Rhizospheres along Living F	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? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🔽 Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Ltions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	Ltions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:

Sampling Point: <u>wnrc008_u</u>

30	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				
5				That Are OBL, FACW, or FAC:
6			<u> </u>	Prevalence Index worksheet:
7			<u> </u>	Total % Cover of: Multiply by:
8				$\frac{0}{0}$ OBL species $\frac{0}{x + 1} = 0$
0	0	= Total Cove	r O	EACW species $\frac{80}{2}$ x 2 = $\frac{160}{2}$
50% of total cover:	20% of	total cover:	0	$\frac{1}{5}$
Sapling/Shrub Stratum (Plot size: 15)	_		540	$\frac{1}{20} \times 1 = \frac{80}{20}$
1. Liquidambar styraciflua	5	Yes	FAC	$\frac{1}{10} = \frac{1}{10} $
2				OFL species 105 (A) 255 (D)
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =2.42
^{5.}	·			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	. <u> </u>			✓ 2 - Dominance Test is >50%
8				\checkmark 3 - Prevalence Index is ≤3.0 ¹
	5	= Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.5	20% of	total cover:	1	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Panicum dichotomiflorum	80	Yes	FACW	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	20	Yes	FACU	Definitions of Four Vegetation Strata:
3				Tree Woody plants, evoluting vince, 3 in (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sanling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	100	= Total Cove	r	
50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size:30)				
1				
2				
3.				
4.				
5				Hadeselard's
· · · · · · · · · · · · · · · · · · ·	0	= Total Cove	r	Nydropnytic Vegetation
50% of total covor: 0	20% of	total covor:	0	Present? Yes <u>V</u> No
Bernarden (If abaar vad liet marrhala sigel adaptations hale	20 % 01			
Remarks: (IT observed, list morphological adaptations belo	w).			

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	2.5 YR 4/3	100					LS			
8-16	2.5 Y 6/3	100		·	<u> </u>		LS			
				·						
				· ·						
				<u> </u>						
	<u> </u>									
¹ Type: C=C	Concentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Lini	ng, M=Matrix	۲.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless other	wise note	d.)		Indicators for	or Problema	atic Hydric S	ioils³:
Histoso	l (A1)		Polyvalue Be	low Surfac	e (S8) (L	RR S, T, U) 1 cm Mu	ck (A9) (LR	R 0)	
Histic E	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Mu	ck (A10) (LF	RR S)	
Black ⊢	listic (A3)		Loamy Muck	/ Mineral (F	=1) (LRR	0)	Reduced	I Vertic (F18) (outside N	ILRA 150A,B)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		Piedmon	t Floodplain	Soils (F19)	(LRR P, S, T)
<u>Stratifie</u>	ed Layers (A5)		Depleted Mat	rix (F3)			Anomalo	us Bright Lo	amy Soils (F	-20)
Organio	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F6	3)		(MLRA	(153B)		
5 cm M	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface ((F7)		Red Pare	ent Material	(TF2)	
Muck P	resence (A8) (LRR U)		Redox Depre	ssions (F8)		Very Sha	allow Dark S	urface (TF1	2)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (E	xplain in Re	marks)	
Deplete	ed Below Dark Surface	(A11)	Depleted Och	nric (F11) (I	MLRA 1	51)		•	,	
Thick D	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (, LRR O, P, ⁻	T) ³ Indicat	ors of hydro	phytic veget	ation and
Coast F	Prairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (L	RR P, T	, U)	wetla	nd hydrolog	y must be pr	esent,
Sandy I	Mucky Mineral (S1) (L	RR 0, S)	Delta Ochric	(F17) (MLF	RA 151)		unles	s disturbed	or problemat	ic.
Sandy	Gleved Matrix (S4)		Reduced Ver	tic (F18) (N	, ILRA 15	0A, 150B)				
 Sandv I	Redox (S5)		Piedmont Flo	odplain So	ils (F19)	(MLRA 149	ĐA)			
Strippe	d Matrix (S6)		Anomalous B	right Loam	v Soils (I		, A 149A. 153C. 1	53D)		
Dark St	urface (S7) (LRR P, S,	T. U)			, (·		,,,.	,		
Restrictive	Layer (if observed):									
Туре:										
Depth (ir	nches):						Hydric Soil P	resent?	res	No 🖌
Remarks:							1			
No hydric so	il present									
-	•									



Photo 1 Upland data point wnrc008_u facing east



Photo 2 Upland data point wnrc008_u facing south

Project/Site: Atlantic Coast Pipeline	_ City/County: 1	City/County: Northampton			_ Sampling Date: <u>3/27/2015</u>		
Applicant/Owner: DOMINION				State: NC	Sampling Po	pint: wnrc008f_w	
Investigator(s): Team C		Section, Towr	nship, Range: <u>N</u>	lo PLSS in this are	a		
Landform (hillslope, terrace, etc.): Depres	ssion	_ Local relief (co	oncave, convex	none): <u>concave</u>		Slope (%): <u>1</u>	
Subregion (LRR or MLRA): P	Lat: <u>36.5</u> 2	2825023	Long:	77.42394092		Datum: WGS 1984	
Soil Map Unit Name: Bonneau loamy sar	nd, 0 to 6 percent slopes		•	NWI classifi	cation: PFO40	0	
Are climatic / hydrologic conditions on the	site typical for this time of	year?Yes 🖌 🖌	No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or H	ydrology significant	ly disturbed?	Are "Norma	I Circumstances"	present? Yes	3 🖌 No	
Are Vegetation , Soil , or H	ydrology naturally r	problematic?	(If needed,	explain any answe	ers in Remarks	3.)	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Water levels are higher than normal due	Yes <u>v</u> No <u>No</u> Yes <u>v</u> No <u>Yes</u> No <u>Yes</u> Vo	Is the within	Sampled Area a Wetland?	Yes <u></u>	<u> </u>		
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indic	ators (minimur	n of two required)	
Primary Indicators (minimum of one is re	equired; check all that apply	()		Surface Soil	Cracks (B6)		
✓ Surface Water (A1)	Aquatic Fauna (E	313)		Sparsely Ve	getated Conca	ave Surface (B8)	
 High Water Table (A2) 	Marl Deposits (B	15) (LRR U)		Drainage Pa	atterns (B10)		
 Saturation (A3) 	Hydrogen Sulfide	e Odor (C1)		Moss Trim L	ines (B16)		

Presence of Reduced Iron (C4)

____ Thin Muck Surface (C7)

 Yes
 V
 No
 Depth (inches):
 10

 Yes
 V
 No
 Depth (inches):
 0

 Yes
 V
 No
 Depth (inches):
 0

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

____ Other (Explain in Remarks)

___ Recent Iron Reduction in Tilled Soils (C6)

____ Oxidized Rhizospheres along Living Roots (C3) ____ Dry-Season Water Table (C2)

____ Crayfish Burrows (C8)

____ Shallow Aquitard (D3)

✓ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes ____ No _

✓ Geomorphic Position (D2)

____ Saturation Visible on Aerial Imagery (C9)

Sphagnum moss (D8) (LRR T, U)

Remarks:

Wetland hydrology present

✓ Water Marks (B1)

____ Drift Deposits (B3)

____ Iron Deposits (B5)

Field Observations:

Saturation Present? (includes capillary fringe)

Surface Water Present? Water Table Present?

____ Sediment Deposits (B2)

____ Algal Mat or Crust (B4)

____ Inundation Visible on Aerial Imagery (B7)

Water-Stained Leaves (B9)

Sampling Point: wnrc008f_w

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Betua higra	30	Yes		That Are OBL, FACW, or FAC:4 (A)
2. Acer rubrum		Yes	FAC	Total Number of Dominant
3. Pinus taeda	5	NO	FAC	Species Across All Strata:4 (B)
4. Quercus nigra	5	No	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				Describer of the description of the
7				Prevalence index worksheet:
8				<u>I otal % Cover of:</u> <u>Multiply by:</u>
	65	= Total Cov	er	OBL species $x_1 = 0$
50% of total cover:	20% of	total cover:	13	FACW species 100 x 2 = 70 300
Sapling/Shrub Stratum (Plot size: 15)				FAC species $3 = 0$
_{1.} Vaccinium corymbosum	5	Yes	FACW	FACU species $x 4 = 0$
2.				UPL species $0 \times 5 = 0$
3.				Column Totals: (A) (B)
4				Prevalence Index = $B/A = 2.74$
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is $\leq 3.0^1$
	5	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:2.5	20% of	total cover:	1	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3.				
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
5				height.
6				Conting/Chrub Weedy plants evoluting vince less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
Q				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
10				
11				Woody vine – All woody vines greater than 3.28 ft in
12				neight.
12	0	- Total Cav		
			er 0	
	20% 01	total cover.		
Woody Vine Stratum (Plot size:)	65	Ves	FAC	
		103		
2				
3				
4				
5				Hydrophytic
	65	= Total Cov	er	Vegetation Brocent?
50% of total cover: <u>32.5</u>	20% of	total cover:	13	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	ription: (Describe to	o the dep	h needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)		
Depth	Matrix		Redox	Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	2.5 Y 3/2	98	10 YR 3/3	2	С	PL	SL			
8-16	10 YR 6/1	97	10 YR 6/6	3	С	PL	SL			
·				<u> </u>		<u> </u>				
								<u> </u>		
·				. <u> </u>						
¹ Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	=Masked	I Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applica	ble to all	LRRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Bel	low Surfac	ce (S8) (L	RR S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Ep	oipedon (A2)		Thin Dark Su	rface (S9)	(LRR S, '	T, U)	2 cm M	luck (A10) (LRR S)		
Black Hi	stic (A3)		Loamy Mucky	/ Mineral ((F1) (LRR	0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		 Depleted Mat 	rix (F3)			Anoma	lous Bright Loamy Soils (F20)		
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F	6)		(MLR	A 153B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Pa	Red Parent Material (TF2)		
Muck Pr	esence (A8) (LRR U)		Redox Depre	ssions (F8	8)		Very Shallow Dark Surface (TF12)			
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Explain in Remarks)		
Depleted	Below Dark Surface	(A11)	Depleted Och	ric (F11)	(MLRA 15	51)				
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) (I	_RR O, P, T) ³ Indica	ators of hydrophytic vegetation and		
Coast Pi	rairie Redox (A16) (M	LRA 150A) Umbric Surfa	ce (F13) (LRR P, T	U)	wetland hydrology must be present,			
Sandy M	lucky Mineral (S1) (L l	RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless disturbed or problematic.			
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 15	0A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 149	A)			
Stripped	Matrix (S6)		Anomalous B	right Loar	ny Soils (F	20) (MLRA	149A, 153C,	153D)		
Dark Su	face (S7) (LRR P, S,	T, U)								
Restrictive I	_ayer (if observed):									
Туре:										
Depth (ind	ches):						Hydric Soil	Present? Yes No		
Remarks:										
Hydric soil pre	esent									
1										


Photo 1 Wetland data point wnrc008f_w facing northeast



Photo 2 Wetland data point wnrc008f_w facing southwest

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

C	City/County: Northampton			Sampli	_ Sampling Date: <u>3/27/2015</u>	
		Stat	e: NC	Sampli	ng Point: <u>wn</u>	rc008e_w
9	_ Section, Township, Range: <u>No PLSS in this are</u>		area			
L	ocal relief (con	cave, convex, nor	e): <u>concav</u>	ve	Slope ((%): <u>1</u>
Lat: <u>36.5283</u>	8526	Long: <u>-77.4</u>	2378865		Datur	n: WGS 1984
ent slopes			NWI clas	sification: F	PFO4C	
r this time of yea significantly d naturally prob ap showing 3	r? Yes <u>/</u> listurbed? blematic? sampling p	No (If n Are "Normal Cir (If needed, expl oint locations	o, explain cumstance ain any an , transe	in Remarks. es" present? swers in Re cts, impc) Yes <u></u> marks.)	No
No No No	Is the Sa within a	ampled Area Wetland?	Yes _	N	0	
evels were high	than normal du	e to recent heavy	rains.			
	C	City/County: No Section, Townsi Local relief (con Lat: 36.52838526 ent slopes This time of year? Yes significantly disturbed? naturally problematic? ap showing sampling p Is the Sa within a No Is the Sa within a No Is the Sa	City/County: Northampton Section, Township, Range: No PL Local relief (concave, convex, non Lat: 36.52838526 Local relief (concave, convex, non Lat: 36.52838526 Local relief (concave, convex, non Lat: 36.52838526 Long: -77.4 ent slopes ✓ * this time of year? Yes No (If needed, expland) naturally problematic? (If needed, expland) No Is the Sampled Area No Is the Sampled Area No within a Wetland?		City/County: Northampton Sampli State: NC Sampli Section, Township, Range: No PLSS in this area Local relief (concave, convex, none): concave Lat: 36.52838526 Long: -77.42378865 Ent slopes NUl classification: F r this time of year? Yes ✓ No significantly disturbed? Are "Normal Circumstances" present? naturally problematic? (If needed, explain any answers in Re ap showing sampling point locations, transects, impo No Nithin a Wetland? Yes ✓ No No Nithin a Wetland? Yes M No No	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) 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)
Field Observations:	
Surface Water Present? Yes V No Depth (inches): 8 Water Table Present? Yes V No Depth (inches): 0 Saturation Present? Yes V No Depth (inches): 0 (includes capillary fringe) Ves V No Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes <u>Y</u> No tions), if available:
Remarks: Wetland hydrology prešent	

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

Sampling Point: <u>wnrc008e_w</u>

30	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
7				Prevalence Index worksheet:
/				Total % Cover of: Multiply by:
0	0			OBL species x 1 =0
			0	FACW species $50 x 2 = 100$
S0% of total cover:	20% 01	total cover:		FAC species $5 \times 3 = 15$
Sapling/Shrub Stratum (Plot size:15)				FACU species $0 \times 4 = 0$
1				UPL species $0 \times 5 = 0$
2		·······		$\frac{115}{115}$
3 4.				$\frac{1}{2} \frac{1}{2} \frac{1}$
5.				
6.				1 Danid Test for Hydrophytic Vesstation
7				
8				2 - Dominance Test is >50%
0	0	- Total Cava	-	3 - Prevalence Index is ≤3.0
			0	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:	<u> </u>	
Herb Stratum (Plot size:) 1. Panicum dichotomiflorum	50	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Smilax rotundifolia	5	No	FAC	Definitions of Four Vegetation Strata:
3.				The All Alexandra and Alian and Alian (7.0 and) and
4.				nee – woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
5				height.
6				Sepling/Shuth Woody plants evaluating vince loss
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11	<u> </u>			height.
12		·······		
07.0	55	= Total Cove	r 44	
50% of total cover:	20% of	total cover:	TI	
Woody Vine Stratum (Plot size: 30)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cove	r	Vegetation
50% of total cover: 0	20% of	total cover:	0	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	w)	-		
	vv).			

Profile Desc	ription: (Describe to	o the dep	th needed to docun	nent the in	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture R	emarks
0-8	2.5 Y 3/2	98	10 YR 3/3	2	С	PL	SL	
8-16	10 YR 6/1	97	10 YR 6/6	3	С	PL	SL	
				. <u> </u>				
				·				
				·				
¹ Type: C=Co	oncentration, D=Deple	etion, RM	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL=Pore Lining,	, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless other	rwise note	d.)		Indicators for Problematic	: Hydric Soils":
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (L	.RR S, T, U	1 cm Muck (A9) (LRR ()
Histic Ep	bipedon (A2)		Thin Dark Su	irface (S9)	(LRR S,	T, U)	2 cm Muck (A10) (LRR	S)
Black Hi	stic (A3)		Loamy Muck	y Mineral (I	F1) (LRR -∩∖	0)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Piedmont Floodplain So	DIIS (F19) (LRR P, S, I)
Stratified	Layers (A5)		Depleted Mar	trix (F3)			Anomalous Bright Loan	ny Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F6	5) 		(MLRA 153B)	
5 cm Mu	icky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)		Red Parent Material (TI	F2)
Muck Pr	esence (A8) (LRR U)		Redox Depression	essions (F8	5)		Very Shallow Dark Surf	face (TF12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Explain in Rema	arks)
Depleted	d Below Dark Surface	(A11)	Depleted Ocl	nric (F11) (MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (LRR O, P,	3 Indicators of hydroph	ytic vegetation and
Coast P	rairie Redox (A16) (M	LRA 150	A) Umbric Surfa	ce (F13) (L	_RR P, T	, U)	wetland hydrology m	nust be present,
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)		unless disturbed or	problematic.
Sandy G	leved Matrix (S4)	-,-,	Reduced Ver	tic (F18) (N	MLRA 15	0A. 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	(A)	
Stripped	Matrix (S6)		Anomalous P	Bright Loam	ny Soils (E20) (MI R	149A 153C 153D)	
Dark Su	rface (S7) (LRR P, S ,	T, U)		ingin Louin	ly cone (20) (11210		
Restrictive I	_ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil Present? Yes	s No
Remarks:								
Hydric soil pre	esent							



Photo 1 Wetland data point wnrc008e_w facing east



Photo 2 Wetland data point wnrc008e_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: <u>^</u>	Northampton	Sampling Date: 3/27/2015		
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc008_u		
Investigator(s):	Section, Towr	ship, Range: <u>No PLSS in this a</u>	rea		
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): <u>1</u>		
Subregion (LRR or MLRA): P Lat:	36.5283124	Long: <u>-77.42351436</u>	Datum: WGS 1984		
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent slop	bes	NWI classi	fication: None		
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Yes 🔽	No (If no, explain in	Remarks.)		
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed?	Are "Normal Circumstances"	" present? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology natu	arally problematic?	(If needed, explain any answ	vers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes <u>V</u> No	Is the	Sampled Area			

Hydric Soil Present?	Yes	No 🖌	within a Wotland?	Voc		
Wetland Hydrology Present?	Yes	No 🖌		165	NO	
Remarks:						
Data point taken within a clear cut						

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)
Water Marks (B1) Oxidized Rhizospheres along Living F	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? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🔽 Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Ltions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	Ltions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	Ltions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	Letions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	Letions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L tions), if available:
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No wetland hydrology present	L ctions), if available:

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

Sampling Point: <u>wnrc008_u</u>

30	Absolute Domin	ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	<u>% Cover</u> Speci	ies? <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2			Total Number of Dominant
3			Species Across All Strata:3 (B)
4			
5			That Are OBL, FACW, or FAC:66.66666666666666666666666666666
6	<u> </u>		Prevalence Index worksheet:
7	<u> </u>		Total % Cover of: Multiply by:
8			OBL species 0 $x = 0$
0	= Total	Cover	EACW species $\frac{80}{x^2} = \frac{160}{x^2}$
50% of total cover:	20% of total co	over:	EAC species 5 x 3 = 15
Sapling/Shrub Stratum (Plot size: 15)		540	$\frac{20}{20} \times 4 = \frac{80}{20}$
1. Liquidambar styraciflua	5 Yes	FAC	$\frac{1}{1} \frac{1}{1} \frac{1}$
2			$\frac{105}{105}$
3	·		Column Totals: (A) (B)
4	. <u> </u>		Prevalence Index = B/A =2.42
5.	·		Hydrophytic Vegetation Indicators:
6	·		1 - Rapid Test for Hydrophytic Vegetation
7			✓ 2 - Dominance Test is >50%
8			\checkmark 3 - Prevalence Index is ≤3.0 ¹
	5 = Total	Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:2.5	20% of total co	over: 1	
Herb Stratum (Plot size: 5)			¹ Indicators of hydric soil and wetland hydrology must
1. Panicum dichotomiflorum	80 Yes	FACW	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	20 Yes	FACU	Definitions of Four Vegetation Strata:
3			Tree Weedy plants, excluding vines, 3 in (7.6 cm) or
4.			more in diameter at breast height (DBH), regardless of
5.			height.
6.			Sanling/Shrub – Woody plants, excluding vines, less
7			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			
9			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10			Woody vine – All woody vines greater than 3.28 ft in
11			height.
12			
	<u>100</u> = Total	Cover	
50% of total cover: 50	20% of total co	over: 20	
Woody Vine Stratum (Plot size:30)			
1			
2			
3.			
4.			
5			Hedrophed's
· ·	0 = Total	Cover	Hydrophytic Vegetation
50% of total covor: 0	= 10tar		Present? Yes <u>V</u> No
Demorkey (If cheened list rearchele size i adoptetions half			
Remarks: (IT observed, list morphological adaptations belo	w).		

Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	2.5 YR 4/3	100					LS			
8-16	2.5 Y 6/3	100		·	<u> </u>		LS			
				·						
				· ·						
				<u> </u>						
	<u> </u>									
¹ Type: C=C	Concentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Lini	ng, M=Matrix	κ.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless other	wise note	d.)		Indicators for	or Problema	atic Hydric S	Soils ³ :
Histoso	l (A1)		Polyvalue Be	low Surfac	e (S8) (L	RR S, T, U) 1 cm Mu	ck (A9) (LR	R 0)	
Histic E	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Mu	ck (A10) (LF	RR S)	
Black ⊢	listic (A3)		Loamy Mucky	y Mineral (F	=1) (LRR	0)	Reduced	I Vertic (F18) (outside N	ILRA 150A,B)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		Piedmon	t Floodplain	Soils (F19)	(LRR P, S, T)
<u>Stratifie</u>	ed Layers (A5)		Depleted Mat	rix (F3)			Anomalo	us Bright Lo	amy Soils (F	-20)
Organio	Bodies (A6) (LRR P,	T, U)	Redox Dark S	Surface (F6	3)		(MLRA	(153B)		
5 cm M	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface ((F7)		Red Pare	ent Material	(TF2)	
Muck P	resence (A8) (LRR U)		Redox Depre	ssions (F8)		Very Sha	allow Dark S	urface (TF1	2)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (E	xplain in Re	marks)	
Deplete	ed Below Dark Surface	(A11)	Depleted Och	nric (F11) (I	MLRA 1	51)		•	,	
Thick D	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (, LRR O, P, ⁻	T) ³ Indicat	ors of hydro	phytic veget	ation and
Coast F	Prairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (L	RR P, T	, U)	wetla	nd hydrolog	y must be pr	esent,
Sandy I	Mucky Mineral (S1) (L	RR 0, S)	Delta Ochric	(F17) (MLF	RA 151)		unles	s disturbed	or problemat	ic.
Sandy	Gleved Matrix (S4)		Reduced Ver	tic (F18) (N	ILRA 15	0A, 150B)				
 Sandv I	Redox (S5)		Piedmont Flo	odplain So	ils (F19)	(MLRA 149	ĐA)			
Strippe	d Matrix (S6)		Anomalous B	right Loam	v Soils (I		, A 149A. 153C. 1	53D)		
Dark St	urface (S7) (LRR P, S,	T. U)			, (·		,,,.	,		
Restrictive	Layer (if observed):									
Туре:										
Depth (ir	nches):						Hydric Soil P	resent?	res	No 🖌
Remarks:							1			
No hydric so	il present									
-	•									



Photo 1 Upland data point wnrc008_u facing east



Photo 2 Upland data point wnrc008_u facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: N	lorthampton	Sampling Date: <u>3/27/2015</u>
Applicant/Owner: DOMINION		State: NC	Sampling Point: wnrc009f_w1
Investigator(s): Team C	Section, Town	ship, Range: <u>No PLSS in this a</u>	area
Landform (hillslope, terrace, etc.): Drainage	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): 2
Subregion (LRR or MLRA): P	at: <u>36.5267429</u>	Long: <u>-77.42052971</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent sl	opes	NWI class	ification: None
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes _	No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrology si	gnificantly disturbed?	Are "Normal Circumstances	s" present? Yes 🗹 No
Are Vegetation, Soil, or Hydrology na	aturally problematic?	(If needed, explain any ans	wers in Remarks.)
SUMMARY OF EINDINGS Attach site man	showing compling	noint locations transpo	ts important fasturas ata

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>✓</u> No Yes <u>✓</u> No Yes <u>✓</u> No	Is the Sampled Area within a Wetland? Yes <u></u>
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)
Primary Indicators (minimum of one is required; check all that apply) ✓ Surface Water (A1)	 Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes	Wetland Hydrology Present? Yes <u>V</u> No
Remarks: Wetland hydrology present. Recent heavy rains have made the water levels higher than	normal.

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

Sampling Point: wnrc009f_w1

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	60	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Deminant
3.				Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species
5			·	That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				$\frac{1}{10000000000000000000000000000000000$
	60	= Total Cov	er	$\begin{array}{c} \text{OBL species} \\ \hline 55 \\ \hline 110 \\ \hline \end{array}$
50% of total cover:30	20% of	total cover:	12	FACW species $200 \times 2 = 100$
Sapling/Shrub Stratum (Plot size: 15)				FAC species $33 = 133$
1 Magnolia virginiana	10	Yes	FACW	FACU species x 4 =
o llex opaca	5	Yes	FAC	UPL species $0 x 5 = 0$
2				Column Totals: 125 (A) 310 (B)
3				()
4				Prevalence Index = B/A =2.48
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydronhytic Vegetation
7.				2 Deminance Test is >50%
8				
0	15	- Total Cav		\checkmark 3 - Prevalence Index is $\leq 3.0^{\circ}$
75			3	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size:5)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	40	Yes	FACW	be present, unless disturbed or problematic.
2. Juncus effusus	5	No	OBL	Definitions of Four Vegetation Strata:
3. Carex grayi	5	No	FACW	
1				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
r				height.
5				
6	<u> </u>		<u> </u>	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.				We a tradition Allowed the first and the there 0.00 ft in
11				woody vine – All woody vines greater than 3.28 ft in
12				neight.
12				
	50	= Total Cov	er	
50% of total cover: 25	20% of	total cover:	10	
Woody Vine Stratum (Plot size: 30)				
1				
2				
3				
4				
5			. <u> </u>	Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL

Profile Desc	cription: (Describe to	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features	5			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	2.5 Y 4/1	97	2.5 Y 4/4	3	С	PL	SL	
				·				
				·				
						<u> </u>		
1			De duce e d Matrice M		0		21	
Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, Ma	S=Masked	Sand Gra	ains.	Location:	PL=Pore Lining, M=Matrix.
Hydric Soli	indicators: (Applica	DIE to all	LRRS, unless other	wise note	ea.)		Indicators	for Problematic Hydric Solis :
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) (L	RR S, T, U) 1 cm N	luck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Su	irface (S9)	(LRR S,	T, U)	2 cm N	luck (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral ((F1) (LRR	0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anoma	llous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLF	(A 153B)
5 cm Mi	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dai	rk Surface	(⊢7)		Red Pa	arent Material (1F2)
Muck Pr	resence (A8) (LRR U)		Redox Depre		3)		Very S	hallow Dark Surface (TF12)
1 cm Mu	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Explain in Remarks)
Deplete	d Below Dark Surface	(A11)	Depleted Ocl	nric (⊢11)	(MLRA 1:	51) 	- 3,	
	ark Surface (A12)		Iron-Iviangan		es (F12) (i) indic	ators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (M	LRA 150A	A) Umbric Surfa	ice (F13) (, U)	wet	land hydrology must be present,
	Mucky Mineral (S1) (Li	R 0, S)	Deita Ochric	(F17) (NIL	.RA 151)		unie	ess disturbed or problematic.
Sandy C	Sleyed Matrix (S4)		Reduced Ver	τις (F18) (UA, 150B)		
Sandy F	Redox (S5)			odpiain S	olis (F19)		9A) A 440 A 4500	4520)
Stripped		T 11	Anomalous E	sright Loar	ny Solis (I	-20) (IVILR)	A 149A, 153C,	, 153D)
Dark Su	Inace (57) (LRR P, 5,	1, 0)					T	
Restrictive	Layer (If observed):							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes <u>V</u> No
Remarks:								
Hydric soil pr	esent							



Photo 1 Wetland data point wnrc009f_w1 facing northwest



Photo 2 Wetland data point wnrc009f_w1 facing southeast

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: <u>ACP</u>	City/County: North (sm pton Sampling Date: 4/7/15
Applicant/Owner: Dominion	State: NC Sampling Point: WNrC009e_W
Investigator(s): ESI (Roper. Turn bull)	Section, Township, Range: _ <u>MOMP</u> .
Landform (hillslope, terrace, etc.): drain a al	Local relief (concave, convex, none): CONLAVE Slope (%): 2-5
Subregion (LRR or MLRA): LR P Lat: 36	52710 Long: -77, 42089 Datum: W6584
Soil Map Unit Name: Goldsbord Sandylam, 0-2	1. SLOPEDY NWI classification: PEM
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 significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks)
SUMMARY OF FINDINGS - Attach site map showing	a sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: remarks: remarks:	Is the Sampled Area within a Wetland? Yes <u>No</u>
Clear-cut, dataform for emerge upland form with which 009. rain within 24/hrs.	with whice oug
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1) Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizospi Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Other (Explain in F Iron Deposits (B5) Other (Explain in F Ipundation Visible on Aerial Imagery (B7)	I3) 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) Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Mater-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inchest Vater Table Present? Water Table Present? Yes No Depth (inchest Vater Vater Table Present? Saturation Present? Yes No Depth (inchest Vater Va	s): <u>2</u> s): <u>5urfau</u> s): <u>5urfau</u> Wetland Hydrology Present? Yes <u>No</u> tos, previous inspections), if available:
Remarke:	
Changed to wnrc009f_w2 because south recently logged.	hern portion of the wetland appears to have been

merge WNRCOOg/WNRpase

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

Sampling Point: Wnrc009e_w

	Absolute Dominant Indicator	Dominance Test worksheet:
Iree Stratum (Plot size: DOFF ROOT)	<u>% Cover Species? Status</u>	Number of Dominant Species
1. <u>none</u>		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, FACVV, of FAC:OO (AVB)
7	· ······	Prevalence Index worksheet:
· · · · · · · · · · · · · · · · · · ·	·	Total % Cover of: Multiply by:
8		OBI spacies v1=
١	= Total Cover	
50% of total cover:	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 304 x 304)		FAC species x 3 =
1. <u>none</u>		FACU species x 4 =
2.		UPL species x 5 =
3		Column Totals: (A) (B)
A		
4	· · · · · · · · · · · · · · · · · · ·	Prevalence Index = B/A =
5	·	Hydrophytic Vegetation Indicators:
6		1, Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		\square 3 - Prevalence Index is <3.0 ¹
	👌 = Total Cover	
50% of total cover	20% of total cover	
Herb Stratum (Blot aize: 30-4-x304-)		
The disc of former	in N mai	Indicators of hydric soil and wetland hydrology must
1. JUNIAR ENOSOS		be present, unless disturbed or problematic.
2. Luowigia alternitulia		Definitions of Four Vegetation Strata:
3. Dichanthelium ocuminatum	10 N PHC	Tree – Woody plants, excluding vines 3 in (7.6 cm) or
4. Enndinavia gigantea	10 N FACH	more in diameter at breast height (DBH), regardless of
5. Liquidambar Shiraciflua	10 N FAC	height.
6.		Conting/Charles Mandu alante avaluating vines loss
7		than 3 in, DBH and greater than 3 28 ft (1 m) tali
o		
0		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		Woody vine – All woody vines greater than 3.28 ft in
11		height.
12		
	<u> </u>	
50% of total cover: 27	5 20% of total cover: 11	
Woody Vine Stratum (Plot size: 30 Ftx 30 Ft		
1 hone		
2		
3		
4		
5		Hydrophytic
	0 = Total Cover	Vegetation /
50% of total cover:	20% of total cover:	Present? Yes No
Demotion (If also annual list merchals signal advecting		
Remarks: (If observed, list morphological adaptations be	llow).	
clear cut		
Changed to	o WNRC009f_w due to a	southern portion of wetland
heing recer	thy logged	-
l l	itty logged.	
	niy logged.	

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SOIL

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) Color (moist) % ()- \D\V\D_3] Volume Remain (moist) % Type1 Loc2 Texture Remain (moist)	
$(1 - \sqrt{2})$ $(1 - \sqrt{2})$ $(2 $	
INTERNAL AND	arks
<u>6-20</u> 2.514/ 100 Sard	
	······
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=	Matrix.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hy	dric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histosol (A1) This Back Surface (S8) (LRR S, T, U) I cm Muck (A9) (LRR O)	
Histic Epipedon (A2) Inin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)	
Loanly Wocky Willelai (F1) (LRR O) Reduced Venic (F18) (outs Hydrogen Sulfide (A4)	SIDE MLRA 150A,B)
Stratified Lavers (A5)	(F19) (LRR P, S, 1)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)	JUIIS (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	
Muck Presence (A8) (LRR U)	(TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks))
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12)	vegetation and
Coast Praine Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must	be present,
Sandy Mucky Wineral (ST) (LKR O, S) Delta Ocnric (F17) (MLRA 151) unless disturbed or prot	olematic.
Sandy Refox (S5)	
Anomalous Bright Loamy Soils (F20) (MLRA 149A 153C 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Туре:	,
Depth (inches): Yes	No
Remarks:	
fer .	

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WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: N	lorthampton	Sampling Date: 3/27/2015
Applicant/Owner: DOMINION		State: NC	_ Sampling Point: wnrc009_u
Investigator(s):	Section, Town	ship, Range: <u>No PLSS in this a</u>	rea
Landform (hillslope, terrace, etc.): Slight slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): 2
Subregion (LRR or MLRA): P L	at: <u>36.52685803</u>	Long: <u>-77.42039473</u>	Datum: WGS 1984
Soil Map Unit Name: Bonneau loamy sand, 0 to 6 percent s	lopes	NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed?	Are "Normal Circumstances	" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology n	aturally problematic?	(If needed, explain any answ	vers in Remarks.)
	ah awing a anguling	noint locations transport	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✔ Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No 🖌
Remarks:					

HYDROLOGY

Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required	d; check all that apply)	<u> </u>	Surface Soil Cracks (B6)
Surface Water (A1)	_	Sparsely Vegetated Concave Surface (B8)	
High Water Table (A2)	_	Drainage Patterns (B10)	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	_	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres along Living F	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? Yes No	o _ 🖌 Depth (inches):		
Water Table Present? Yes No	o 🖌 Depth (inches):		
Saturation Present? Yes No	o 🖌 Depth (inches):	Wetland Hy	/drology Present? Yes No
(includes capillary fringe)		tione) if eveil	
Describe Recorded Data (stream gauge, moni	itoring well, aerial photos, previous inspec	tions), if availa	able:
Remarks:			
No hydrology present			

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

Sampling Point: <u>wnrc009_u</u>

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species
1. Pinus taeda	10	Tes		That Are OBL, FACW, or FAC: 2 (A)
2. Lindendron tulipirera	10	INO	FACU	Total Number of Dominant
3				Species Across All Strata: 2 (B)
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:
	70	= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 35	20% of	total cover.	14	FACW species $0 x 2 = 0$
Sanling/Shrub Stratum (Plot size: 15)				FAC species $\frac{75}{x 3} = \frac{225}{x 3}$
<u>depinitional ottatam</u> (not size:) 1 //ex opaca	15	Yes	FAC	FACU species $10 x 4 = 40$
1. <u></u>				UPL species $0 \times 5 = 0$
2				Column Totals: 85 (A) 265 (B)
3			·	()
4				Prevalence Index = B/A =3.11
5				Hydrophytic Vegetation Indicators:
6				1 - 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: 7.5	20% of	total cover:	3	
Herb Stratum (Plot size: 5)				The discharge of the data and the discussion of the discussion of the
1				he present unless disturbed or problematic
				Definitions of Four Vegetation Strates
2			·	Demitions of Four vegetation Strata.
3			<u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5			<u> </u>	neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				We duying All words vince greater than 2.29 ft in
11.				height
12				
	0	= Total Cov	or	
50% of total covery 0	200% of		0	
	20% 01	total cover.		
Woody Vine Stratum (Plot size:)				
1				
2		·		
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover: 0	20% of	total cover:	0	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	W)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the in	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix		Redox	k Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-3	2.5 Y 4/3	100					S	
3-7	2.5 Y 4/4	100					S	
7-16	2.5 Y 5/4	100					S S	
								_
								—
								_
¹ Type: C=C		etion RM=R	educed Matrix MS	=Masked	Sand Gr	ains	² Location: PL=Pore Lining M=Matrix	
	Indicators: (Applica	ble to all L	RRs. unless other	wise note	d.)	unio.	Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (L	RR S, T, U) 1 cm Muck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm Muck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Mucky	/ Mineral (I	F1) (LRR	0)	Reduced Vertic (F18) (outside MLRA 150A	ι,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F	-2)		Piedmont Floodplain Soils (F19) (LRR P, S,	T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			Anomalous Bright Loamy Soils (F20)	
Organic	Bodies (A6) (LRR P.	T. U)	Redox Dark S	Surface (F6	3)		(MLRA 153B)	
5 cm Mi	icky Mineral (A7) (LR	R P. T. U)	Depleted Dar	k Surface	(F7)		Red Parent Material (TF2)	
Muck Pr	esence (A8) (I RR U)	, , , , ,	Redox Depre	ssions (F8	3		Very Shallow Dark Surface (TE12)	
1 cm Mi	ick (A9) (I RR P T)		Marl (F10) (I	BR II))		Other (Explain in Remarks)	
T chi Mc	d Below Dark Surface	(A11)		ric (E11)		51)		
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	s (F12) (LRR 0, P,	T) ³ Indicators of hydrophytic vegetation and	
Coast P	rairie Redox (A16) (M	LRA 150A)	Umbric Surfa	ce (F13) (L	RR P. T	. U)	wetland hydrology must be present.	
Sandy M	Aucky Mineral (S1) (I	RR O.S)	Delta Ochric	(F17) (MI F	RA 151)	, -,	unless disturbed or problematic	
Sandy G	leved Matrix (S4)		Reduced Ver	tic (F18) (N	MI RA 15	0A 150R)		
Sandy 5	edox (S5)		Piedmont Flo	odolain So	ile (F19)	(MI RΔ 14	۹۵	
Oundy N	Matrix (S6)			right Loam	N Soile (Δ. 1/0Λ 153C 153D)	
Outpped	rfaaa (87) /I PP P S	T IN		ngni Luan	iy 3013 (1		A 143A, 1330, 133D)	
Dark Su	aver (if cheerved)	1, 0)					1	
	Layer (il observeu).							
Туре:								
Depth (in	ches):						Hydric Soil Present? Yes No	
Remarks:								
No hydric soil	present							



Photo 1 Upland data point wnrc009_u facing south



Photo 2 Upland data point wnrc009_u facing north

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: No	thampton	Sampling Date: 7/8/15
Applicant/Owner: Dominion		State NC	Sampling Point Whrp 020f-4
Investigator(s): FSI-K. Markham, K. Mulphie	Section Township		Company i one
andform (hillslone terrace etc.): Terrace	Local relief (concav		V. Clong (%): 0-2
Subracion (IRB or MLPA): LRR P	52689	Lang -77, 4178	$\frac{1}{1} \qquad \text{Stope}(70). \\ \frac{1}{1} \qquad \frac{1}{1} $
Soil Man Unit Name: BOD OPAGE LUAMS Sond	<u> </u>	_ Long,	0F0
An elimetic (hudeback conditions of the site facility for			
Are climatic / hydrologic conditions on the site typical for this time	oryear? Yes N	0 (If no, explain in F	emarks.)
Are Vegetation, Soil, or Hydrology signification	antly disturbed? A	re "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology natural	y problematic? (I	f needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling poir	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes V Wetland Hydrology Present? Yes No	Is the Samp within a We	iled Area tland? Yes	No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ar	oply)	Surface Soi	Cracks (B6)
Surface Water (A1)	a (B13) (B46) (LBB U)	Sparsely Ve	getated Concave Surface (B8)
Saturation (A3)	(B13) (LKK 0) fide Odor (C1)		ines (B16)
Water Marks (B1)	ospheres along Living R	oots (C3) Dry-Seasor	Water Table (C2)
Sediment Deposits (B2)	Reduced Iron (C4)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	eduction in Tilled Soils (C6) Saturation	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	rface (C7)	Geomorphi	Position (D2)
Dundation Visible on Aerial Imageny (B7)	n in Remarks)	Shallow Aq	uitard (D3)
Water-Stained Leaves (B9)			moss (D8) (LRR T. U)
Field Observations:			
Surface Water Present? Yes No Depth (ir	nches): NA		
Water Table Present? Yes No Depth (ir	nches): 720		
Saturation Present? Yes Ves Depth (ir (includes capillary fringe)	nches): 16"	Wetland Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspec	tions), if available:	
Remarks:			
			1

Sampling Point: Wnrp 020 f-W

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

Page V Jage	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: $\mathcal{DFT}, \mathcal{X}, \mathcal{DFT}$)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. PINUS TAREA		<u> </u>	HAC .	That Are OBL, FACW, or FAC: (A)
2. Lianizambar Styraciflua	<u> </u>	<u>N_</u>	FAC	Total Number of Dominant
3				Species Across All Strata: (B)
4				
5				That Are OBL FACIN or FAC:
6				
7.	<u> </u>	,		Prevalence Index worksheet:
8.				Total % Cover of:Multiply by:
	55	- Total Co		OBL species x1 =
E0% of total power: 27	5 200% of	total cover		FACW species x 2 =
Somilar (Shruh Stratum (Distaires 30) Ft X 30) Ft	2076 01	total cover		FAC species x 3 =
Saparing/Struce Stratum (Plot size: DSU / SUC)	60	V	TAC	FACU species x 4 =
1. Eliquidante signet attained	- 00	- <u></u>	<u>FAC</u>	UPL species x 5 =
2. Oxy (leror und) arboreans	<u>~~</u>	/	FACU	
3. CLETNIA alhiduid	<u></u>	<u>N</u> .	FACW	(A)(B)
4. Llex opaca	2	<u>_N</u>	FAC	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6	· · · · · · · · · · · · · · · · · · ·		<u></u>	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8			-	2 - Dominiance rearis > 50%
	84	= Total Co	ver	$\square S = \text{Prevalence index is } S = 3.0$
50% of total cover: 42	20% of	total cover	8.4	LI Problematic Hydrophytic Vegetation' (Explain)
Harb Stratum (Diat aira) 3054 X 3054	2070 01			
TL euletoris Polystris	15	$\mathbf{\nabla}$	mR1	Indicators of hydric soil and wetland hydrology must
1. TREVITERS PARASTICS				be present, unless disturbed or problematic.
2. Osmundastrum cinnamomeur	<u>, 10</u>	<u> </u>	HACW -	Definitions of Four Vegetation Strata:
3. Moodwardia aveolata	<u> </u>	<u> </u>	JAO	Tree – Woody plants, excluding vines 3 in (7.6 cm) or
4. Ciethio alnisolia	<u> </u>	<u>_N</u>	FACW	more in diameter at breast height (DBH), regardless of
5. OSMUNIO SPECTODILIS		\sim	OBL	height.
6				Sanling/Shrub Moody plants evoluting vines less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
0				Herb – All herbaceous (non-woody) plants, regardless
a				of size, and woody plants less than 3.26 it tail.
10		·		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	45	= Total Co	over	
50% of total cover: 22 .	<u>5</u> 20% o	f total cove	er: <u> </u>	
Woody Vine Stratum (Plot size: 30F1 × 308-1)				
1. NONE Present				
2		·		
2		·		
· · · · · · · · · · · · · · · · · · ·		•		
4				
5		• ••		Hydrophytic
		= Total C	оvег	Vegetation
∽50%-of-total-cover:	20%-c	of-total-cove	er:	Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			
1				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	
$\frac{(\text{inches})}{O} = \frac{\text{Color}(\text{moist})}{10} = \frac{\%}{10} = \frac{\text{Color}(\text{moist})}{10} = \frac{\%}{10} = \frac{100}{10} = \frac{100}{10$	Texture Remarks
0-1 104K312 60 104K312 38 D M	
2.54R475 2 C PL	<u>SL</u>
4-12 104R412 70 104R414 20 C M	LS
104RS/2 8 D M	5
2 SUR4/6 2 C PL	<u> </u>
12-20 1048612 00 14 9614 20 1	<u></u>
1200 100/01 2 80 104/10/11 20 C M	
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)	ل) 🛄 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2)	2 cm Muck (A10) (LRR S)
Elack Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	E Reduced Vertic (F18) (outside MLRA 150A,B)
Stratified Lavers (A5)	Anomalous Bright Learny Soils (F19) (LRR P, S, T)
Organic Bodies (A6) (LRR P. T. U)	(MI RA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TE2)
Muck Presence (A8) (LRR U)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	· · ·
Thick Dark Surface (A12)	, T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Mainx (S4) Reduced Venic (F18) (MLRA 150A, 150B) 40 A)
LEL SUUDED MAINY (S5) FL ADOMAIQUE Bright Loomy Soile (E20) (ML)	20 2000 262(1 262(1)
Dark Surface (S7) (LRR P. S. T. U)	xa 149a, 153G, 153D)
Complete Matrix (Sb) Lanomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	(A 149A, 153G, 153D)
Comparing the surface (S7) (LRR P, S, T, U)	(A 149A, 153C, 153D)
Complete Matrix (S5) Li Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soil Present? Yes No
Complete Matrix (S5) Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Learny Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soll Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Learny Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes <u>No</u>
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes <u>No</u>
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Solis (F20) (MLI Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Solis (F20) (MLI Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Solls (F20) (MLI Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Solls (F20) (MLI Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No
Anomalous Bright Loamy Soils (F20) (ML) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Hydric Soil Present? Yes No

Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp020f_w facing south.



Wetland data point wnrp020f_w facing east.

Photo Sheet 1 of 2

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	Citv/C	ounty: Northam	pton Samplir	ng Date: 7/8//5
Applicant/Owner: Dominion			State: NC Samplin	ng Point Whrp 020-4
Investigator(s): EST-K. Mark	ham, K. Murphiley Section	n Townshin Range	NA Sample	.g i onit
Landform (hillslope, terrace, etc.): <u>h</u> Subregion (LRR or MLRA): <u>LRR</u> Soil Map Unit Name: <u>Bornean</u> Are climatic / hydrologic conditions on t	Lat: 36, 52 Lat: 36, 52 Lat: 36, 52 Lat: 36, 52 Lat: 36, 52 Loang Sond he site typical for this time of year? Y	relief (concave, convex, 16 Long:	none): <u>CUNVEX</u>)7. 41.742 	Slope (%): <u>2 - 4</u> Datum: <u>WGS</u> 5 -+
Are Vegetation Soil or		ntio? (If needed a	which only ensures in Dev	
	nyorology hatti aliy problem	allor (il fieedeo, e	explain any answers in Rer	narks.)
SUMMARY OF FINDINGS – A	ttach site map showing sam	pling point locatio	ons, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No	<u>, / </u>
Remarks:	7			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (mi	nimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imag Water-Stained Leaves (B9) Field Observations:	Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar Jery (B7)	R U) C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks)	Sparsely Vegetated Drainage Patterns (E Moss Trim Lines (B1 Dry-Season Water T Crayfish Burrows (C2 Saturation Visible or Geomorphic Position Shallow Aquitard (D2 FAC-Neutral Test (D2 Sphagnum moss (D2	Concave Surface (B8) 310) 6) able (C2) 8) Aerial Imagery (C9) 1 (D2) 3) 55) 8) (LRR T, U)
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gains)	No Depth (inches): No Depth (inches): Z No Depth (inches): Z No Depth (inches): Z	Image: A gradient of the second se	Hydrology Present? Ye	es No
		·····/····//····//		
Remarks:				

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

1

The Alexandree Topper Topper	Absolute	Dominant	Indicator	Dominance Test worksheet:
P'restratum (Plot size: 300 TX SOFT)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. FINUS TOREA	01	<u> </u>	FAC	That Are OBL, FACW, or FAC:
2				Total Number of Dessingert
3.				Species Across All Strate: 5 (P)
4				
·				Percent of Dominant Species
5	<u> </u>	<u> </u>		That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksneet:
8				
	90	= Total Co	/er	OBL species x 1 =
FOR official acuses 45	2007 of	total aqua	18	FACW species x 2 =
	20% 0	total cover	· <u> </u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: SCATA SOFT)	1 <	V	F 1 4 4	
1. OKGAENOIGHT BY ODYEGHT	<u> </u>	<u> </u>	FACU	
2. <u>Quercus</u> Velutina	<u> </u>	<u>N</u>	<u>upl</u>	UPL species x 5 =
3. Ilex opaca	5	N	FAC	Column Totals: (A) (B)
+ LIEthra aloifulia	2	N	FACW	
= BUPLING Dialo	3	N	FAC	Prevalence Index = B/A =
- Liquida alante Stread He	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		Hydrophytic Vegetation Indicators:
6. LIGUICERINDAY STURFIETUR		<u> </u>	F-AC	Rapid Test for Hydrophytic Vegetation
7		<u>.</u>		2 - Dominance Test is >50%
8				$\square 3 \text{Broughange index is } < 2.01$
	37	= Total Co	ver	
FOP of total agreen 18	5 200/ 04		7.4	Problematic Hydrophytic Vegetation' (Explain)
	20% 0	r totar cover		
Herb Stratum (Plot size: 3-10 T, X 3-28 T.)	0-0	$\mathbf{\nabla}$	- 1 -	¹ Indicators of hydric soil and wetland hydrology must
1. VITIS COTOR COTOR	<u>_~</u>		1-4 C	be present, unless disturbed or problematic.
2. OSmundastrum cinnameneur	<u>r S</u>	\sim	OBL	Definitions of Four Vegetation Strata:
3. Elephantopus tomentosus	2	N	UPL	
Mitchello repeas	7		TACIA	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			PACOL	more in diameter at breast height (DBH), regardless of
5			·	neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
9			·	of size, and woody plants less than 3.28 ft tall
10		·		or size, and woody plants less than 5.20 it tall.
10.		·		Woody vine – All woody vines greater than 3.28 ft in
11		•		height.
12				
	29	= Total Co	over	
50% of total cover: 14.	5 20%	If total cove	r 5.8	
Woody Vine Statum (Distaire 305+ X2)	<u></u>			
<u>vvoody vine Stratum</u> (Piot size: <u>Source ()</u>	1<	× 1	EAC	
1. VIAS COMMERCONE	- 13-	·Y	$-\frac{(nc)}{2}$	
2. SMITAX GLAUCA	<u> </u>	<u> </u>	FAC	
3		•		
4				
F				
)				Hydrophytic
	40	_ = Total C	over	Vegetation
50% of total cover: <u>10</u>	20% (of total cove	er: <u>- 11 -</u>	Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).			
	•			
1				

t

Profile Des	cription: (Describe	to the depth r	needed to docum	nent the i	ndicator o	or confirm	the absence of inc	dicators.)
Depth	Matrix		Redox	k Features	3			
	<u>Color (moist)</u>	<u> </u>	Color (moist)	<u>%</u>	<u>Type'</u>	<u>_Loc'</u>	<u>Texture</u>	Remarks
$\frac{0-4}{11-6}$	10412312	80 10	1412 3/3	<u>- Xo</u>	<u> </u>	<u></u>	<u></u>	
4-8	IUGRS/4	60 (0	24R412	20		\underline{M}	<u>_SL</u>	
			04R414	20	a l	M	SL	
8-20	104R6/4	100	í				<u>SL</u>	
		· <u> </u>		·			······································	······································
		·		_	<u> </u>		<u></u>	
<u></u>	- <u></u>					<u> </u>		
Type: C=C	oncentration, D=Depl	letion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=F	Pore Lining, M=Matrix.
		able to all LR	Rs, unless other	wise note	30.) 22.(CR) (I		Indicators for P	Toblematic Hydric Soils":
	pipedon (A2)		Thin Dark Sur	rface (S9)		rr 5, 1, 0 T IN) 1 cm Muck ((A9) (LRR O) (A10) (LBB S)
Black H	istic (A3)		Loamy Mucky	/ Mineral ((F1) (LRR	:0)	Reduced Ve	ertic (F18) (outside MLRA 150A.B)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)	•	Piedmont FI	loodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)			Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, ປ)	Redox Dark S	Surface (F	6)		(MLRA 15	53B)
	UCKY MINERAL (A7) (EF	(R P, I, U) . N	Depleted Dar	к Suпace	(F7) ₽\		Red Parent	Material (TF2)
	uck (A9) (LRR P. T))	Marl (F10) (L	RR UI	0)			w Dark Sufface (TF12) ain in Remarks)
Deplete	d Below Dark Surface	e (A11)	Depleted Och	nric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indicators	of hydrophytic vegetation and
Coast F	Prairie Redox (A16) (N	MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	, U)	wetland I	hydrology must be present,
Sandy i	Mucky Mineral (S1) (L Gleved Matrix (S4)	_RR 0, S)	Delta Ochric Deduced Ver	(F17) (ML tio (E19) /	.RA 151) MIDA 46	0.4 46001	unless di	isturbed or problematic.
Sandy I	Redox (S5)		Piedmont Flo	odolain S	nils (F19)	(MIRA 14	94)	
Strippe	d Matrix (S6)		Anomalous B	Bright Loai	my Soils (F20) (MLR.	A 149A, 153C, 153	D)
Dark Su	urface (S7) (LRR P, S	3, T, U)						
Restrictive	Layer (if observed):							
Type:	•		_					
Depth (ir	nches):					-	Hydric Soil Pres	sent? Yes No
Remarks:								
ļ								
]								

Environmental Field Surveys Wetland Photo Page



Upland data point wnrp020_u facing east.



Upland data point wnrp020_u facing west.

Photo Sheet 2 of 2

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Nor H	ampton	Sampling Date: 7/8/15			
Applicant/Owner: DOMINION		State: NC	Sampling Point: Whrp022f-W			
Investigator(s); EST-15, Marisham, (S. Murphre	eg Section, Township, Ra					
Landform (hillslope, ferrace, etc.): Terrace	Local relief (concave)	CONVEX DODE) CONVE	1× Slope (%): 2-4			
Subregion (I BR or MI BA): LRR P 1 at 3	6.52486	-77.4060	Det Datum MGS SH			
Soil Man Unit Name: NOCEOIK (DOMY SOND			$\frac{1}{1} \text{Datum} \frac{1}{2} 1$			
Are climatic / hydrologic conditions on the site typical for this time		NVII Classi	Remarke)			
Are Verentation Soil of Hydrology contracts on the site typical for this time	orited at the day of the second se	(ii no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology signific	anny disturbed? Are	Normal Circumstances				
Are vegetation, soil, or Hydrology hatural	ly problematic? (If ne	eeded, explain any ansv	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map show	ving sampling point I	ocations, transec	s, important features, etc.			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled within a Wetla	I Area nd? Yes	No			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that an	oply)	Surface Sc	Surface Soil Cracks (B6)			
Surface Water (A1) Aquatic Fauna	a (B13)	Sparsely V	egetated Concave Surface (B8)			
High Water Table (A2) Marl Deposits	(B15) (LRR U)	🖌 Drainage F	Patterns (B10)			
Saturation (A3) Hydrogen Sul	Moss Trim	Lines (B16)				
Water Marks (B1) Oxidized Rhiz	s (C3) Dry-Seaso	n Water Table (C2)				
Sediment Deposits (B2) Presence of R	Crayfish B	urrows (C8)				
Drift Deposits (B3) Recent Iron R	eduction in Tilled Soils (C6)	Saturation	Visible on Aerial Imagery (C9)			
Algal Mat of Crust (B4) Thin Muck Su	rrace (G7)	Ceomorph	ic Position (D2)			
inundation Visible on Aerial Imageny (B7)	r in Remarks)	Shallow Ad	al Test (D5)			
Water-Stained Leaves (B9)		PAC-Neur	moss(D8)(IRRTII)			
Field Observations:	,	opiningitum				
Surface Water Present? Yes No Depth (in	iches): NA					
Water Table Present? Yes No 🔽 Depth (in	iches): ラクレ					
Saturation Present? Yes <u>V</u> No <u>Depth</u> (in (includes capillary fringe)	iches): <u>(4</u> w	etland Hydrology Pres	ent? Yes <u> </u>			
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspection:	s), if available:				
Remarks						
			1			
· · · · · ·						

2

1

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

Sampling Point: Whrp D22f-W

- and and 20ft X30ft	Absolute I	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	Number of Dominant Species -7
1. Liliodendary fulipiters	<u></u>	У	FACO	That Are OBL, FACW, or FAC: (A)
2 NUSSA Sylvatica	10	4	FAC	
allouile have thread floor		_/	-	Total Number of Dominant 🛛 🖌 🗌
3. LIGUICAMODAL SIMEACIFICAD			FAC	Species Across All Strata: (B)
4				
5				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>D770</u> (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover_of: Multiply by:
0				OBL species v1 -
-0	<u>-()</u> =	Total Cov	er _	
50% of total cover: 22	, 5 20% of t	otal cover	4	FACW species x 2 =
Sepling/Shrub Stratum (Plot cize:				FAC species x 3 =
	15	\mathbf{x}		
1. CALPINUS CATOLINIANA	<u> </u>	<u> </u>	FAC	
2. Liquidambar Styraciflua	10	\mathbf{Y}	Fre	UPL species x 5 =
2 NUSSA SUIVADIED		<u> </u>	EAC	Column Totals: (A) (B)
3. THOUSE SHIVE THE			<u></u>	
4. I LEX OFACA		<u> </u>	FAC	Prevalence Index = 8/A =
5		/		
·		v		Hydrophytic Vegetation Indicators:
6				1 -Rapid Test for Hydrophytic Vegetation
7				V 2 Dominance Testia > 500/
2				2 - Dominance rest is >50%
o			<u> </u>	3 - Prevalence Index is ≤3.0 ¹
	<u>40</u> =	Total Cov	rer	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20) 20% of t	otal cover	8	
Horb Stratum (Dist size)				
Herb Stratum (Plot size.	.6	.1	~~	¹ Indicators of hydric soil and wetland hydrology must
1. OSMUNZA SPECTABILIS		N	OBL	be present, unless disturbed or problematic.
2 Archodinaria ajacantea	10	\mathbf{v}	FACW	Definitions of Four Vegetation Strata
Athurium Asplanting		$\overline{\langle}$		o contraction of the contraction
3. ATTACIONO USPIENVOIRES	<u> </u>	<u> </u>	<u>erc</u>	Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
4. WOODWAYDIA Areolata		N	OBL	more in diameter at breast height (DBH), regardless of
\$ 5 SAGYURAS CERNUGS	5	N	OBL	height.
a what was a live in a		~)	701	
6. WOOCWARCIE VILGINICA		<u>/v</u>	050	Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9			<u></u>	•••••••••••••••••••••••••••••••••••••••
910.				
9				Woody vine – All woody vines greater than 3.28 ft in
9 10 11				Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12				Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12		Total Cov		Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12		Total Cov	/er	Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12 50% of total cover: <u>12</u>	$\frac{\pm O}{20\% \text{ of t}}$	Total Cov	/er	Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12 <u>Voody Vine Stratum</u> (Plot size:)	$\frac{40}{20\%} =$	Total Cov otal cover	/er	Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12 <u>Woody Vine Stratum</u> (Plot size:) 1) 1 Void X	$\frac{40}{5} = \frac{1}{5}$	Total Cov otal cover	rer S	Woody vine – All woody vines greater than 3.28 ft in height.
9 10 11 12 <u>Woody Vine Stratum</u> (Plot size:) 1 <u>Smilax</u> (Ofand Folio)	$\frac{40}{20\%} = \frac{20\%}{5}$	Total Cov ctal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
9	$\frac{40}{20\%} = \frac{20\%}{5}$	Total Cov ctal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
9	$\frac{\#\partial}{\partial 20\%} = \frac{1}{5}$	Total Cov dal cover	Per B FAC	Woody vine – All woody vines greater than 3.28 ft in height.
9 9 10 11 12 <u>Woody Vine Stratum</u> (Plot size:) 1. <u>Smilax</u> (Olandi EULO 2 3	$\frac{\#\partial}{\partial 20\%} = \frac{1}{5}$	Total Cov otal cover	Per 8	Woody vine – All woody vines greater than 3.28 ft in height.
9 9 10 11 12 <u>Woody Vine Stratum</u> (Plot size:) 1. <u>Smilax</u> (Plot size:) 1. <u>Smilax</u> (Plot size:) 2 3 4	$\frac{+0}{20\% \text{ of t}}$	Total Cov otal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
9	$\frac{\pm 0}{20\% \text{ of t}}$	Total Cov otal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
9	$\frac{\pm 0}{5} = \frac{5}{5}$	Total Cov otal cover		Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
9	$\frac{40}{5} = \frac{5}{5} = 5$	Total Cov otal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No
9	$\frac{40}{5} = \frac{5}{5}$	Total Cov otal cover		Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{40}{5} = \frac{5}{5}$	Total Cov otal cover y Total Cov otal cover	/er FAC //er	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{40}{5} = \frac{5}{20\% \text{ of t}}$	Total Cov otal cover y	FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{40}{5} = \frac{5}{5}$	Total Cov otal cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{\pm 0}{5} = \frac{5}{20\% \text{ of } t}$	Total Cov otal cover	rer 8	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{\pm 0}{5} = \frac{5}{20\% \text{ of t}}$	Total Cov otal cover	Per 8	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{\pm 0}{5} = \frac{5}{15} = \frac{5}{20\% \text{ of t}}$	Total Cover	PAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{\pm 0}{5} = \frac{5}{20\% \text{ of t}}$	Total Cover	FAC	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{40}{5} = \frac{5}{15}$	Total Cov otal cover	Per 3	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>
9	$\frac{40}{5} =$	Total Cov otal cover	Per 3	Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>No</u>

SOIL

Sampling Point: Whrp022f-W

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$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\frac{\frac{0-4}{4-5}}{\frac{5-8}{104}\frac{104}{104}\frac{100}{12}} \frac{100}{104}10$
$\frac{4-5}{5-8} \frac{104R5/2}{104R4/2} \frac{100}{198} \frac{104R6/2}{104R6/2} \frac{2}{2} \frac{1}{10} \frac{1}{10} \frac{51}{104} \frac{51}{104} \frac{51}{104} \frac{1}{104} \frac$
5-8 104R4/2 98 104R6/2 2 D. M SL 8-20 104R5/2 15 104R5/4 5 D M SL
8-20 104R 5/2 15 104R 5/4 5 D M SL
· · · · · · · · · · · · · · · · · · ·
¹ Type: C=Concentration D=Depletion RM=Reduced Matrix MS=Masked Sand Grains ² Location: PL =Pore Lining M=Matrix
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³
Histosol (A1) Polyvalue Below Surface (S8) (LRR S T II) 1 cm Muck (A0) (LRR O)
Histic Ebipedon (A2)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (putside MLRA 150A B)
Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2) Piedmont Floodolain Soils (F19) (LRR P. S. T)
Stratified Layers (A5)
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) Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ocnic (F1/) (MLRA 151) unless disturbed or problematic.
Sandy Gieyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Stringed Matrix (S6) Apomalous Bright Learny Soils (F19) (MLRA 149A)
Dark Surface (S7) (LRR P. S. T. U)
Restrictive Layer (if observed):
Type:
Depth (inches):
Department Injerio den riccontri res Remarks: Injerio den riccontri res
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Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp022f_w facing west.



Wetland data point wnrp022f_w facing north.

Photo Sheet 1 of 2

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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Project/Site: ACP	City/County: Nor	thampton.	-	Sampling Dat	e.7/8/15
Applicant/Owner: Dominion		State:	NC	Sampling Pol	nt: Whrp 022-4
Investigator(s); ESJ-K, Markham, K. Murphree	Section, Township	Range: NA		earripining i on	
Landform (hillstope, terrace, etc.): hillstope	Local relief (concay	(e convex none)	CONVE	* •	long (%): 2-4
Subregion (LRR or MLRA): LRR P Lat: 30	5,52482	Long: -77	1.40.59	6	$\frac{1000}{1000} \frac{1000}{1000} $
Soil Man Unit Name: NONFOIK LOOMA SONA			li A/L olonoifio	tion	
Are climatic / hydrologic conditions on the site typical for this time of	fiverr? Ver		www.cidssiiica	411011: <u> </u>	
Are Vegetetion Soil or the site typical of this time of	tyearriesN	0 (it no,	explain in Ri	emarks.)	
Are Vegetation, Sol, or Hydrology significat		tre "Normal Circu	mstances" p	resent? Yes	No
Are vegetation, Soli, or Hydrology naturally	problematic? (it needed, explair	any answei	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ing sampling poin	nt locations, f	transects	important	features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	Is the Sam	oled Area etland?	Yes	No	
HYDROLOGY					
Wetland Hydrology Indicators:		Seco	ndary Indica	tors (minimum	of two required)
Primary Indicators (minimum of one is required; check all that app	<u>(p)</u>		Surface Soil	Cracks (B6)	
High Water Table (A2)	(813) R15) (LBR II)		Sparsely Veç Draina av Day	etated Conca	ve Surface (B8)
Saturation (A3)	de Odor (C1)	Ħ	Moss Trim Li	nes (B16)	
Water Marks (B1) Oxidized Rhizo	spheres along Living F	toots (C3) 🗍	Dry-Season	Nater Table (C2)
Sediment Deposits (B2)	educed Iron (C4)		Crayfish Bur	ows (C8)	
Drift Deposits (B3)	duction in Tilled Soils ((C6)	Saturation V	sible on Aeria	I Imagery (C9)
Algal Mat or Crust (B4)	face (C7)	<u> </u>	Geomorphic	Position (D2)	
	in Remarks)		Shallow Aqu	tard (D3)	
Water-Stained Leaves (B9)		H	Sohannum n	nest (D5) noss (D8) (LR	BT II)
Field Observations:					
Surface Water Present? Yes No Depth (inc	hes): <u>NA</u>				
Water Table Present? Yes No Depth (inc	thes): 72011				
Saturation Present? Yes No Depth (inc (includes capillary fringe)	thes): 720 "	Wetland Hydro	ology Presei	nt? Yes	No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspec	tions), if available	:	· · ·	
Remarks:		· · · · · · · · · · · · · · · · · · ·			
L					

Sampling Point: Whrp 022-u

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

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7261735	Absolute	Dominant	Indicator	Dominance Test worksheet:
Iree Stratum (Plot size:)USTA 3001)	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species
1. Divocención Tunfidera	20	<u> </u>	FUCU	That Are OBL, FACW, or FAC: (A)
2			<u> </u>	Total Number of Dominant
3	<u> </u>	<u></u> ,		Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66 10 (A/B)
6		<u> </u>	<u></u>	
7				Prevalence index worksheet:
8				Total % Cover of:Multiply by:
	50	= Total Cov	/er	OBL species x 1 =
50% of total cover: _ス 5	20% o	f total cover	\mathcal{O}	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 Ft X 30 Ft)				FAC species x 3 =
1. Carpinus cardiniana	10	Y	FAC	FACU species x 4 =
2 Liviodendron tuipisera	20	V	FACCA	UPL species x 5 =
3 Liguidambar Sturacifina	10	$\overline{4}$	FAC	Column Totals: (A) (B)
I FIRX OPACA	10	$-\frac{1}{\sqrt{2}}$	E+(
			1770	Prevalence Index = B/A =
8:	·		·······	Hydrophytic Vegetation Indicators:
		· <u> </u>		Rapid Test for Hydrophytic Vegetation
· · · · · · · · · · · · · · · · · · ·		·		2 - Dominance Test is >50%
8		·		3 - Prevalence Index is ≤3.0 ¹
		, ≍ Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	<u> </u>	f total cover	: 10	
Herb Stratum (Plot size: 308+ X308+)	~	١.	<i>.</i>	¹ Indicators of hydric soil and wetland hydrology must
1. Parathey/1pteris noveborace	<u>535</u>	<u> </u>	FAC	be present, unless disturbed or problematic.
2 BOTYPUS Virginianus	2	<u> </u>	FACY	Definitions of Four Vegetation Strata:
3				
4				more in diameter at breast height (DBH) regardless of
5.				height.
6.				Sanling/Shrub Maadu nighta avaluding vines lang
7	<u> </u>		· <u> </u>	than 3 in, DBH and greater than 3.28 ft (1 m) tall.
8				
0			• •	Herb – All herbaceous (non-woody) plants, regardless
10				or size, and woody plants less than 3.26 it tail.
			· <u> </u>	Woody vine - All woody vines greater than 3.28 ft in
11			·	height.
, 12,	- <u> </u>			
	~—	= Total Co	ver	······
50% of total cover: 3	<u> </u>	of total cove	r: <u>1, T</u>	
Woody Vine Stratum (Plot size: 2084 X 2084,)	2		-10	
1. VITIS VOTUNDIFOLIA		- <u> </u>	FAC	
2. Smitax rotunditolla	2_		FAC	
3				
4				
5.	,			
	5	= Total Co	ver	Vegetation
50% of total cover: 2	.5 20%	of total cove		Present? Yes No No
Bomarke: (If absorved, list membelogical adaptations be	- 2070		<u> </u>	•
Tremares. (il ubserved, list morphological adaptations be	iuwj.			
				,

SOIL

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Sampling Point: Why p022-u

Profile Description: (Describe to the depth i	needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	—
$\frac{1}{\Delta - \Psi} = \frac{1}{1} \frac{1}{2} \frac{1}{2$	COLOF (MOIST) % IVPE' Loc2	Remarks
$\frac{0}{10} \frac{1}{10} \frac{100}{100} \frac{1}{100} \frac{100}{100} - \frac{100}{100} \frac{1}{100} \frac{1}{100$		
<u>4-16 106R4/3 (00</u>	· · · · · · · · · · · · · · · · · · ·	Fine SL
16-20 104R 5/4 100		Fine SL
		······································
		······································
		······································
¹ Type: C=Concentration, D=Depletion, RM=Re	duced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U)) 1 cm Muck (A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sullide (A4)	Loamy Gleyed Matrix (F2)	L Piedmont Floodplain Soils (F19) (LRR P, S, T)
Organic Bodies (A6) (LRR P. T. II)	Bedoy Dark Surface (E6)	
5 cm Mucky Mineral (A7) (LRR P. T. U)	Depleted Dark Surface (F7)	Red Parent Material (TE2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	,
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Bedox (S5)	Piedmont Elondalain Soils (E19) (MI RA 140	QA)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR)	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Туре:	_	
Depth (inches):	<u> </u>	Hydric Soil Present? Yes No
Remarks:		
3		
i i i i i i i i i i i i i i i i i i i		

Environmental Field Surveys Wetland Photo Page



Upland data point wnrp022_u facing southeast.



Upland data point wnrp022_u facing northeast.
WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: <u>ACP</u>	City/County: Northampton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: WAR p 012 f-w
Investigator(s): ESI (Loper, Turnbull)	Section, Township, Range: NDNC
Landform (hillstope, terrace, etc.):	Local relief (concave, convex, none); CONCAVE Slope (%): Z-5
Subregion (LRR or MLRA): LRR P Lat: 36.5	52489 Long: -77,40109 Datum: W6684
Soil Map Unit Name: Wehadkee loam, freewen	Hy flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no explain in Remarks)
Are Vegetation Soil or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology naturally pro	ablematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
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)
Aquatic Fauna (B1)	3) Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Di (LRR U) Drainage Patterns (B10)
Water Marks (B1)	peres along Living Roots (C3) \Box Dry-Season Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	3 (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	si: NA
Water Table Present? Yes Vo Depth (inches	s): 18
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes No
(includes capillary fringe)	tos, previous inspections), if available:
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:	

Sampling Point: whrp 012f.w)

Trac Stratum (Platainer 20th x 30ft)	Absolute	Dominant	Indicator	Dominance Test worksheet:
(Drawn had been had	% Cover	Species?	Status T.D.C	Number of Dominant Species
1. PINUS FILE dia	40	<u> </u>	PhC	That Are OBL, FACW, or FAC: (A)
2. Afcer rubrum	<u></u>	<u> </u>	I-A-C	Total Number of Dominant
3. LIEX OPACA		<u>_N</u>	FAC	Species Across All Strata: (B)
4				Porcent of Demission Demission
5				That Are OBL EACW or EAC: \DO (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	70	- Total Ca		OBL species x 1 =
50% -51-1-1				FACW species x 2 =
	20% 0	r total cover	: <u> </u>	FAC species x 3 =
Saping/surub Stratum (Plot size: <u>JOPPT XJOTT</u>)	74	S 1	CAA	FACII species y 4 =
1. HEEV TOUTUM	-20	<u> </u>	<u>rrr</u>	
2Hex opala	$\frac{10}{10}$	<u> </u>	<u><u>r</u><u>H</u><u>C</u></u>	
3. Liquidambur styracitua		<u> </u>	PAC	(A)(B)
4. <u> </u>				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators
6				A Panid Tapt for Hydronbytic Mandallis
7				
8.				2 - Dominance Test is >50%
	40	= Total Co	lor	I I 3 - Prevalence Index is ≤3.0'
EON of total aguar 21	2 200/ 0	- Total OU	. Q	Problematic Hydrophytic Vegetation' (Explain)
Heat Strategy (Direction of College Co	<u>~</u> 20% 0	i total cover	- <u> </u>	
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1. <u>non-c</u>	·	·		be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vince 2 in (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sanling/Shrub Woody plants avaluating vines loss
7				than 3 in, DBH and greater than 3.28 ft (1 m) tall
8		•		
0				Herb – All herbaceous (non-woody) plants, regardless
9		•	• •••••	of size, and woody plants less than 3.28 ft tall.
10			· ·····	Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12			-	
	0	= Total Co	ver	
50% of total cover:	20% d	of total cove	r:	
Woody Vine Stratum (Plot size: <u>30ft x 30ft</u>)				
1. Smilax rotunditolia	20	Y	FAC	
2			-	
3				
· · · · · · · · · · · · · · · · · · ·	-			
*•				
5		-		Hydrophytic
		_ = Total Co	over	Vegetation
50% of total cover:	2 20%	of total cove	er:	resentr res v No
Remarks: (If observed, list morphological adaptations bel	ow).			

Sampling Point: whrpui24....

Depth	Matrix		Redo	x Features				ullatoro.j	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5	2.514/2	100					<u>_5L</u>	· · · · · · · · · · · · · · · · · · ·	
<u>5- 8</u>	2.545/1	loD					56		
8-20	2.5451	90	IDYR 4/10	10	(PL	SL		<u> </u>
	<u></u>								<u></u>
						,			
	·						· · · · · · · · · · · · · · · · · · ·		
						<u> </u>			
			A. W. C. W. C.						
¹ Type: C=C	oncentration, D=Dep	oletion, RM=1	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=	Pore Lining, M=Mat	rix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)		Indicators for I	Problematic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue B	elow Surfac	ce (S8) (L	.RR S, T, U)	1 cm Muck	(A9) (LRR O)	
	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)	2 cm Muck	(A10) (LRR S)	
	ISUC (A3) on Sulfido (A4)			(y Mineral (F1) (LRF	(0)		erlic (F18) (outside	MLRA 150A,B)
	d Lavers (A5)		Denleted Ma	eu Mainx (i atrix (E3)	-2)			-locopialn Solis (F19 Bright Loamy Spile	9) (LRR P, S, T)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		/MLRA 1	53B)	(120)
🗍 5 cm Mi	ucky Mineral (A7) (Ll	RR P, T, U)	Depleted Da	ırk Surface	(F7)		Red Paren	t Material (TF2)	
Muck Pi	resence (A8) (LRR l))	Redox Depr	essions (F8	3)		Uery Shallo	w Dark Surface (TF	12)
1 cm Mi	uck (A9) (LRR P, T)		Mari (F10) (LRR U)			U Other (Exp	lain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)		chric (F11)	(MLRA 1	51) 			
	ark Surface (A12) Prairie Redoy (A16) (I	MI PA 150A	I Iron-Mangai	1ese Masse aco (E13) (38 (F12) 1 0 0 0 1	(LRR 0, P, - 1 10	 Indicator wettend 	s of hydrophytic veg	etation and
Sandy M	Mucky Mineral (S1) (LRR 0. S)	Delta Ochric	203 (F17) (ML	RA 151)	, 0)	unless (disturbed or problem	present, vatio
Sandy (Gleyed Matrix (S4)		Reduced Ve	ertic (F18) (MLRA 1	50A, 150B)	011000	alotabled of problem	
🔲 Sandy F	Redox (S5)		Piedmont Fl	oodplain S	oils (F19)	(MLRA 14	9A)		
Stripped	d Matrix (S6)		Anomalous	Bright Loar	ny Soils	(F20) (MLR/	A 149A, 153C, 15	3D)	
Dark Su	Inface (S7) (LRR P,	S, T, U)							
Turner	Layer (if observed)): 							
I ype:									
Depth (in	iches):					···	Hydric Soil Pre	sent? Yes <u>V</u>	No
Remarks:									
ł									
ļ									
1									



Wetland data point wnrp012f_w facing southeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northumpton sampling Date: 4/8/5
Applicant/Owner: Dominion	State: NC Sampling Point: whip 012-U
Investigator(s): EST (RODER, TURNbull)	Section, Township, Range:
Landform (hillslope, terrace, etc.): Mainal	Local relief (concave, convex, none): (DN(A) C Since (%): 2-5
Subregion (LRR or MLRA): LR P O Lat: 36.5	52486 Long: -77, 401109 Datum: W/1584
Soil Map Unit Name: Wehadkee Journ fremer	The Flooded NMA classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	Par2 Yes No. (If no evolution in Remarks)
Are Vegetation Soil or Hydrology significantly	disturbed? Are "Normal Circumstances" propert? Yes
Are Vegetation Soil or Hydrology adjuncting	phometic? //f pooded evelop accurate in Benerice)
SUMMARY OF FINDINGS – Attach site map showing	a sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>No</u>	is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
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 Spil Cracks (B6)
Surface Water (A1)	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	ieres along Living Roots (C3)
Sediment Deposits (B2)	ced Iron (C4)
Algal Mat or Crust (P4)	Ction in Tilled Soils (C6)
Iron Deposits (B5)	Remarks)
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	s): <u>NA</u>
Water Table Present? Yes No Depth (inches	s): <u>>70</u>
Saturation Present? Yes No Depth (inches	s): <u>22</u> Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	los, previous inspections), if available:
Remarks:	

Sampling Point: WWW DO12-4

- and and and	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>SOTA & SOTA</u>)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. VINUS TARCA		<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. <u>LIEX OPACA</u>	_20		FHC	Total Number of Dominant
3	· · · · · · · · · · · · · · · · · · ·			Species Across All Strata: (B)
4				Paraget of Deminant Develop
5				That Are OBL_EACW or EAC: UOO (A/B)
6				
7				Prevalence Index worksheet:
8.	-			Total % Cover of: Multiply by:
	100	= Total Cov		OBL species x 1 =
50% of total powers 30			. 17 _	FACW species x 2 =
Sopling/Shruh Stratum (Diatainer 2) A 30 A	<u> </u>	I LULAI CUVEI	· · · ·	FAC species x 3 =
A ALEX VIDECUES	10	V	CAR	FACU species x 4 =
1. Des thorna the			<u>PHC</u>	
2. LIQUICIAMDAN STYRALITUA			<u>rhc</u>	
3	-			
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators
6				14 Ranid Test for Hydronbytic Vegetation
7				
8				
	30	= Total Co	ver	
50% of total cover: 15	20% 0	f total cover	- lo	Problematic Hydrophytic Vegetation' (Explain)
Horb Stratum (Blot aires 3124 x 304)	20700			
				Indicators of hydric soil and wetland hydrology must
T. HOME		· · · · · · · · · · · · · · · · · · ·	·	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	<u> </u>	· · · · · · · · · · · · · · · · · · ·	·	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				
11				Woody vine – All woody vines greater than 3.28 ft in
10			•	neight.
12.	- <u>~</u>			
	<u></u>	= Total Co	ver	
50% of total cover:	20% (of total cove	r;	
Woody Vine Stratum (Plot size: <u>3044 x 3047</u>)	20		اهم بر مع	
1. Smilax votunditalia		<u> </u>	FAC	
2				
3		_	_	
4				
5.		_	-	
	20	= Total Cr		
50% of total covers	ື່ 2004	Total ov	u u	Present? Yes No
Bomodrau (If chapmed list supplied a last filling to	20%		sı. <u> </u>	,
Remarks. (in observed, list morphological adaptations be	iow).			
1				

Sampling Point: Whrp012-4

Profile Description: (Describe to the depth need	ed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
<u>(inches)</u> <u>Color (moist)</u> <u>%</u> <u>Colo</u>	or (moist) % Type ³ Loc ²	Texture Remarks
0-4 10 46 41 100		_5L
4-11 2.57 4/2 100		3L
11-20 2,544/2, 90 7,5	V51- 10 C M	61
· · · · · · · · · · · · · · · · · · ·		
		•
	- Alashin MOnManland David Oraina	2
Hydric Soil Indicators: (Applicable to all LRRs)	Inless otherwise noted)	Location: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Beduced Vertic (E18) (outside MI RA 150A B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Spils (F19) (LRR P. S. T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	es de le company sur
Coast Prairie Redoy (A16) (MI RA 150A)	lion-wanganese wasses (F12) (LRR O, P, 1 Limbric Surface (E13) /LRR P, T, Li)	 Indicators of hydrophytic vegetation and unstland hydrophytic regetation and
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	upless disturbed or problematio
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed of problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149)A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	, 149A, 153C, 153D)
		· · · ·
Dark Surface (S7) (LRR P, S, T, U)		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:		/
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
L Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No

.



Upland data point wnrp012_u facing northwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northam Oton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Whr POILE-W
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: ハットピ
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): (DY) (AVE Slone (%): 2-5
Subregion (LRR or MLRA): LR FP Lat: 2/0	52485 LONG: -77, 40011 Detum: 14/1584
Soil Map Unit Name: Wehadree Lourn frement	IV Flooded NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No (If no explain in Pomarka)
Are Vegetation Soil or Hydrology significantly	
Are Vegetation Soil or Hydrology paturally or	
SUMMARY OF FINDINGS – Attach site map showing	a sampling point locations transects important features etc.
	goundang point looulons, indisects, important leatures, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	Is the Sampled Area
Hydric Soil Present? Yes Vo	within a Wetland? Yes <u>No</u>
Remarks:	
Power line, right of way	
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 (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) L Drainage Patterns (B10)
Water Marks (B1)	Coor (C1) <u>I</u> Moss Trim Lines (B16)
Sediment Deposits (B2)	iced Iron (C4)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
L. Joundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	s).
Water Table Present? Yes V Depth (inche	s): surface
Saturation Present? Yes Ves No Depth (inche	s): <u>Sur fuce</u> Wetland Hydrology Present? Yes No
(includes capillary fringe)	
	tos, previous inspections), il available:
Remarks:	
Portions of wether in the	
I wouldn't in un dated	

,

Sampling Point: WhrpOlle-W

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30++ x 30++-)	<u>% Cover Species? Status</u>	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		
3		Species Across All Strate: 7- (P)
4.		
5		Percent of Dominant Species
o.		That Are OBL, FACW, or FAC: (A/B)
D		Prevalence Index worksheet:
7		Total % Cover of Multiply by
8		
	= Total Cover	
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3054 x 3054)		FAC species x 3 =
1. none,		FACU species x 4 =
2		UPL species x 5 =
2		Column Totals: (A) (B)
3		()
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Radid Test for Hydronhytic Vegetation
7		2 - Dominance Test is >50%
8.		
50% of total action		Problematic Hydrophytic Vegetation' (Explain)
Herb Stratum (Plot size: <u>DOPT XDOPT</u>)	с <i>С</i> Ил	¹ Indicators of hydric soil and wetland hydrology must
1. Anaropogon virginicus	\sim N $+HC$	be present, unless disturbed or problematic.
2. Dichant Kelium accomination	40 Y FAC.	Definitions of Four Vegetation Strata:
3. Pinus taeda	<u>5</u> N FAC	
4. JUNCHS effusus	15 Y OBL	more in diameter at breast beight (DBH) regardless of
5 Arundinaria aigantea	IN N FACW	height.
-	· ·	Sapling/Shrub – Woody plants, excluding vines, less
/		ulan 3 in. DBH and greater than 3.28 π (1 m) 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 vince greater then 2.29 ft in
11		height.
12.		
	75 = Total Cover	
50% of total cover: 37		
Weadwhile Obstance (Platial and SOSE + 31254)		
(Plot size: <u>JUT X JUT)</u>		
1. none		
2		
3		
4		
5		
		Hydrophytic
		Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations be	low).	

Sampling Point: <u>worpfile_</u>w

Depth (inches)	Matrix		Redox Features	Taxium
h-L	2.5744		Color (Infost)% Type0C*	<u>rexture</u> Remarks
1.15	7 - V51.	<u></u>		
6-10	215 171	100 _		500
10-10	2.5 191	_100 _		SCL
	•••			
			·····	
Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore 1 ining M=Matrix
lydric Soil	Indicators: (Applic	able to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below Surface (S8) (LRR S, T, U)	1 cm Muck (A9) (LRR O)
Histic Er	oipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (I RR R	T 10	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	icky Mineral (A7) (L		Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TE2)
Muck Pr	resence (A8) (LRR L	J)	Redox Depressions (F8)	Very Shallow Dark Surface (TE12)
🗌 1 cm Mi	ick (A9) (LRR P, T)		Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleter	d Below Dark Surfac	æ (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Da	ark Surface (A12)		Iron-Manganese Masses (F12) (LRR O, P, T	T) ³ Indicators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy N	Aucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
	Redox (SE)		Electronic (F18) (MLRA 150A, 150B)	
Stripped	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (MLRA 149	JA) N 149A (152C (152D)
Dark Su	rface (S7) (LRR P. S	S. T. U)		(145A, 153C, 153D)
Restrictive	Layer (if observed)	:		
Туре:				
Depth (in	ches):		MILLING CONTRACTOR OF	Hydric Soil Present? Yes 🗸 No
Remarks:	· · · · · · · · · · · · · · · · · · ·			
DOWer		L. (
power	nine rigi	it of i	Nay	
	U		\bigcirc	



Wetland data point wnrp011e_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northampton Sampling Date: 413115
Applicant/Owner: Dominion	State: NC Sampling Point: WINDBILLE
Investigator(s): EST (Roper, Turnbull)	Section, Township, Range: none
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): UN(AVE Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36.5	2477 Long: -77.40011 Datum: W6581
Soil Map Unit Name: Wehadkee Journ, Frequent	Hy flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain in Remarks)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation . Soil . or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
	1
Hydrophytic Vegetation Present? Yes V No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes <u>No</u>
Remarks:	and and a second s
Crim within 24hor	
10111 VOLIMIT 2 11113.	
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)
Lich Water (A1) Aquatic Fauna (B1	3) L Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Dirainage Patterns (B10)
Water Marks (B1)	ieres along Living Roots (C3)
Sediment Deposits (B2)	ced Iron (C4)
Drift Deposits (B3)	tion in Tilled Soils (C6) 📃 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LBB T 11)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s): NR
Water Table Present? Yes No Depth (inches	s): <u> </u>
Saturation Present? Yes <u>Ves</u> No Depth (inches	s): <u>Surface</u> Wetland Hydrology Present? Yes No No
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	los, previous inspections) if available:
Remarks:	· · · · · · · · · · · · · · · · · · ·

Sampling Point: WhrpOllf.W

Two Otenting Otenting 2011 2012	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree stratum (Plot size: 504-X 3017)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. <u>Liex opaca</u>		<u>_N</u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Finus talda	<u> 40</u>	<u> </u>	FAL	Total Number of Dominant
3. Hur vobrom	20	<u> </u>	FAL	Species Across All Strata:(B)
4			. <u></u>	Percent of Deminent Creation
5				That Are OBL, FACW, or FAC: UCO (A/B)
6				
7				Prevalence index worksheet:
8				Total % Cover_of:Muttiply by:
	70	= Total Cov	/er	OBL species x 1 =
50% of total cover: 35	20% of	f total cover	. 14	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304-X304-)			·	FAC species x 3 =
1 Ilex opaça	20	Y	FAC.	FACU species x 4 =
2 Arnal contrupt	20	Ý	ERC.	UPL species x 5 =
2. <u>17097 7000000</u>		<u>K</u>	<u> </u>	Column Totals: (A) (B)
J				(-)
4				Prevalence Index = B/A =
5	<u></u>	·		Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ³
	40	= Total Co	ver	Problematic Hydrophytic Venetation ¹ (Explain)
50% of total cover: 20	<u>≥</u> 20% o	f total cover	:_8_	
Herb Stratum (Plot size: 304+x304+)				Indicators of budgic poll and wallend budgeters must
1. none				be present, upless disturbed or problematic
······································	·			Definitions of Four Vegetation Startes
۵			<u></u>	Demitions of Pour 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	·	·	·	neight.
6		- <u>-</u>		Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All berbaceous (pop-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in height
12				in light.
····	()	m Total Ca		
			ivei	
	20% 0	or total cove	r:	
Woody Vine Stratum (Plot size: 50++ x30++)	10	N	- 1 -	
1. Smilax rounditolia			<u>FAC</u>	
2				
3	_		-	
4				
5				Undrandutia
	15	= Total Co	over	
50% of total cover: 7L	5 20%	- total cove	r 3	Present? Yes <u>No</u>
Pomorke: (If observed list membric size educities ha	2070		, <u> </u>	•
Remarks. (in observed, list morphological adaptations be	iow).			
1				

Sampling Point: whrpdlf.

Depth	Matrix	to the depth i	Redox Features	icator or confirm th	e absence of indicators.)
(inches)	Color (moist)	%	Color (moist) %	Type ¹ Loc ²	Texture Remarks
0-6	25 Y 5/2	100			5 Cha
6-20	2.5441	100			501_
				<u></u>	
	·				man and a second s
	· · · · · · · · · · · · · · · · · · ·				
¹ Type: C=C	oncentration D=Depl	letion RM=Re	duced Matrix MS=Masked S	and Grains	² l agation: Di para Lizian Matalain
Hydric Soil	Indicators: (Applica	able to all LR	Rs. unless otherwise noted	.)	Indicators for Problematic Hydric Solls ³ :
Histoso	(A1)		Polwalue Below Surface	(S8)/IRRSTIN	
Histic E	pipedon (A2)		Thin Dark Surface (S9) (I	-RR S. T. U)	
Black H	istic (A3)		Loamy Mucky Mineral (F	1) (LRR O)	Reduced Verlic (F18) (outside MLRA 150A.B)
🔲 Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2	:)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Matrix (F3)		Anomalous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark Surface (F6)		(MLRA 153B)
	ucky Mineral (A7) (LR	(R P, T, U)	Depleted Dark Surface (F	7)	Red Parent Material (TF2)
	resence (A8) (LRR U)	Redox Depressions (F8)		Very Shallow Dark Surface (TF12)
	UCK (A9) (LRR P, T) d Bolow Dark Surface	. (011)	Mari (F10) (LRR U)		L Olher (Explain in Remarks)
Thick D	ark Surface (A12)	= (A(1)		ILKA 151) /512) (I DD O D T)	³ logiostors of hudson hudson hudson and
	rairie Redox (A16) (N	ILRA 150A)	Umbric Surface (F13) (LI	(F12) (ERR 0, F, T) RR P. T. U)	wetland bydrology must be present
Sandy I	Mucky Mineral (S1) (L	.RR 0, S)	Delta Ochric (F17) (MLR	A 151)	unless disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Vertic (F18) (M	LRA 150A, 150B)	
Sandy I	Redox (S5)		Piedmont Floodplain Soil	s (F19) (MLRA 1494	X)
Strippe	d Matrix (S6)		Anomalous Bright Loamy	/ Soils (F20) (MLRA	149A, 153C, 153D)
Dark St	urface (S7) (LRR P, S	i, T, U)			
Restrictive	Layer (if observed):				
type:			_		/
Depth (ir	nches):		_]	Hydric Soil Present? Yes Ves No
Remarks:				-	
1					



Wetland data point wnrp011f_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP C	ity/County: Northampton sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Is IN COMI-U
Investigator(s): ESI (RODER, TURN bull) s	ection, Township, Range: None
Landform (hillslope, terrace, etc.): drawage	ocal relief (concave, convex, none): 100/10/16 Slone /%): 2-5
Subregion (LRR or MIRA): LEEP Lat: 3(0,5)	7.484 LODG: -77.40018 Dotum 14/4684
Soil Map Unit Name: Wehadkee Loan, frequent	Hy floodedNH received Datating
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 di	isturbed? Are "Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Power Line right of	Is the Sampled Area within a Wetland? Yes No
U J	
Van Winn 21 Misi	
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)
High Water Table (A2)	L Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	ior (C1)
Water Marks (B1) Oxidized Rhizospher	res along Living Roots (C3)
Sediment Deposits (B2)	d iron (C4)
Drift Deposits (B3)	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	C7) Geomorphic Position (D2)
Iron Deposits (B5)	marks)
L. Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	A11A
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	<u></u>
(includes capillary fringe)	Wetland Hydrology Present? Yes No V
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	

5

Sampling Point: Whrpbll-u

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>SOTT X SOTT</u>)	<u>% Cover Species? Status</u>	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		Tatal Number of Densis and
3		Species Across All Strata:
4.		
ς		Percent of Dominant Species
0	· · · · · · · · · · · · · · · · · · ·	That Are OBL, FACW, or FAC: (A/B)
0	,	Prevalence Index worksheet:
/	·	Total % Cover of: Multichy by:
8	·	ODI energies
	O = Total Cover	
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft-x30ft)	•	FAC species x 3 =
1 MDN2.		FACU species x 4 =
γ		UPL species x 5 =
۲		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1- Rapid Test for Hydrophytic Vegetation
7		2 - Dominginge Test is \$50%
8.		
	0 = Total Cover	
50% of total powers		Problematic Hydrophytic Vegetation' (Explain)
50% of total cover.	20% of total cover:	
Herb Stratum (Plot size: 2047 X.3047)		¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon Virginicus	<u>ao i FAC</u>	be present, unless disturbed or problematic.
2. Pteriaium aguillinum	<u>35 Y FACU</u>	Definitions of Four Vegetation Strata:
3. Diranthelium acommatom	<u>15 Y FAC</u>	Tree Month plants such sing vince 2 in (7.0 cm) or
4.		I ree – vvoody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
1 5		height,
o		
		Sapling/Shrub – Woody plants, excluding vines, less
ſ		than 3 m. DBH and greater than 3.28 ft (1 m) tail.
8		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		Mondu vine All woods vince creates then 0.00 ft in
11		height.
12.		
	The Total Course	
2<		
50% of total cover:	20% of total cover: <u>1 1</u>	
Woody Vine Stratum (Plot size: <u>50477X3047</u>)		
1. non		
2		
3.		
		•
r		•
0		- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations be	low).	
1		

Profile Desc	ription: (Describe	to the depth	needed to document the indicator o	or confirm the absence of indica	ators.)
Depth	Matrix		Redox Features		-
$\wedge - 2$	$2 \sim \sqrt{3} l_{a}$	<u> </u>	Color (moist) % Type	_Loc [_] _lexture	Remarks
	20116	160			
<u>2-5</u>	231-12	100			
5-12	2.5 1 3/3	<u> </u>		<u> </u>	
12-20	2.576/4	001		CL	
		·	······································	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·			······································	
1.Tumer C-C					
Hydric Soil	Indicators: (Applic	able to all I F	educed Matrix, MS=Masked Sand Gra	IINS. Location: PL=Pon	e Lining, M=Matrix.
	(A1)		Robyalue Below Surface (S8) /I I		Mematic Hydric Solis":
	pipedon (A2)		Thin Dark Surface (S9) (LRB S.	[10] [10] [10] [10] [10] [10] [10] [10]	
Black Hi	stic (A3)		Loamy Mucky Mineral (F1) (LRR	0) D Reduced Vertic	(F18) (outside MLRA 150A.B)
🔲 Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Piedmont Floor	Iplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Matrix (F3)	📙 Anomalous Brig	tht Loamy Soils (F20)
	Bodies (A6) (LRR P	7, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
	icky Mineral (A7) (Er resence (A8) (ERR II	κρ, Ι, Ο) Ν	Beday Depressions (F8)	Red Parent Ma	terial (TF2)
	ick (A9) (LRR P. T)	'I	Mari (F10) (LRR U)		Iark Surrace (1+12)
Depleter	d Below Dark Surfac	e (A11)	Depleted Ochric (F11) (MLRA 18	j1)	in remarks)
Thick Da	ark Surface (A12)		Iron-Manganese Masses (F12) (I	_RR O, P, T) ³ Indicators of	hydrophytic vegetation and
Coast P	rairie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (LRR P, T,	U) wetland hyd	rology must be present,
	NUCKY MINERAL (S1) (I Sleved Matrix (S4)	LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless distu	rbed or problematic.
Sandy C	Redox (S5)		Piedmont Floodplain Soils (F19)	(MI RA 1496)	
Stripped	Matrix (S6)		Anomalous Bright Loamy Soils (I	F20) (MLRA 149A, 153C, 153D)	
🔲 Dark Su	rface (S7) (LRR P, S	S, T, U)		,, , , ,	
Restrictive	Layer (if observed)	:			/
Type:					
Depth (in	ches):			Hydric Soil Presen	t? Yes No
Remarks:					
}					
1					
-					



Upland data point wnrp011_u facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northam Oton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Whr POILe-W
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: ハットピ
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): (DY) (AVE Slone (%): 2-5
Subregion (LRR or MLRA): LR FP Lat: 2/0	52485 LONG: -77, 40011 Detum: 14/1584
Soil Map Unit Name: Wehadree Lourn frement	IV Flooded NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No (If no explain in Pomarka)
Are Vegetation Soil or Hydrology significantly	
Are Vegetation Soil or Hydrology paturally or	
SUMMARY OF FINDINGS – Attach site map showing	a sampling point locations transects important features etc.
	goundang point looulons, indisects, important leatures, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	Is the Sampled Area
Hydric Soil Present? Yes Vo	within a Wetland? Yes <u>No</u>
Remarks:	
Power line, right of way	
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 (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) L Drainage Patterns (B10)
Water Marks (B1)	Coor (C1) <u>I</u> Moss Trim Lines (B16)
Sediment Deposits (B2)	iced Iron (C4)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
L. Joundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	s).
Water Table Present? Yes V Depth (inche	s): surface
Saturation Present? Yes Ves No Depth (inche	s): <u>Sur fuce</u> Wetland Hydrology Present? Yes No
(includes capillary fringe)	
	tos, previous inspections), il available:
Remarks:	
Portions of wether in the	
I wouldn't in un dated	

,

Sampling Point: WhrpOlle-W

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30++ x 30++-)	<u>% Cover Species? Status</u>	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		
3		Species Across All Strate: 7- (P)
4.		
5		Percent of Dominant Species
o.		That Are OBL, FACW, or FAC: (A/B)
D		Prevalence Index worksheet:
7		Total % Cover of Multiply by
8		
	= Total Cover	
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3054 x 3054)		FAC species x 3 =
1. none		FACU species x 4 =
2		UPL species x 5 =
2		Column Totals: (A) (B)
3		()
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Radid Test for Hydronhytic Vegetation
7		2 - Dominance Test is >50%
8.		
50% of total action		Problematic Hydrophytic Vegetation' (Explain)
Herb Stratum (Plot size: <u>DOPT XDOPT</u>)	с <i>С</i> Ил	¹ Indicators of hydric soil and wetland hydrology must
1. Anaropogon virginicus	\sim N $+HC$	be present, unless disturbed or problematic.
2. Dichant Kelium accomination	40 Y FAC.	Definitions of Four Vegetation Strata:
3. Pinus taeda	<u>5</u> N FAC	
4. JUNCHS effusus	15 Y OBL	more in diameter at breast beight (DBH) regardless of
5 Arundinaria aigantea	IN N FACW	height.
-	· ·	Sapling/Shrub – Woody plants, excluding vines, less
/		ulan 3 in. DBH and greater than 3.28 π (1 m) 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 vince greater then 2.29 ft in
11		height.
12.		
	75 = Total Cover	
50% of total cover: 37		
Weadwhile Obstance (Platial and SOSE + 31254)		
(Plot size: <u>JUT X JUT)</u>		
1. none		
2		
3		
4		
5		
		Hydrophytic
		Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations be	low).	

Sampling Point: <u>worpfile_</u>w

Depth (inches)	Matrix		Redox Features	Taxium
h-L	2.5744		Color (Inoist)% Type0C*	<u>rexture</u> Remarks
1.15	7 - V51.	<u></u>		
6-10	215 171	100 _		500
10-10	2.5 191	_100 _		SCL
	•••			
			·····	
Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore 1 ining M=Matrix
lydric Soil	Indicators: (Applic	able to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Below Surface (S8) (LRR S, T, U)	1 cm Muck (A9) (LRR O)
Histic Er	oipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (I RR R	T 10	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	icky Mineral (A7) (L		Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TE2)
Muck Pr	resence (A8) (LRR L	J)	Redox Depressions (F8)	Very Shallow Dark Surface (TE12)
🗌 1 cm Mi	ick (A9) (LRR P, T)		Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleter	d Below Dark Surfac	æ (A11)	Depleted Ochric (F11) (MLRA 151)	
Thick Da	ark Surface (A12)		Iron-Manganese Masses (F12) (LRR O, P, T	T) ³ Indicators of hydrophytic vegetation and
Coast P	rairie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy N	Aucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
	Redox (SE)		Electronic (F18) (MLRA 150A, 150B)	
Stripped	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (MLRA 149	JA) N 149A (152C (152D)
Dark Su	rface (S7) (LRR P. S	S. T. U)		(145A, 153C, 153D)
Restrictive	Layer (if observed)	:		
Туре:				
Depth (in	ches):		MILLIN .	Hydric Soil Present? Yes 🗸 No
Remarks:	· · · · · · · · · · · · · · · · · · ·			
DOWer		L. (
power	nine rigi	it of i	Nay	
	U		\bigcirc	



Wetland data point wnrp011e_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northampton Sampling Date: 413115
Applicant/Owner: Dominion	State: NC Sampling Point: WINDBILLE
Investigator(s): EST (Roper, Turnbull)	Section, Township, Range: none
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): UN(AVE Slope (%): 2-5
Subregion (LRR or MLRA): LPP Lat: 36.5	2477 Long: -77.40011 Datum: W6581
Soil Map Unit Name: Wehadkee Journ, Frequent	Hy flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain in Remarks)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation . Soil . or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
	1
Hydrophytic Vegetation Present? Yes V No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes <u>No</u>
Remarks:	and and a second s
Crim within 24br	
10111 VOLJANT 2 1113.	
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)
Lich Water (A1) Aquatic Fauna (B1	3) L Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Dirainage Patterns (B10)
Water Marks (B1)	ieres along Living Roots (C3)
Sediment Deposits (B2)	ced Iron (C4)
Drift Deposits (B3)	tion in Tilled Soils (C6) 📃 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LBB T 11)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s): NR
Water Table Present? Yes No Depth (inches	s): <u> </u>
Saturation Present? Yes <u>Ves</u> No Depth (inches	s): <u>Surface</u> Wetland Hydrology Present? Yes No No
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	los, previous inspections) if available:
Remarks:	· · · · · · · · · · · · · · · · · · ·

Sampling Point: WhrpOllf.W

Two Otenting Otenting 2011 2012	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree stratum (Plot size: 504-X 3017)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. <u>Liex opaca</u>		<u>_N</u>	FAC	That Are OBL, FACW, or FAC:(A)
2. Finus talda	<u> 40</u>	<u> </u>	FAL	Total Number of Dominant
3. Hur vobrom	20	<u> </u>	FAL	Species Across All Strata:(B)
4			. <u></u>	Percent of Deminent Creation
5				That Are OBL, FACW, or FAC: UCO (A/B)
6				
7				Prevalence index worksheet:
8				Total % Cover_of:Muttiply by:
	70	= Total Cov	/er	OBL species x 1 =
50% of total cover: 35	20% of	f total cover	. 14	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304-X304-)			·	FAC species x 3 =
1 Ilex opaça	20	Y	FAC.	FACU species x 4 =
2 Arnal contrupt	20	Ý	ERC.	UPL species x 5 =
2. <u>17097 7000000</u>		<u>K</u>	<u> </u>	Column Totals: (A) (B)
J				(-)
4				Prevalence Index = B/A =
5	<u></u>	·		Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ³
	40	= Total Co	ver	Problematic Hydrophytic Venetation ¹ (Explain)
50% of total cover: 20	<u>≥</u> 20% o	f total cover	:_8_	
Herb Stratum (Plot size: 304+x304+)				Indicators of budgic poll and wallend budgeters must
1. none				be present, upless disturbed or problematic
······································	·			Definitions of Four Vegetation Startes
5			<u></u>	Demitions of Pour 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	·	·	·	neight.
6		- <u>-</u>		Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All berbaceous (pop-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in height
12				in light.
····	()	m Total Ca		
			ivei	
	20% 0	or total cove	r:	
Woody Vine Stratum (Plot size: 50++ x30++)	10	N	- 1 -	
1. Smilax rounditolia			<u>FAC</u>	
2				
3	_		-	
4				
5				Undrandutia
	15	= Total Co	over	
50% of total cover: 7L	5 20%	- total cove	r 3	Present? Yes <u>No</u>
Pomorke: (If observed list membric size educities ha	2070		, <u> </u>	•
Remarks. (in observed, list morphological adaptations be	iow).			
1				

Sampling Point: whrpdlf.

Depth	Matrix	to the depth i	Redox Features	icator or confirm th	e absence of indicators.)
(inches)	Color (moist)	%	Color (moist) %	Type ¹ Loc ²	Texture Remarks
0-6	25 Y 5/2	100			5 Cha
6-20	2.5441	100			501_
				<u></u>	
	·				man and a second s
	· · · · · · · · · · · · · · · · · · ·				
¹ Type: C=C	oncentration D=Depl	letion RM=Re	duced Matrix MS=Masked S	and Grains	² l agation: Di para Lizian Matalain
Hydric Soil	Indicators: (Applica	able to all LR	Rs. unless otherwise noted	.)	Indicators for Problematic Hydric Solls ³ :
Histoso	(A1)		Polwalue Below Surface	(S8)/IRRSTIN	
Histic E	pipedon (A2)		Thin Dark Surface (S9) (I	-RR S. T. U)	
Black H	istic (A3)		Loamy Mucky Mineral (F	1) (LRR O)	Reduced Verlic (F18) (outside MLRA 150A.B)
🔲 Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2	:)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Matrix (F3)		Anomalous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark Surface (F6)		(MLRA 153B)
	ucky Mineral (A7) (LR	(R P, T, U)	Depleted Dark Surface (F	7)	Red Parent Material (TF2)
	resence (A8) (LRR U)	Redox Depressions (F8)		Very Shallow Dark Surface (TF12)
	UCK (A9) (LRR P, T) d Bolow Dark Surface	. (011)	Mari (F10) (LRR U)		L Olher (Explain in Remarks)
Thick D	ark Surface (A12)	= (A(1)		ILKA 151) /512) (I DD O D T)	³ logiostors of hudson hudson hudson and
	rairie Redox (A16) (N	ILRA 150A)	Umbric Surface (F13) (LI	(F12) (ERR 0, F, T) RR P. T. U)	wetland bydrology must be present
Sandy I	Mucky Mineral (S1) (L	.RR 0, S)	Delta Ochric (F17) (MLR	A 151)	unless disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Vertic (F18) (M	LRA 150A, 150B)	
Sandy I	Redox (S5)		Piedmont Floodplain Soil	s (F19) (MLRA 1494	X)
Strippe	d Matrix (S6)		Anomalous Bright Loamy	/ Soils (F20) (MLRA	149A, 153C, 153D)
Dark St	urface (S7) (LRR P, S	i, T, U)			
Restrictive	Layer (if observed):				
type:			_		/
Depth (ir	nches):		_]	Hydric Soil Present? Yes Ves No
Remarks:				-	
1					



Wetland data point wnrp011f_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP C	ity/County: Northampton sampling Date: 4/8/15
Applicant/Owner: Dominion	State: NC Sampling Point: Is IN COMI-U
Investigator(s): ESI (RODER, TURN bull) s	ection, Township, Range: None
Landform (hillslope, terrace, etc.): drawage	ocal relief (concave, convex, none): 100/10/16 Slone /%): 2-5
Subregion (LRR or MIRA): LEEP Lat: 3(0,5)	7.484 LODG: -77.40018 Dotum 14/4684
Soil Map Unit Name: Wehadkee Loan, frequent	Hy floodedNH received Datating
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 di	isturbed? Are "Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Power Line right of	Is the Sampled Area within a Wetland? Yes No
U J	
Van Winn 21 Misi	
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)
High Water Table (A2)	L Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	ior (C1)
Water Marks (B1) Oxidized Rhizospher	res along Living Roots (C3)
Sediment Deposits (B2)	d iron (C4)
Drift Deposits (B3)	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	C7) Geomorphic Position (D2)
Iron Deposits (B5)	marks)
L. Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	A11A
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	<u></u>
(includes capillary fringe)	Wetland Hydrology Present? Yes No V
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	

5

Sampling Point: Whrpbll-u

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>SOTT X SOTT</u>)	<u>% Cover Species? Status</u>	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2		Tatal Number of Densis and
3		Species Across All Strata:
4.		
ς		Percent of Dominant Species
0	· · · · · · · · · · · · · · · · · · ·	That Are OBL, FACW, or FAC: (A/B)
0	,	Prevalence Index worksheet:
/	·	Total % Cover of: Multichy by:
8	·	ODI energies
	O = Total Cover	OBL species X1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft-x30ft)	•	FAC species x 3 =
1 MDN2.		FACU species x 4 =
γ		UPL species x 5 =
۲		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1- Rapid Test for Hydrophytic Vegetation
7		2 - Dominginge Test is \$50%
8.		
50% of total powers		Problematic Hydrophytic Vegetation' (Explain)
50% of total cover.	20% of total cover:	
Herb Stratum (Plot size: 2047 X.3047)		¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon Virginicus	<u>ao i FAC</u>	be present, unless disturbed or problematic.
2. Pteriaium aguillinum	<u>35 Y FACU</u>	Definitions of Four Vegetation Strata:
3. Diranthelium acommatom	<u>15 Y FAC</u>	Tree Month plants such sing vince 2 in (7.0 cm) or
4.		I ree – vvoody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of
1 5		height,
o		
		Sapling/Shrub – Woody plants, excluding vines, less
ſ		than 3 In. OBH and greater than 3.28 ft (1 m) tail.
8		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		Mondu vine All woods vince creates then 0.00 ft in
11		height.
12.		
	The Total Course	
2<		
50% of total cover:	20% of total cover: <u>1 1</u>	
Woody Vine Stratum (Plot size: <u>50477X3047</u>)		
1. non		
2		
3.		
		•
r		•
0		- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations be	low).	
1		

Profile Desc	ription: (Describe	to the depth	needed to document the indicator o	or confirm the absence of indica	ators.)
Depth	Matrix		Redox Features		-
$\wedge - 2$	$2 \sim \sqrt{3}$	<u> </u>	Color (moist) % Type	_Loc [_] _lexture	Remarks
	20116	160			
<u>2-5</u>	23112	100			
5-12	2.5 1 3/3	<u> </u>		<u> </u>	
12-20	2.576/4	001		CL	
		·	······································	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·			······································	
1					
Hydric Soil	Indicators: (Applic	able to all I F	educed Matrix, MS=Masked Sand Gra	IINS. Location: PL=Pon	e Lining, M=Matrix.
	(A1)		Robyalue Below Surface (S8) /I I		Mematic Hydric Solis":
	pipedon (A2)		Thin Dark Surface (S9) (LRB S.	[10] [10] [10] [10] [10] [10] [10] [10]	
Black Hi	stic (A3)		Loamy Mucky Mineral (F1) (LRR	0) D Reduced Vertic	(F18) (outside MLRA 150A.B)
🔲 Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Piedmont Floor	Iplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Matrix (F3)	📙 Anomalous Brig	tht Loamy Soils (F20)
	Bodies (A6) (LRR P	7, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
	icky Mineral (A7) (Er resence (A8) (ERR II	κρ, Ι, Ο) Ν	Beday Depressions (F8)	Red Parent Ma	terial (TF2)
	ick (A9) (LRR P. T)	'I	Mari (F10) (LRR U)		Iark Surrace (1+12)
Depleter	d Below Dark Surfac	e (A11)	Depleted Ochric (F11) (MLRA 18	j1)	in remarks)
Thick Da	ark Surface (A12)		Iron-Manganese Masses (F12) (I	_RR O, P, T) ³ Indicators of	hydrophytic vegetation and
Coast P	rairie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (LRR P, T,	U) wetland hyd	rology must be present,
	NUCKY MINERAL (S1) (I Sleved Matrix (S4)	LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless distu	rbed or problematic.
Sandy C	Redox (S5)		Piedmont Floodplain Soils (F19)	(MI RA 1496)	
Stripped	Matrix (S6)		Anomalous Bright Loamy Soils (I	F20) (MLRA 149A, 153C, 153D)	
🔲 Dark Su	rface (S7) (LRR P, S	S, T, U)		,, , , ,	
Restrictive	Layer (if observed)	:			/
Type:					
Depth (in	ches):			Hydric Soil Presen	t? Yes No
Remarks:					
}					
1					
-					



Upland data point wnrp011_u facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Northampton Sampling Date: 4/8/15
Applicant/Owner: Dominion	State: <u>NC</u> Sampling Point: <u>WnrP 010 F_W</u>
Investigator(s): ESI CROper, Turnbull)	Section, Township, Range:Ove
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none); CONLAVE Slope (%); Z-S
Subregion (LRR or MLRA): LPR P J Lat: 36.	52615 Long: -77, 39412 Datum: W6584
Soil Man Linit Name: Webadler, JOAM, Freinjent	Ly flooded NBAU classification: PEO
Are alimatic / hydrologic conditions on the site typical for this time of y	
Are climate in Hydrologic conditions on the site typical for this time of y	
Are vegetation, Soli, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes Ves No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Watand Hydrology Indiactore	
Primary indicators (minimum of one is required; check all that apply	Secondary Indicators (minimum of two required)
Surface Water (A1)	
High Water Table (A2)	(5) (LRR II) Drainage Patterns (R10)
Saturation (A3)	Odor (C1)
Water Marks (B1)	wheres along Living Roots (C3)
Sediment Deposits (B2)	uced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	ce (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Mater-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Surface Mater Brogent/2 Van No. Depth (inclu	$\sim 10^{-10}$
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Dopth (inclu	and in the Westland Hudralanu Drazanta Mag
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

Trop Stratum (Plat size, 2/24 + 3/24)	Absolute Dominant Indicator	Dominance Test worksheet:
	20 V Cha	Number of Dominant Species
1. <u>Llex opaca</u>	$-\frac{20}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	That Are OBL, FACW, or FAC: (A)
2. Acer rubnm	<u>15 1 FAC</u>	Total Number of Dominant
3. Liviodendron tolipifera	10 Y FACL	Species Across All Strata:
4		
т		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: <u>831</u> (A/B)
6		
7.		Prevalence index worksheet:
8		Total % Cover of: Multiply by:
0	- UK	OBL species x 1 =
	= Total Cover	
50% of total cover: _2_4	415 20% of total cover:	X 2
Sapling/Shrub Stratum (Plot size: 3044x3044)		FAC species x 3 =
1 tlex DONIA	ID Y FAC	FACU species x 4 =
A March 199		UPL species x 5 =
2. Ilagnoria virginiana	-10 -1 FHCM	Column Tatalay (A)
3. 0 0	··· · · · · · · · · · · · · · · · · ·	
4.		
5		
u,		Hydrophytic Vegetation Indicators:
6	·····	الله المجرع المجامع المجامع المجامع المجامع المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ الم
7		2 - Dominance Test is >50%
8.		
••••••••••••••••••••••••••••••••••••••	2-D - Total Course	· 1 3 - Prevalence Index IS ≤3.0"
*		Problematic Hydrophytic Vegetation' (Explain)
50% of total cover:	<u>U</u> 20% of total cover: <u></u>	-
Herb Stratum (Plot size: 30ft x 30ft)	·	¹ Indicators of budric soil and watland budrology must
1 none.		he present unless disturbed or problematic
2		_ Definitions of Four Vegetation Strata:
3		Tree Meady plants evaluating vince 2 in (7.6 cm) or
4		more in diameter at breast beight (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		-
0		 Herb – All herbaceous (non-woody) plants, regardless
9.		_ of size, and woody plants less than 3.28 ft tall.
10		- Moody vine - All woody vines areater than 3.28 ft in
11.		height
40		
1Z		- [
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum / Plateize: 20 CL v 20 Ct		—
(FIUSZE, DUTI ADUTI)	ID V CA.	
1. <u>Smilax notunditolia</u>	-10 - y - FAC	2
2.		
3		-
.		-
4		_]
5		Hudrophytic
	10 - Total Cover	Veretation
	6	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations)	below).	<u></u>
Remarks: (If observed, list morphological adaptations	below).	

ţ

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix Redox Features									
(inches)	<u>Color (moist)</u>	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks		
0-5	2.5412						CL			
5-20	2.5 45/1	97	104R4/m	3	Ċ.	PL	CL			
		- <u>ii</u>								
P					·		·····			
		·								
	· ···									
·	· <u> </u>									
Type: C=C	oncentration, D=Der	oletion, RM=F	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL=P	ore Lining, M=Matrix.		
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ted.)		Indicators for P	roblematic Hydric Soils ³ :		
Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (L	.RR S, T, U)	1 cm Muck (/	A9) (LRR O)		
	pipedon (A2)		Thin Dark St	urface (S9)) (LRR S,	T, U)	2 cm Muck (A10) (LRR S)		
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced Vertic (F18) (outside MLRA 150A,B)			
	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		L Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	a Layers (A5)		Depleted Ma	itrix (F3)			L Anomalous Bright Loamy Soils (F20)			
	Doules (AD) (LRK F	', I, U) DD D T IN	Redox Dark	Surface (+6)		(MLRA 153B)			
	JCKY IMITIERAL (A7) (L	N P, I, U)		IK Sunaci	e (F7)		Red Parent I	Red Parent Material (TF2)		
				essions (F	-8)		Very Shallow Dark Surface (TF12)			
	d Below Dark Surfac	ce (A11)		hric (F11)		51)	Uner (Expla	in in Remarks)		
Thick D	ark Surface (A12)			nese Mas	ses (F12)	(IRROPI	aroteoindi ^c (7	of hydrophytic vegetation and		
Coast P	rairie Redox (A16) (MLRA 150A)	Umbric Surf	ace (F13)	(LRR P. 1	(u)	wetland b	or hydrophylic vegetation and		
🔲 🔲 Sandy 🛚	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (M	LRA 151)	., - /	unless di	sturbed or problematic		
Sandy (Gleyed Matrix (S4)	,	Reduced Ve	rtic (F18)	(MLRA 1	50A, 150B)				
🛛 🛄 Sandy f	Redox (S5)		Piedmont Fi	oodplain	Soils (F19) (MLRA 149	A)			
Stripped	d Matrix (S6)		Anomalous	Bright Loa	amy Soils	(F20) (MLR/	A 149A, 153C, 1531	D)		
Dark St	urface (S7) (LRR P,	S, T, U)								
Restrictive	Layer (if observed):								
Type:								/		
Depth (ir	nches):						Hydric Soil Pres	ent? Yes V		
Remarks:	, <u>name</u> ,									
								·		
1										
1										
1										
1										
ł										



Wetland data point wnrp010f_w facing south.
WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: <u>ACP</u>	· · · · · · · · · · · · · · · · · · ·	City/County:	thampton	Sampling Date: <u>4/8/15</u>
Applicant/Owner: Domini	<u>on</u>	·	State: <u></u>	Sampling Point: Why p010_u
Investigator(s): ESI (Rope	2r, Tornbull)	Section, Township, I	Range: <u>None</u>	
Landform (hillslope, terrace, etc.):	drainage.	Local relief (concave	e, convex, none): <u>r.ov.(</u>	Slope (%): 2-5
Subregion (LRR or MLRA):	2 P U Lat: 3	16.52620	Long: -77, 39 139	Datum: W///589
Soil Map Unit Name: Wehan	Kee Jown. Free	vently flood	Col NWI classific	ation: NA
Are climatic / hydrologic condition	s on the site typical for this time	of year? Yes Nr		emorke)
Are Venetation Soil	or Hydrology signific	antly disturbed?	• (if no, explain in it	venanta Ven
Are Vegetation, Soil	. or Hydrology signific	iv problematic?	needed explain any answe	rs in Remarks)
SUMMARY OF FINDINGS	 Attach site map show 	ving sampling poin	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present? Remarks:	? Yes <u>No</u> <u>No</u> <u>Yes</u> <u>Yes</u> <u>No</u> <u>Yes</u> <u>No</u> <u>Yes</u> <u>No</u> <u>Yes</u> <u>No</u> <u>Yes</u> <u>Yes</u> <u>No</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Xes</u>	Is the Samp within a Wet	led Area land? Yes	No
rain within 24	hrsi			
HYDROLOGY				
Wetland Hydrology Indicators	1		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of	one is required: check all that a	(ylag	Surface Soil	Cracks (B6)
High Water Table (A2)	Aquatic Fauni	a (813) - (815) (LPP II)	L Sparsely Ve	getated Concave Surface (B8)
Saturation (A3)	Hvdrogen Su	fide Odor (C1)		ines (B16)
Water Marks (B1)	Oxidized Rhiz	zospheres along Living R	oots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence of F	Reduced Iron (C4)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Recent Iron F	Reduction in Tilled Soils (C6) 🗌 Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	L Thin Muck Su	urface (C7)	Geomorphic	2 Position (D2)
Iron Deposits (B5)	Uther (Explai	in in Remarks)	Shallow Aqu	uitard (D3)
Water-Stained Leaves (B9				
Field Observations:	·			
Surface Water Present?	Yes No Depth (i	nches): <u>NA-</u>		
Water Table Present?	Yes No Depth (i	nches): <u>>20</u>		
Saturation Present? (includes capillary fringe)	Yes Ves No Depth (i	nches): 4	Wetland Hydrology Prese	ent? Yes No
Describe Recorded Data (strea	im gauge, monitoring well, aeria	I photos, previous inspec	lions), if available:	••••••
Remarks:			<u> </u>	
*				
1				

Ψ.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>3044x3044</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taoda	30	Y	FAC	That Are OBL, FACW, or FAC: 5 (A)
2				
		·····		Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5	,			That Are OBL FACW or FAC: LOD (A/B)
6.				
7	·	<u> </u>		Prevalence Index worksheet:
	·			Total % Cover of: Multiply by:
8				
	_30	= Total Cov	ver	
50% of total cover: <u>\5</u>	- 20% o	f total cover	:	FACVV species x 2 =
Sapling/Shrub Stratum (Plot size: 304+ x304+)				FAC species x 3 =
1 Vallage / Drives basin M	5	N	EANN	FACU species x 4 =
a lie al le aluge Chas	16	~~~ <u>~</u>	Car	UPL species x 5 =
2. <u>Siguidambas</u> Styliscitiva	10		<u>rnu</u>	Column Totals: (A) (B)
3				
4				Prevalence Index = 8/A =
5				
6				nyurophytic vegetation indicators:
7				Rapid Test for Hydrophytic Vegetation
[/·		·		2 - Dominance Test is >50%
8			- <u></u>	3 - Prevalence Index is ≤3.0 ¹
	20	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	> 20%	f total cove	r 4	
Horth Stratium (Plat airor 30G4 30G4)			···	
				indicators of hydric soil and wetland hydrology must
1. none				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
4				I ree – Woody plants, excluding vines, 3 in. (7.6 cm) or the more in diameter at broast height (DPH), regardless of
		-		height.
] 0				
6				Sapling/Shrub - Woody plants, excluding vines, less
7		_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All borbaccous (pop woody) plants, regardless
9				of size and woody plants less than 3.28 ft fall
10				
	· · · · · · ·			Woody vine - All woody vines greater than 3.28 ft in
11,				height.
12				
	O	= Total C	over	······································
50% of total cover	20%	of total cov	er:	
Woody Vine Stratum (Plat size: 30LL v 20LL)	2070	÷. (510) 00¥		
(The state of the	10	٤,	501	
1. Smilax rotunditolla		/	- +HC	•
2. Lonicera inponica	<u></u>	<u> </u>	<u>_ FAC</u>	
3.				
1				-
				-
5				ر Hydrophytic
	15	= Total C	Cover	Vegetation
50% of total cover: 7	15 20%	of total cov	/er: 3	Present? Yes V No
Remarks: (If observed, list morphological adaptations by				
inclinations. (In observed, list morphological adaptations bi	CiOW).			

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

Sampling Point: WhrDO10-4

Frome Desc	ription: (Describe	to the depti	h needed to docur	nent the indicato	r or confirm t	he absence of indicators.)	j
Depth	Matrix		Redo	x Features		·	
(Inches)	<u>Color (moist)</u>		Color (moist)	<u>% Type</u>	Loc ²	Texture Remarks	
0-3	2.57 3/1	100				<u></u>	
<u>3-8</u>	2.5443	100				5	-
8-15	2,574/3	60	25141,	40 D		3	İ
15-20	Z.574/2	- <u></u> - ان۵	······································	• <u></u>		5	
				· · · · · · · · · · · · · · · · · · ·			
		· <u> </u>				······································	
<u></u>					<u> </u>		
				• ••••• • • -		2	
Hydric Soil	uncentration, D=Dep	setion, RM=I	Reduced Matrix, M	S=Masked Sand G	Brains.	Location: PL=Pore Lining, M=Matrix.	
	indicators: (Applic	able to all L	RRS, unless othe	rwise noted.)		Indicators for Problematic Hydric Soils':	
	(AT) Ninedon (A2)		Polyvalue Be	elow Surface (S8)	(LRR S, T, U)		
Black Hi	istic (A3)			JFIACE (S9) (LRR S	9, 1, U) PROV	L 2 cm Muck (A10) (LRR S)	
	en Sulfide (A4)			y mineral (#1) (LP ad Matrix /52)	(r, U)	Piedmont Floodplain Spile (510) (/ DD D	IA,B) e m
Stratifier	d Lavers (A5)		Depleted Ma	ifrix (F3)		Anomalous Bright Learny Soils (F19) (LRR P, S	ə, I)
Organic	Bodies (A6) (LRR P	P, T, U)	Redox Dark	Surface (F6)		(MLRA 153B)	
🔲 5 cm Mi	ucky Mineral (A7) (Li	RR P, T, U)	Depleted Da	rk Surface (F7)		Red Parent Material (TF2)	
🛛 🛄 Muck Pi	resence (A8) (LRR L	J)	Redox Depr	essions (F8)		Very Shallow Dark Surface (TF12)	
📙 1 cm Mi	uck (A9) (LRR P, T)		Marl (F10) (I	LRR U)		Uther (Explain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc	hric (F11) (MLRA	151)		
	ark Surface (A12)		Iron-Mangar	iese Masses (F12)) (LRR O, P, 1	alnoticators of hydrophytic vegetation and	i
	raine Redox (A16) (MLRA 150Å) Umbric Surf	ace (F13) (LRR P,	T, U)	wetland hydrology must be present,	
Sandy (Aucky Mineral (S1) (Sleved Matrix (S4)	LRR 0, S)		: (F17) (MERA 151 urtin (E10) (MI) DA	i) 1504 4500)	unless disturbed or problematic.	
	Sedox (S5)	,		MLRA (F18) (MLRA	150A, 150B) 0) (MI DA 444	A.	
	i Matrix (S6)			Bright Loamy Soils	9) (MEKA 148 5 (F20) (MED/	A)	
			1 1 5 5 7 1 5 5 5 1 5		3 11 ZUJ UMERA		
Dark Su	Iface (S7) (LRR P. 3	S. T. U)			(/ ((1434, 1330, 1330)	
Dark Su Restrictive	Iface (S7) (LRR P, Layer (if observed)	S, T, U)					
Dark Su Restrictive Type:	irface (S7) (LRR P, Layer (if observed)	S, T, U) ::					
Dark Su Restrictive Type: Depth (ir	Irface (S7) (LRR P, s Layer (if observed)	S, T, U) ::				Hydric Soil Present? Yes No y	/
Dark Su Restrictive Type: Depth (in Remarks:	Irface (S7) (LRR P, a Layer (if observed) Inches):	S, T, U)):				Hydric Soil Present? Yes No	_
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) ::				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) ::			· - · · · · · · · · · · · · · · · · · ·	Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, 3 Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) ::				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No </u>	
Dark Su Restrictive Type: Depth (in Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	_
Dark Su Restrictive Type: Depth (in Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	ırface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No </u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) ::				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (in Remarks:	Irface (S7) (LRR P, : Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, i Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes No	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, i Layer (if observed) Inches):	S, T, U) :				Hydric Soil Present? Yes <u>No</u>	
Dark Su Restrictive Type: Depth (ir Remarks:	Irface (S7) (LRR P, i Layer (if observed) Inches):	S, T, U) ::				Hydric Soil Present? Yes No	

Environmental Field Surveys Wetland Photo Page



Upland data point wnrp010_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	city/County: Northampton Sampling Date: 4/8/15
Applicant/Owner: <u>Pominion</u>	State: NL Sampling Point: Whr P 009e.w
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: <u>MONE</u>
Landform (hillslope, terrace, etc.): drainaal	Local relief (concave, convex, none): LONLANC Slope (%): 2-5
Subregion (LRR or MLRA): LFFP Lat: 36.5	52811 Long: -77, 38832 Datum: W6584
Soil Map Unit Name: Wehadkee Joan freuvent	ly flooded NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of ve	Par? Yes No (If no evolution in Remarks)
Are Vegetation V Soil or Hydrology significantly	dicturbed? Are "Normal Circumstances" acceptal. You have
Are Vegetation, or Hydrology significantly	ablemetic? //fineeded_eveloid_eve
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>No</u>	is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
power line right of way rain within 24hr	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	
Surface Water (A1)	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	neres along Living Roots (C3)
Sediment Deposits (B2)	ced iron (C4) Crayfish Burrows (C8)
L Drift Deposits (B3) Recent Iron Reduc	Ction in Tilled Solis (C6) Saturation Visible on Aerial Imagery (C9)
I Iron Deposits (B5)	Remarks)
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 (inche	s): <u>NA</u>
Water Table Present? Yes <u>Ves</u> No Depth (inche	s): <u>b</u>
Saturation Present? Yes <u>No</u> Depth (inche	s): <u>Swiface</u> Wetland Hydrology Present? Yes <u>/</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

~

	Absolute Dominant Indicate	Dominance Test worksheet:
ree Stratum (Plot size: SOFTX SOFT)	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species
none		_ That Are OBL, FACW, or FAC: (A)
•		- Total Number of Dominant
		_ Species Across All Strata: (B)
. <u> </u>		
5		That Are OBL FACW or FAC: 100 (A/B)
S		
7		Prevalence Index worksheet:
)		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304+X30ff)		FAC species x 3 =
1 work		FACU species x 4 =
	·	UPL species x 5 =
>		— Column Totals: (A) (B)
، <u> </u>	<u> </u>	
۶		Prevalence Index = B/A =
o.		— Hydrophytic Vegetation Indicators:
		- H 12 Rapid Test for Hydrophytic Vegetation
-		— 🕍 2 - Dominance Test is >50%
ß		— ☐ 3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover:	_
Herb Stratum (Plot size: 301+×30++)	0	¹ Indicators of hydric soil and wetland hydrology must
1. Adrepagan virginicus	<u>_ 20 Y FH</u>	be present, unless disturbed or problematic.
2. Junus effusis	<u> 15 1 06</u>	Definitions of Four Vegetation Strata:
3. Dichanthelium aluminator	<u>n 40 Y FAC</u>	Trace Woody plants evoluting vince 2 in (7.6 pm) o
4		more in diameter at breast height (DBH), regardless o
5		height.
6.		Sanling/Shrub – Woody plants, evoluting vines, less
7.		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.		
9		Herb – All nerbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
4n		
11		Woody vine - All woody vines greater than 3.28 ft in
10		
12.	75	—
500/ -51-1-1 3	$\frac{1}{5} = 1$ otal Cover	
So of total cover:		<u>-</u>
(Plot size: <u>OUT X OUT T</u>)	a V cA	1
1. FUBDS OF QUILS	<u></u> <u>_</u> <u></u>	
2	, <u>, , , , , , , , , , , , , , , , </u>	·
3		
4		
5		Hydrophytic
	<u>25</u> = Total Cover	Vegetation
50% of total cover:	<u> 1.ら</u> 20% of total cover: <u></u>	Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations	below).	
	· · · · · · ·	
power line right of was		

SOIL	
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Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the in	dicator	or confirm	the absence of i	ndicators.)	
Depth (inches)	Matrix		Rede	ox Features	T	1 2		_	
h_{-}	> ~ V 41.	. <u></u> .		%	ivpe.	LOC [_]		Remarks	
	2 6 1 11	<u>100</u> .	LOVA W		<u>^</u>		<u> </u>		
$\frac{5-n}{2-n}$	610111	· <u> 15</u> ·	1016-16	<u> </u>	<u> </u>	<u>_PL</u>	<u> </u>		
<u>B-10</u>	6.5 7511	95	101616	<u> </u>	<u> </u>	PL	<u> 502 _</u>		
·									
·	• ·····			<u> </u>		·	······		<u> </u>
		lotion DM-	Poduced Metrix M				2:		
Hydric Soil I	Indicators: (Applic	able to all I	RRs. unless offe	rwise note	<u>Sanu Gr</u> d.)	ains.	Indicators for	Pore Lining, M=Matrix. Problematic Hydric Soile ³	•
Histosol	(A1)			elow Surfac	e (S8) (I	RRSTI			•
Histic Er	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S.	T, U)		(A3) (ERR 0)	
📋 🔲 Black Hi	stic (A3)		Loamy Muci	ky Mineral (I	F1) (LRI	२०)	Reduced V	/ertic (F18) (outside MLRA	150A,B)
Hydroge	n Sulfide (A4)		🔲 🖉 🖉 🗐 🖉	ed Matrix (F	2)		Piedmont	Floodplain Soils (F19) (LRR	P, S, T)
	I Layers (A5)		Depleted Ma	atrix (F3)	•			s Bright Loamy Soils (F20)	
5 cm Mi	icky Mineral (A7) /11	SRPTIN		ourtace (F6 ark Surface) (F7)			153B) ht Material (TE2)	
Muck Pr	esence (A8) (LRR L	J)	Redox Depr	essions (F8	() ()		Verv Shall	ow Dark Surface (TE12)	
🔲 1 cm Mu	ick (A9) (LRR P, T)	-	Marl (F10) (LRR U)	*		Other (Ex	plain in Remarks)	
	d Below Dark Surfac	æ (A11)	Depleted O	chric (F11) ((MLRA 1	(51)	···- · ·	,	
Thick Da	ark Surface (A12)		Iron-Manga	nese Masse	es (F12)	(LRR O, P,	T) ³ Indicato	rs of hydrophytic vegetation	and
Sandy M	Aucky Mineral (S1) (i	NILKA 150A) Umbric Sun	ace (F13) (I - (517) (MI	LRR P, DA 4541	1, 0)	wetland	d hydrology must be present	t,
Sandy C	eleyed Matrix (S4)		Reduced Vo	ertic (F18) (I	MLRA 1	50A. 150B)	uniess	disturbed of problematic.	
Sandy F	Redox (S5)		🔲 Piedmont F	loodplain So	oils (F19) (MLRA 14	19A)		•
Stripped	Matrix (S6)		Anomalous	Bright Loan	ny Soils	(F20) (MLR	A 149A, 153C, 15	53D)	
Dark Su	riace (S7) (LRR P, S	S, T, U)							
Type	Layer (ir observed)	:						/	
Depth (in	cher):								
Remarke:							Hydric Soil Pr	esent? Yes V No	·
Remarks.									
ł									
1									

Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp009e_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: <u>ACP</u> C	Sity/County: Northam pton Sampling Date: 4/8/15
Applicant/Owner: <u>Dominion</u>	State: NC Sampling Point: which OU9 Ew
Investigator(s): EST CROPER, TURNBUIL) 5	Section, Township, Range: none
Landform (hillslope, terrace, etc.):	ocal relief (concave, convex, none): <u>concave</u> Slope (%): <u>2-5</u>
Subregion (LRR or MLRA): LPP Lat: 36,5	27945 Long: -77, 38808 Datum: W/584
Soil Map Unit Name: We had lie Joam, frequently	Plooded NWI classification: PFU
Are climatic / hydrologic conditions on the site typical for this time of yea	IT? Yes No (If no, explain in Remarks)
Are Vegetation, Soil, or Hydrology significantly d	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soii, or Hydrology naturally prob	plematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophylic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: No No	Is the Sampled Area within a Wetland? Yes No
Rain within 24hrs,	
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide O Water Marks (B1) Oxidized Rhizosphe Sediment Deposits (B2) Presence of Reduce Drift Deposits (B3) Recent Iron Reduct Algal Mat or Crust (B4) Thin Muck Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in Recent Iron Reduct Water-Stained Leaves (B9) Field Observations:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) S) Sparsely Vegetated Concave Surface (B8) b) (LRR U) Drainage Patterns (B10) odor (C1) Moss Trim Lines (B16) eres along Living Roots (C3) Dry-Season Water Table (C2) ed iron (C4) Crayfish Burrows (C8) tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2) emarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo): <u>b</u> Wetland Hydrology Present? Yes <u>No</u>
Remarks:	

VEGETATION (Four Strata) -	Use scientific names of plants.
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EGETATION (Four Strata) – Use scientific na	mes ot pl	ants.	•	Sampling Point:
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>304 x 304)</u>	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. betula nigra	30	<u> </u>	FACM	That Are OBL, FACW, or FAC: (A)
2. <u>Carpinus Ucaroliniana</u>	5	<u>N</u>	EAC	Total Number of Dominant
3. Her Nonm	. 15	<u> </u>	FAC	Species Across All Strata:(B)
4. Dex DANIA		_N,	FAC	
5. Liberthimbar stracitla	10	N	FAC	Percent of Dominant Species
6.				
7	.			Prevalence Index worksheet:
9				Total % Cover of:Multiply by:
	-70			OBL species x 1 =
25			ver	FACW species x 2 =
50% of total cover: <u>50</u>	20% of	f total cover	: <u> </u>	
Sapling/Shrub Stratum (Plot size: <u>KOHAX SOFT</u>)	1.2	\$ 7	CAR	
1. CARPINUS CUIDINIANA	<u> 10 </u>	<u> </u>	FAL	ACO species x4 =
2. Hill rubran	10	<u> </u>	FAC	UPL species x 5 =
3. Ilex north	6	<u> </u>	<u>FAC</u>	Column Totals: (A) (B)
4		·· / ·	· · · · · · · · · · · · · · · · · · ·	
5.				
£	-		•	Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		· · · · ·		2 - Dominance Test is >50%
8			• •••••	3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 11	<u> </u>	f total cove	r: <u> </u>	
Herb Stratum (Plot size: 3044x3044)				¹ Indicators of bydric soil and wetland bydrology must
1. Juncus phosus	15	Y	OBL	be present, unless disturbed or problematic.
2 Arundinavia airantea	15	<u> </u>	FACIN	Definitions of Four Venetation Strata
		[*]	- <u></u> /	Semiliene er fear regeauen en au
۵		· ·		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
-		- <u></u>	<u> </u>	more in diameter at breast height (DBH), regardless of
5	·····	<u>.</u>		neight.
6				Sapling/Shrub - Woody plants, excluding vines, less
7			<u> </u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herh - All herbaceous (pon-woody) plants regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				
11				Woody vine – All woody vines greater than 3.28 ft in beight
10				Theight.
12. <u> </u>	20			
	<	= 10tal C	over	
50% of total cover:	<u>~</u> 20%	of total cov	er: <u>0</u>	-
Woody Vine Stratum (Plot size: <u>SDH+KSO+C</u>)				
1. <u>Smilax rotunditolia</u>	<u> </u>	_ <u>_ Y</u>	<u>FAC</u>	
2				
3				
4.				-
Б.		·····		-
V،	15			- Hydrophytic
	<u>د ان</u>	_ = Total C	over 🤈	Present? Vec Mo
50% of total cover: 1	<u>, </u>	of total cov	/er:	
Remarks: (If observed, list morphological adaptations b	elow).		· · · · · · · · · · · · · · · · · · ·	

SOIL

Profile Desc	ription: (Describe	to the depth r	needed to docur	nent the i	ndicator	or confirm t	the absence of indicators.)]
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture Remarks	
<u>U-20</u>	2.5131	100					CL	
								-
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	·							ĺ
								_
								~ 1
					·			-
<u> </u>						<u> </u>		_
¹ Type: C=Co	oncentration, D=Der	oletion, RM=Re	duced Matrix, M	S=Masked	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I	Indicators: (Applic	able to all LR	Rs, unless othe	rwise not	ed.)		Indicators for Problematic Hydric Soils ³ :	
🛄 Histosol	(A1)		🔲 Polyvalue Be	elow Surfa	ice (S8) (L	.RR S, T, U)) 🔲 1 cm Muck (A9) (LRR O)	
📋 Histic Ep	oipedon (A2)		🔲 Thin Dark St	urface (S9) (LRR S,	T, U)	2 cm Muck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	ky Mineral	(F1) (LRF	R O)	Reduced Vertic (F18) (outside MLRA 150A,	B)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix ((F2)		Piedmont Floodplain Soils (F19) (LRR P, S,	T)
Stratified	i Layers (A5)		Depleted Ma	atrix (F3)			L Anomalous Bright Loamy Soils (F20)	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (I	F6)		(MLRA 153B)	
	ICKY Mineral (A7) (L	RR P, T, U)	Depleted Da	irk Surface	∋ (F7)		Red Parent Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depr	essions (F	-8)		Very Shallow Dark Surface (TF12)	
	ICK (A9) (LRR P, 1)	- (0.1.4)	Mari (F10) (I	LRR U)		- 43	U Other (Explain in Remarks)	
	o Delow Dark Surface	ce (ATT)		:nric (1-11)	(MLKA 1	51) (IDD O D -		
	rairie Redov (A12)			iese mass	es (F12) (Indicators of hydrophytic vegetation and	
Sandy N	Aucky Mineral (S1) ((IRR O S)		ace (F13) (E47) (M	(ERR F, 1 1 DA 454)	, 0)	weiland hydrology must be present,	
Sandy G	Gleved Matrix (S4)		Beduced Ve	- (C 17) (M) artic (E18)	(MIRA 1	50A 150B)	unless disturbed of problematic.	
Sandy F	Redox (S5)			nodnlain S	Soile (F10)	1000, 1000) 1 (MI RA 440	9.4.9	
Stripped	i Matrix (S6)			Bright Los	mv Snils i	(E20) (MU R)	Δ 149Δ 153C 153D)	
Dark Su	Inface (S7) (LRR P,	S, T, U)		ongin 200		(, L oy (in L io		
Restrictive	Layer (if observed):						
Type:								
Depth (in	ches).						Hurdrin Soil Bropont? You his	
Remarks:							Hydric Son Present? Tes NO	
Remarks.								
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Wetland data point wnrp009f_w facing east.