Project/Site: Atlantic Coast Pipeline	City/County: Northampton	Sampling Date: <u>3/28/2015</u>
Applicant/Owner: DOMINION		State: NC Sampling Point: wnrc012e_w
••	Section, Township, Range: No.	
Landform (hillslope, terrace, etc.): drainage		
Subregion (LRR or MLRA): P		
Soil Map Unit Name: Tomotley fine sandy loam, 0 to 2 perce	nt slopes, rarely flooded	NW/ classification, PFO1A, PSS1A
Are climatic / hydrologic conditions on the site typical for this		_
Are Vegetation, Soil, or Hydrology sign	•	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing sampling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes ✓ No	is the Sampled Area	v V v
Wetland Hydrology Present? Yes   ✓ No		Yes No
Remarks:		
Data point taken within a disturbed powerline ROW.		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic F	auna (B13)	Sparsely Vegetated Concave Surface (B8)
	osits (B15) (LRR U)	✓ Drainage Patterns (B10)
✓ Saturation (A3) Hydroger	Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Ir	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
	k Surface (C7)	Geomorphic Position (D2)
	plain 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 Dep		
Water Table Present? Yes No Depr		_
Saturation Present? Yes No Deptilication (includes capillary fringe)	h (inches): Wetland H	lydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspections), if ava	ilable:
Remarks:		
Wetland hydrology		

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0 .			OBL species 20 x 1 = 20
50% of total cover:0		= Total Cov		FACW species 10 x 2 = 20
	20% of	total cover:		FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size:)				FACU species 10 x 4 = 40
1				UPL species 0 x 5 = 0
2				Column Totals: 90 (A) 230 (B)
3				
4				Prevalence Index = B/A =2.55
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0		= Total Cov	•	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:		
Herb Stratum (Plot size:5 )  1 Microstegium vimineum	50	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Scirpus cyperinus	15	No	OBL	Definitions of Four Vegetation Strata:
3. Achillea millefolium	10	No	FACU	_
4 Onoclea sensibilis	10	No	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Juncus effusus	5	No	OBL	height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Hart All harbanana (nan was da) alanta manadlara
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				neight.
12.	90	= Total Cov	er	
50% of total cover: 45		total cover:		
Woody Vine Stratum (Plot size:30 )	20 /0 01	total cover.	-	
,				
1				
2				
3				
5	0 :			Hydrophytic Vegetation
50% of total cover: 0		= Total Cov		Present? Yes No
30 /0 01 total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wnrc012e\_w

	cription: (Describe	to the depth				or confirm	the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 4/2		0 YR 3/6	5	C	PL	SL	remarks
	2.5 Y 6/2		0 YR 3/6		C	PL	SL -	
10-16	2.5 Y 0/2	95 1	U 1R 3/6				SL	
	_							_
	-			-				<del>-</del>
	-							
1Type: C=C	oncentration, D=Dep	etion PM=P	educed Matrix MS	S=Masker	I Sand Gr	aine	<sup>2</sup> l ocation: E	PL=Pore Lining, M=Matrix.
	Indicators: (Application)					uiiio.		or Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be			DD S T II		ick (A9) <b>(LRR O)</b>
	pipedon (A2)		Thin Dark Su					ick (A9) (LRR S)
	istic (A3)		Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			. •,		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma		,			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	T, U)	Redox Dark	, ,	6)			A 153B)
_	ucky Mineral (A7) (LR		Depleted Dai	•	,		•	ent Material (TF2)
	resence (A8) (LRR U		Redox Depre		. ,		Very Sha	allow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (E	xplain in Remarks)
Deplete	d Below Dark Surface	e (A11)	Depleted Ocl	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR O, P,		tors of hydrophytic vegetation and
Coast F	Prairie Redox (A16) <b>(N</b>	ILRA 150A)	Umbric Surfa	ice (F13) (	(LRR P, T	, U)	wetla	nd hydrology must be present,
	Mucky Mineral (S1) <b>(L</b>	.RR O, S)	Delta Ochric				unles	s disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
-	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loai	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 1	153D)
	ırface (S7) (LRR P, S	, T, U)					T	
Restrictive	Layer (if observed):							
Type:			_					.,
Depth (in	ches):						Hydric Soil P	resent? Yes No
Remarks:								
Hydric soil pr	esent							



Photo 1 Wetland data point wnrc012e\_w facing east



Photo 2
Wetland data point wnrc012e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/County:	Northampton		Sampling Date: 3/28/2015		
Applicant/Owner: DOMINION							
Investigator(s): Team C							
Landform (hillslope, terrace, etc.): Hill S							
Subregion (LRR or MLRA): P							
Soil Map Unit Name: Winton fine sandy	Lat.	t slones	Long	NNA/1 -116 -	Datum None		
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or I		-					
Are Vegetation, Soil, or I	Hydrologynati	urally problematic?	(If needed, ex	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - A	ttach site map sh	owing sampling	g point location	ns, transects	, important features, etc.		
Liverage dia Vanatatian Decoupt		v					
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No _ Yes No _	Is the	e Sampled Area				
Wetland Hydrology Present?	Yes No _	withi	n a Wetland?	Yes	No		
Remarks:							
Data point taken within a disturbed pow	verline ROW.						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is	required; check all tha	t apply)		Surface Soil			
Surface Water (A1)	Aquatic Fa			Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		sits (B15) <b>(LRR U)</b>	-	Drainage Pa			
Saturation (A3)		Sulfide Odor (C1)	·	Moss Trim L			
Water Marks (B1)		thizospheres along L	iving Roots (C3)		Water Table (C2)		
Sediment Deposits (B2)		of Reduced Iron (C4)		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iro	n Reduction in Tilled	Soils (C6)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck	Surface (C7)	<u>.</u>	Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Exp	lain in Remarks)	<u>.</u>	Shallow Aqu	itard (D3)		
Inundation Visible on Aerial Image	ery (B7)		<u>-</u>	FAC-Neutral	Test (D5)		
Water-Stained Leaves (B9)				Sphagnum n	noss (D8) <b>(LRR T, U)</b>		
Field Observations:							
Surface Water Present? Yes	No 🖍 Depth	(inches):					
Water Table Present? Yes	No 🖍 Depth	(inches):			ļ		
	No 🖍 Depth	(inches):	Wetland Hy	ydrology Preser	nt? Yes No		
(includes capillary fringe)  Describe Recorded Data (stream gauge	ne monitoring well aer	ial nhotos previous i	nspections) if avail	lahle:			
Describe Necorded Data (Stream gaug	ic, morntoring wen, acr	iai priotos, previous i	rispections), ii avaii	abic.			
Remarks:							
No wetland hydrology present					ļ		
3,7							
					ļ		
					ļ		
					ļ		

00	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2					
3.				Total Number of Dominant Species Across All Strata: 2	(B)
				Species Across All Strata.	(D)
4		-		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:	_
o	0			OBL species0 x 1 =0	_
0		= Total Cov		FACW species $0 \times 2 = 0$	
50% of total cover:0	20% o	f total cover:		FAC species 40 x 3 = 120	_
Sapling/Shrub Stratum (Plot size: 15 )				. 10	_
1				FACU species X 4 = X	_
2.				UPL species x 5 =	_
				Column Totals:50 (A)160	_ (B)
3					
4				Prevalence Index = B/A = 3.2	_
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7.					
		-		2 - Dominance Test is >50%	
8	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov	_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explai	n)
50% of total cover:0	20% o	f total cover:	0		
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology n	au ot
1. Andropogon virginicus	40	Yes	FAC	be present, unless disturbed or problematic.	iusi
2. Eupatorium capillifolium	10	Yes	FACU	,	
			1700	Definitions of Four Vegetation Strata:	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 c	cm) or
4				more in diameter at breast height (DBH), regardle	ess of
5				height.	
				O Line (Oh h. We a development a second discounting as	
6				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
7				than 3 iii. DBH and greater than 3.20 it (1 iii) taii.	
8				Herb – All herbaceous (non-woody) plants, regar	dless
9				of size, and woody plants less than 3.28 ft tall.	
10					<b>.</b> .
				<b>Woody vine</b> – All woody vines greater than 3.28	ft in
11				height.	
12					
	50	= Total Cov	er		
50% of total cover: 25	20% o	f total cover:	10		
Woody Vine Stratum (Plot size: 30 )					
1					
2					
3					
4					
5.					
5				Hydrophytic	
		= Total Cov	^	Vegetation Present? Yes No	
50% of total cover:0	20% o	f total cover:	0	riesent: res No	
Remarks: (If observed, list morphological adaptations below	w).				
( ,	,				

SOIL Sampling Point: wnrc012\_u

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-8	10 YR 3/3	100					SL		
8-16	10 YR 5/6	100					SL		
·									<del></del>
17			- de d NA-4-tre NA	2. Maralar	-1 01 0	- 1	21 ti DI	Dana Linian M. Matri	
	oncentration, D=Deple Indicators: (Application)					airis.		Pore Lining, M=Matrix Problematic Hydric S	
Histosol		bic to all Li	Polyvalue Be			DD C T II		•	iono .
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside N	ILRA 150A.B)
	en Sulfide (A4)		Loamy Gleye	-		-,		loodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		` ,			Bright Loamy Soils (F	
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA 1	53B)	
5 cm Mu	ucky Mineral (A7) <b>(LR</b>	R P, T, U)	Depleted Da	rk Surface	e (F7)			Material (TF2)	
	resence (A8) (LRR U)		Redox Depre		(8)			w Dark Surface (TF12	2)
	uck (A9) (LRR P, T)		Marl (F10) <b>(L</b>				Other (Expl	ain in Remarks)	
	d Below Dark Surface	(A11)	Depleted Oc				<b>T)</b> 31 m di anta un		
	ark Surface (A12) rairie Redox (A16) <b>(M</b>	I D A 150A)	<pre> Iron-Mangan Umbric Surfa</pre>					s of hydrophytic vegeta hydrology must be pro	
	/ucky Mineral (S1) <b>(L</b>		Delta Ochric			, 0)		isturbed or problemat	
	Gleyed Matrix (S4)	0, 0,	Reduced Ver			0A. 150B)	amooo a	lotar boa or problemat	
	Redox (S5)		Piedmont Flo				9A)		
-	Matrix (S6)						A 149A, 153C, 153	D)	
Dark Su	rface (S7) (LRR P, S,	T, U)							
Restrictive	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):		<u></u>				Hydric Soil Pres	sent? Yes	No
Remarks:							l		
No hydric soil	present								



Photo 1 Upland data point wnrc012\_u facing south



Photo 2
Upland data point wnrc012\_u facing west

Project/Site: Atlantic Coast Pipeline		City/Count	<sub>y:</sub> Northampton		Sampling Date: 3/28/2015	
Applicant/Owner: DOMINION			S	State: NC	Sampling Point: wnrc012f_w	
		Section, To				
Landform (hillslope, terrace, etc.): draina						
Subregion (LRR or MLRA): P		1 at: 36.53653346	Long: -7	7.35871129	Datum: WGS 1984	
Soil Map Unit Name: Tomotley fine sand	ly loam. 0 to 2 pe	_ Lat. ercent slopes, rarely floor	Long ded	NIVA/I oloooifia	Datum	
Are climatic / hydrologic conditions on th						
Are Vegetation, Soil, or H	-				oresent? Yes No	
Are Vegetation, Soil, or F	Hydrology	_ naturally problematic?	(If needed, ex	xplain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – At	tach site ma	p showing samplir	ng point location	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present?	Yes 🔽	No lead				
Hydric Soil Present?	Yes 🔽	No.	he Sampled Area hin a Wetland?	Voc. V	No	
Wetland Hydrology Present?	Yes	No	iiii a vvetianu :	1es	NO	
HYDROLOGY				0 1 1 1		
Wetland Hydrology Indicators:		all the at a country)	•		otors (minimum of two required)	
Primary Indicators (minimum of one is a	-			Surface Soil	, ,	
Surface Water (A1) ✓ High Water Table (A2)		tic Fauna (B13) Deposits (B15) <b>(LRR U)</b>		Sparsely veo	getated Concave Surface (B8)	
Saturation (A3)		ogen Sulfide Odor (C1)		Moss Trim Li		
Water Marks (B1)	-	zed Rhizospheres along	Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)		ence of Reduced Iron (C4	-	Crayfish Burrows (C8)		
Drift Deposits (B3)	Rece	nt Iron Reduction in Tille	d Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Muck Surface (C7)			Position (D2)	
Iron Deposits (B5)		(Explain in Remarks)		Shallow Aqu		
Inundation Visible on Aerial Image	ry (B7)			FAC-Neutral	` '	
Water-Stained Leaves (B9) Field Observations:			<u> </u>	Spnagnum n	noss (D8) <b>(LRR T, U)</b>	
	No <u> </u>	Denth (inches):				
	No [					
	No [		Wetland H	ydrology Preser	nt? Yes ✔ No	
(includes capillary fringe)					100 110	
Describe Recorded Data (stream gaug	e, monitoring we	ll, aerial photos, previous	s inspections), if avail	lable:		
Remarks:						
Wetland hydrology present						

00	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus taeda	40	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Acer rubrum	10	No	FAC	Total Number of Descinant
3. Quercus alba	5	No	FACU	Total Number of Dominant Species Across All Strata:  4 (B)
4.				Openies / torous / tir otrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	55	= Total Cove	er	OBL species X1 =
50% of total cover: 27.5		total cover:	11	FACW species0 x 2 =0
	20 /6 01	lulai cuvei.		FAC species75
Sapling/Shrub Stratum (Plot size: 15 )	4.5	V	E40	FACU species5 x 4 =20
1. Acer rubrum	15	Yes	FAC	0
2. Ilex opaca	10	Yes	FAC	UPL species x 5 =
3				Column Totals: (A) 250 (B)
				2.04
4				Prevalence Index = B/A =2.94
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
<u> </u>	25	= Total Cove	or	
12 5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 12.5	20% of	total cover:		
Herb Stratum (Plot size:5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Juncus effusus	5	Yes	OBL	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				g.m
12				
2.5		= Total Cove		
50% of total cover: 2.5	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cove	or .	Vegetation
50% of total cover: 0				Present? Yes No
		total cover:		
Remarks: (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wnrc012f\_w



Photo 1
Wetland data point wnrc012f\_w facing west



Photo 2
Wetland data point wnrc012f\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Northampton	Sampling Date: <u>3/28/2015</u>
Applicant/Owner: DOMINION		State: NC Sampling Point: wnrc012e_w
••	Section, Township, Range: No.	
Landform (hillslope, terrace, etc.): drainage		
Subregion (LRR or MLRA): P		
Soil Map Unit Name: Tomotley fine sandy loam, 0 to 2 perce	nt slopes, rarely flooded	NW/ classification, PFO1A, PSS1A
Are climatic / hydrologic conditions on the site typical for this		_
Are Vegetation, Soil, or Hydrology sign	•	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing sampling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes ✓ No	is the Sampled Area	v V v
Wetland Hydrology Present? Yes   ✓ No		Yes No
Remarks:		
Data point taken within a disturbed powerline ROW.		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic F	auna (B13)	Sparsely Vegetated Concave Surface (B8)
	osits (B15) (LRR U)	✓ Drainage Patterns (B10)
✓ Saturation (A3) Hydroger	Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence	of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Ir	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
	k Surface (C7)	Geomorphic Position (D2)
	plain 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 Dep		
Water Table Present? Yes No Depr		_
Saturation Present? Yes No Deptilication (includes capillary fringe)	h (inches): Wetland H	lydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspections), if ava	ilable:
Remarks:		
Wetland hydrology		

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	0 .			OBL species 20 x 1 = 20
50% of total cover:0		= Total Cov		FACW species 10 x 2 = 20
	20% of	total cover:		FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size:)				FACU species 10 x 4 = 40
1				UPL species 0 x 5 = 0
2				Column Totals: 90 (A) 230 (B)
3				
4				Prevalence Index = B/A =2.55
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0		= Total Cov	•	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:0	20% of	total cover:		
Herb Stratum (Plot size:5 )  1 Microstegium vimineum	50	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Scirpus cyperinus	15	No	OBL	Definitions of Four Vegetation Strata:
3. Achillea millefolium	10	No	FACU	_
4 Onoclea sensibilis	10	No	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Juncus effusus	5	No	OBL	height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Hart All harbarassa (rangusa da) alanta sanggilara
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				neight.
12.	90	= Total Cov	er	
50% of total cover: 45		total cover:		
Woody Vine Stratum (Plot size:30 )	20 /0 01	total cover.	-	
,				
1				
2				
3				
5	0 :			Hydrophytic Vegetation
50% of total cover: 0		= Total Cov		Present? Yes No
30 /0 01 total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wnrc012e\_w

	cription: (Describe	to the depth				or confirm	the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 4/2		0 YR 3/6	5	C	PL	SL	remarks
	2.5 Y 6/2		0 YR 3/6		C	PL	SL -	
10-16	2.5 Y 0/2	95 1	U 1R 3/6				SL	
	_							_
	-			-				<del>-</del>
	-							
1Type: C=C	oncentration, D=Dep	etion PM=P	educed Matrix MS	S=Masker	I Sand Gr	aine	<sup>2</sup> l ocation: E	PL=Pore Lining, M=Matrix.
	Indicators: (Application)					uiiio.		or Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be			DD S T II		ick (A9) <b>(LRR O)</b>
	pipedon (A2)		Thin Dark Su					ick (A9) (LRR S)
	istic (A3)		Loamy Muck					d Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			. •,		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		✓ Depleted Ma		,			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	T, U)	Redox Dark	, ,	6)			A 153B)
_	ucky Mineral (A7) (LR		Depleted Dai	•	,		•	ent Material (TF2)
	resence (A8) (LRR U		Redox Depre		. ,		Very Sha	allow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (E	xplain in Remarks)
Deplete	d Below Dark Surface	e (A11)	Depleted Ocl	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR O, P,		tors of hydrophytic vegetation and
Coast F	Prairie Redox (A16) <b>(N</b>	ILRA 150A)	Umbric Surfa	ice (F13) (	(LRR P, T	, U)	wetla	nd hydrology must be present,
	Mucky Mineral (S1) <b>(L</b>	.RR O, S)	Delta Ochric				unles	s disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
-	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Anomalous E	Bright Loai	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 1	153D)
	ırface (S7) (LRR P, S	, T, U)					T	
Restrictive	Layer (if observed):							
Type:			_					.,
Depth (in	ches):						Hydric Soil P	resent? Yes No
Remarks:								
Hydric soil pr	esent							



Photo 1 Wetland data point wnrc012e\_w facing east



Photo 2
Wetland data point wnrc012e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/County: Northampton Sampling Date: 3/28/2015						
Applicant/Owner: DOMINION		City/County: Northampton Sampling Date: 3/28/2015 State: NC Sampling Point: wnrc012_u						
Investigator(s): Team C	Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): Hill S								
Subregion (LRR or MLRA): P								
Soil Map Unit Name: Winton fine sandy	Lat.	t slones	Long	NNA/1 -116 -	Datum None			
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or I		-						
Are Vegetation, Soil, or I	Hydrologynati	urally problematic?	(If needed, ex	xplain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - A	ttach site map sh	owing sampling	g point location	ns, transects	, important features, etc.			
Liverage dia Vanatatian Decoupt		v						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No _ Yes No _	Is the	e Sampled Area					
Wetland Hydrology Present?	Yes No _	withi	n a Wetland?	Yes	No			
Remarks:								
Data point taken within a disturbed pow	verline ROW.							
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; check all tha	t apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fa			Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		sits (B15) <b>(LRR U)</b>	-	Drainage Pa				
Saturation (A3)		Sulfide Odor (C1)	·	Moss Trim L				
Water Marks (B1)		thizospheres along L	iving Roots (C3)		Water Table (C2)			
Sediment Deposits (B2)		of Reduced Iron (C4)		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iro	n Reduction in Tilled	Soils (C6)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck	Surface (C7)	<u>.</u>	Geomorphic	Position (D2)			
Iron Deposits (B5)	Other (Exp	lain in Remarks)	<u>.</u>	Shallow Aqu	itard (D3)			
Inundation Visible on Aerial Image	ery (B7)		<u>-</u>	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)				Sphagnum n	noss (D8) <b>(LRR T, U)</b>			
Field Observations:								
Surface Water Present? Yes	No 🖍 Depth	(inches):						
Water Table Present? Yes	No 🖍 Depth	(inches):			ļ			
	No 🖍 Depth	(inches):	Wetland Hy	ydrology Preser	nt? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge	ne monitoring well aer	ial nhotos previous i	nspections) if avail	lahle:				
Describe Necorded Data (Stream gaug	ic, morntoring wen, acr	iai priotos, previous i	rispections), ii avaii	abic.				
Remarks:								
No wetland hydrology present					ļ			
3,7								
					ļ			
					ļ			
					ļ			

00	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2					
3.				Total Number of Dominant Species Across All Strata: 2	(B)
				Species Across All Strata.	(D)
4				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:	_
o	0			OBL species0 x 1 =0	_
0		= Total Cov		FACW species $0 \times 2 = 0$	
50% of total cover:0	20% o	f total cover:		FAC species 40 x 3 = 120	_
Sapling/Shrub Stratum (Plot size: 15 )				. 10	_
1				FACU species X 4 = X	_
2.				UPL species x 5 =	_
				Column Totals:50 (A)160	_ (B)
3					
4				Prevalence Index = B/A = 3.2	_
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7.					
		-		2 - Dominance Test is >50%	
8	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov	_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explai	n)
50% of total cover:0	20% o	f total cover:	0		
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology n	au ot
1. Andropogon virginicus	40	Yes	FAC	be present, unless disturbed or problematic.	iusi
2. Eupatorium capillifolium	10	Yes	FACU	,	
			1700	Definitions of Four Vegetation Strata:	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 c	cm) or
4				more in diameter at breast height (DBH), regardle	ess of
5				height.	
				O Line (Oh h. We a development a second discounting and	
6				Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
7				than 3 iii. DBH and greater than 3.20 it (1 iii) taii.	
8				Herb – All herbaceous (non-woody) plants, regar	dless
9				of size, and woody plants less than 3.28 ft tall.	
10					<b>.</b> .
				<b>Woody vine</b> – All woody vines greater than 3.28	ft in
11				height.	
12					
	50	= Total Cov	er		
50% of total cover: 25	20% o	f total cover:	10		
Woody Vine Stratum (Plot size: 30 )					
1					
2					
3					
4					
5.					
5				Hydrophytic	
		= Total Cov	^	Vegetation Present? Yes No	
50% of total cover:0	20% o	f total cover:	0	riesent: res No	
Remarks: (If observed, list morphological adaptations below	w).				
( ,	,				

SOIL Sampling Point: wnrc012\_u

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-8	10 YR 3/3	100					SL		
8-16	10 YR 5/6	100					SL		
·									<del></del>
					· <del></del>				
17			- de d NA-4-io - NA	2. Maralar	-1 01 0	- 1	21 ti DI	Dana Linian M. Matri	
	oncentration, D=Deple Indicators: (Application)					airis.		Pore Lining, M=Matrix Problematic Hydric S	
Histosol		bic to all Li	Polyvalue Be			DD C T II		•	iono .
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside N	ILRA 150A.B)
	en Sulfide (A4)		Loamy Gleye	-		-,		loodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		` ,			Bright Loamy Soils (F	
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA 1	53B)	
5 cm Mu	ucky Mineral (A7) <b>(LR</b>	R P, T, U)	Depleted Da	rk Surface	e (F7)			Material (TF2)	
	resence (A8) (LRR U)		Redox Depre		(8)			w Dark Surface (TF12	2)
	uck (A9) (LRR P, T)		Marl (F10) <b>(L</b>				Other (Expl	ain in Remarks)	
	d Below Dark Surface	(A11)	Depleted Oc				<b>T)</b> 31 m di anta un		
	ark Surface (A12) rairie Redox (A16) <b>(M</b>	I D A 150A)	<pre> Iron-Mangan Umbric Surfa</pre>					s of hydrophytic vegeta hydrology must be pro	
	/ucky Mineral (S1) <b>(L</b>		Delta Ochric			, 0)		isturbed or problemat	
	Gleyed Matrix (S4)	0, 0,	Reduced Ver			0A. 150B)	amooo a	lotar boa or problemat	
	Redox (S5)		Piedmont Flo				9A)		
-	Matrix (S6)						A 149A, 153C, 153	D)	
Dark Su	rface (S7) (LRR P, S,	T, U)							
Restrictive	Layer (if observed):								
Type:			<u>—</u>						
Depth (in	ches):		<u></u>				Hydric Soil Pres	sent? Yes	No
Remarks:							l		
No hydric soil	present								



Photo 1 Upland data point wnrc012\_u facing south



Photo 2
Upland data point wnrc012\_u facing west

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: \_ACP Applicant/Owner: Dominion Investigator(s): ESI (Roper, Turnbull) Section, Township, Range: Non-e Landform (hillslope, terrace, etc.): 1errace Local relief (concave, convex, none):  $\pm 1a$ Lat: 36,53814 Subregion (LRR or MLRA): LL Soil Map Unit Name: Rounoke silt loam, occasionally Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ \_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **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 (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) ☐ Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No \_\_\_\_ Depth (inches): Water Table Present? Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Sampling Point: Warp 018 Lw

326+306+		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft		Species?	<del></del>	Number of Dominant Species
1. Liquidambar styraliflua	<u> 15</u>		FAC	That Are OBL, FACW, or FAC:  (A)
2. Itex opaco	<u> 19</u>	<del></del>	FAC	Total Number of Dominant
3. Acertobrum	10	<u> </u>	FAC	Species Across All Strata: (B)
4.				Demand of Deminsural Country
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	35	= Total Cov	/er	OBL species x 1 =
50% of total cover: 17				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)	2076 01	(Otal Cover		FAC species x 3 =
1. Ilex opaca	ς,	6.1	FHC	FACU species x 4 =
2. Liquidambar 6tyracifloa	_ <del>_</del>	<del>-/-</del>	FAC	UPL species x 5 =
_ II				Column Totals: (A) (B)
3		<del></del>		(3)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	10	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:		f total cove	ent the	Froblematic hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30ft x30ft)		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
1. Arundinaria gigantea	20	V	FACH	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Vitis rotunditolia	5	· —	FAC	
			· <del></del>	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			<u> </u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12	_	_	_	- Morgini
	2.5	_ = Total C	over	•
50% of total cover:	215 200	Italiano	over 5	
50% of total cover:	20%	or total cove	تا. <u></u> _	- }
Woody Vine Stratum (Plot size: 30ft x30ft)  1. Smilax Cutund folia	c	V	FAC	<u> </u>
		_ —	PAL	-
2				-
3				_
4		_		_
5				- Hydrophytic
	5	= Total C	over	Variation
50% of total cover: 2		of total cov		Present? Yes No No
		OI (O(a) COV	VI	
Remarks: (If observed, list morphological adaptations b	ciuw).			
1				

Profile Desc	ription: (Describe	to the dept	needed to docu	nent the in	dicator	or confirm	the absence of	of indicators.)
Depth (inches)	Matrix Color (moint)	<u></u> %		x Features	<b>7°.</b> 1	12	<b>T</b> - •	
<u>(inches)</u> ひーし	Color (moist)	100	Color (moist)	%	Type¹	_Loc <sup>2</sup>	Texture	Remarks
	2.5/5/2		20 51			A 4		
6-20	2.5 / 5/2	<u> 70</u> .	10 YR 5/6	<u> 50</u>				
			<del> </del>					
			***					
		·						
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion. RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> i ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all l	RRs, unless othe	rwise note	d.)			for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol			Polyvalue B				) 🛄 1 cm M	luck (A9) (LRR O)
	oipedon (A2)		Thin Dark S					luck (A10) (LRR S)
ı <del>=</del>	istic (A3)		Loamy Much			R O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted Ma		-2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)			lous Bright Loamy Soils (F20) RA 153B)
	ucky Mineral (A7) (LI		Depleted Da					erent Material (TF2)
Muck Pr	resence (A8) (LRR U		Redox Depr	essions (F8			└─ Very S	hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	- 40445	Marl (F10) (	•			Other (	Explain in Remarks)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Or Iron-Mangar		-	-	T) 3India	ators of hydrophytic vegetation and
	rairie Redox (A16) (I	VILRA 150A					•	land hydrology must be present,
	Mucky Mineral (S1) (		Delta Ochrid					ess disturbed or problematic.
===	Gleyed Matrix (S4)		Reduced Ve				ı	
	Redox (S5)		Piedmont F					
	i Matrix (S6) Irface (S7) (LRR P, S	2 T III	Anomalous	Bright Loar	ny Soils	(F20) (MLR	RA 149A, 153C	, 153D)
	Layer (if observed)							
Type:	, ( ,							
1	iches):		<del></del>				Hydric Soil	Present? Yes No
Remarks:								
<u> </u>								
ł								
						,		



Wetland data point wnrp018f\_w facing southeast.



Wetland data point wnrp018f\_w facing south.

Project/Site: ACP	City/County: Northampton Sampling Date: 6/9/15
Applicant/Owner: <u>Dominion</u>	State: NC Sampling Point: Why POIR u
Investigator(s): FSI ( Poper, Turnbull)	Section, Township, Range: VONC
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): 100 e Slope (%): 0 - 31/
Subregion (LRR or MLRA): LPP P Lat: 36	.53821 Long: -77.35074 Datum: W6584
Soil Map Unit Name: Altavista fine sandy loan	10-31, Slopes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes No Yes No Wetland Hydrology Present?  Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No Version No Version No No Version No Version No No Version No Version No Version No No Version No V	-
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
☐ Surface Water (A1) ☐ Aquatic Fauna (B☐ High Water Table (A2) ☐ Marl Deposits (B <sup>-</sup>	
Saturation (A3)  Hydrogen Sulfide	
	pheres along Living Roots (C3)
Sediment Deposits (B2) Presence of Red	
	uction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche present)	es): <u>N A</u>
Saturation Present? Yes No Depth (inch (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

VEGETATION	(Four	Strata)	) —	Use	scientific	names	of	plants.
			,					

The state of the s	1100 Ot pi			Samping Four
Tree Stratum (Plot size: 30ft x 30ft)		Dominant		Dominance Test worksheet:
Tree Stratum (Flot size: 3011 x3011)		Species?		Number of Dominant Species
1. Liquidambor styracitla	15	<u></u>	EAC.	That Are OBL, FACW, or FAC: (A)
2. Ilex opaca	<u></u>	<u> </u>	<u>PAC</u>	Tatal Mountain of Developed
3. Quercus alba	5	N	FY4(u	Total Number of Dominant Species Across All Strata: (B)
4. Pinus taeda	-5	$\overline{N}$	PAC	opedica Neroda Air Otrata.
				Percent of Dominant Species
5			<del></del>	That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	35	= Total Cov	/er	OBL species x 1 =
50% of total cover: 17.				FACW species x 2 =
	<u> </u>	total cover	`	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30+1×30+1)	co*	N.	COAL	
1. Vacunium corymbosum	-		THUW	FACU species x 4 =
2		£		UPL species x 5 =
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				l ——,
		= Total Cov		3 - Prevalence Index is ≤3.0¹
		·		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	·	
Herb Stratum (Plot size: 30ftx30ft)				Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	15	<u> </u>	FACW	be present, unless disturbed or problematic.
2		- 1		Definitions of Four Vegetation Strata:
				Dominions of Four Vegetation Citata.
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tail.
10				Woody vine – All woody vines greater than 3.28 ft in
11,				height.
12				
	16	= Total Co		
50% of total cover:	<u></u>	- Iulai Cu	™)	
50% of total cover: / to	<u>)</u> 20% o	f total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 30f+x30f4)				
1. none				
2				
3				
4.				
5	_			Hydrophytic
	0	_= Totai Co	over	Vegetation
50% of total cover:				Present? Yes No
		n total cove	71.	
Remarks: (If observed, list morphological adaptations be	omy			
	OW).			



Upland data point wnrp018\_u facing northwest.



Upland data point wnrp018\_u facing northeast.

Project/Site: ACP	City/Co	unty: Northar	moton sami	oling Date: <u>6/9/15</u>
Applicant/Owner: Dominion			State: NC Samp	oling Point: WArp 017e.u
nvestigator(s): ESI (Roper, Turn)	OU II) Section	n, Township, Range: <u>\</u>	10ne	
andform (hillslope, terrace, etc.): Terrace	Local re	elief (concave, convex, i	none): <u>flat</u>	Slope (%): <u>0 - 3 '</u> /
Subregion (LRR or MLRA): LPP P	Lat: 36.539	14 Long: <u> </u>	77.34778	Datum: <u>ს</u> წამე
Soll Map Unit Name: <u>Altavista fine san</u>			NWI classification:	PEM
Are climatic / hydrologic conditions on the site typical for t	this time of year? Ye	es No (	(If no, explain in Remark	(s.)
Are Vegetation, Soil, or Hydrology	_ significantly disturb	ed? Are "Normal	Circumstances" presen	il? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally problemat		explain any answers in F	
SUMMARY OF FINDINGS - Attach site ma	p showing sam	pling point locatio	ons. transects. imi	portant features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled Area	A Control of the Cont	>
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No
Remarks:				
powerline easement	t, con	servatio	on area	1
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)		Surface Soil Crac	····
Surface Water (A1)	atic Fauna (B13)			ed Concave Surface (B8)
	Deposits (B15) (LRF	₹ U)	Drainage Patterns	s (B10)
	rogen Sulfide Odor (0		Moss Trim Lines	
	dized Rhizospheres a sence of Reduced Iro	long Living Roots (C3)	Dry-Season Wate	ì
] r=-	ent Iron Reduction in			on Aerial Imagery (C9)
	Muck Surface (C7)		Geomorphic Posi	• • • •
	er (Explain in Remarl	ks)	Shallow Aquitard	' '
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Tes	
Water-Stained Leaves (B9)				(D8) (LRR T, U)
Surface Water Present? Yes No	Depth (inches):	2,"		
Water Table Present? Yes V No	Depth (inches): 4	rface		ر
Saturation Present? Yes No	Depth (inches): 10	~	Hydrology Present?	Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring w	well agrial photos pr	evicus inspections) if a	railahla:	
Sesone recorded bata (stream gadge, monitoring w	veli, aeriai pilotoa, pi	evious inspections), it as	vanabic.	
Remarks:				without ,

VEGETATION (	Four Strata	- Use	scientific	names	of	plants

- 10217111011 (Four Othera) Coc objettitio Har	<u> </u>	Sampling Point:
Tree Stratum (Plot size: 30ft x 30ff	Absolute Dominant Indi <u>% Cover Species?</u> St	
1 1/10/10		indumber of Dominant Species
2		
3.		Species Across All Strata: (B)
4.		
5		Percent of Dominant Species
6		
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8	Total Cover	
	= Total Cover	OBL species x1 =
50% of total cover	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 + x30 +)		FAC species x3 =
1. none		FACU species x 4 =
2.		UPL species x 5 =
3		
4		
5.		
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	O = Total Cover	} ======
50% of total cover:		Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30ft x 30ft)	20 % of total cover	
1. Juneus effusus	40 Y O	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. JONEUR ETTOSUS		
2. Arundinavia gigantea	10 N F	Definitions of Four Vegetation Strata:
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		
6	. ?	
7		
8		
9		
10		Woody vine – All woody vines greater than 3.28 ft in
11	·	height.
12		
	70 = Total Cover	
50% of total cover: _35		6 <sub>0</sub>
Woody Vine Stratum (Plot size: 30ff x30ff)	20 70 OF TOTAL GOVER,	<del>`                                    </del>
•		
1. none		
2		
3		
4		
5		The description of
	= Total Cover	Hydrophytic Vegetation
MONE - FILLS		Procent? Vec \ No
50% of total cover:		100
Remarks: (If observed, list morphological adaptations bel	ow).	

Profile Desc	ription: (Describe t	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence o	f indicators.)
Depth Matrix			Redox Features			1 - 2	Tt-	
(inches) O- 8	Color (moist)	100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture .	Remarks
		<del></del>	- 1 A ed	1				
8-50	10 16 11	90 ]	DYREL	<u> 10 </u>	_(	<u> </u>	<u>CL</u>	
				_				
					-			
								· · · · · · · · · · · · · · · · · · ·
¹Type: C=C	oncentration, D=Depl	letion, RM=Re	educed Matrix, M	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: I	PL=Pore Lining, M=Matrix.
	Indicators: (Applica							or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue B	elow Surfa	ice (S8) (I	RR S, T, U	l) 🔲 1 cm Mı	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark S	urface (S9	) (LRR S,	T, U)		uck (A10) (LRR S)
	istic (A3)		Loamy Mucl			₹ 0)	Reduce	d Verlic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)			nt Floodplain Soils (F19) (LRR P, S, T)
. ==	d Layers (A5)		Depleted Ma					ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark					A 153B)
	ucky Mineral (A7) (LF resence (A8) (LRR U		Depleted Da					rent Material (TF2)
	uck (A9) (LRR P, T)	1	Redox Depr	-	·o)			nallow Dark Surface (TF12) Explain in Remarks)
	d Below Dark Surface	e (A11)	Depleted O		(MIRA	151)	Unter (t	explain in Remarks)
	ark Surface (A12)	o ( ,	Iron-Manga			•	T) <sup>3</sup> Indica	ators of hydrophytic vegetation and
	rairie Redox (A16) (N	VILRA 150A)	Umbric Surf				•	and hydrology must be present.
	Mucky Mineral (S1) (L		Delta Ochri					ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Vo	ertic (F18)	(MLRA 1	50A, 150B)	+	·
	Redox (S5)		Piedmont F					
	d Matrix (S6)			Bright Loa	amy Soils	(F20) (MLR	RA 149A, 153C,	153D)
	urface (S7) (LRR P, S							
ì	Layer (if observed):	•						
Type:							Ì	
Depth (ir	nches):		<del>_</del>				Hydric Soil	Present? Yes No
Remarks:								



2 [] 2 []	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)		Species?		Number of Dominant Species
1. Queccus michauxii	10	<u> </u>	FACW	That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	15	<u></u>	FAC.	Total Number of Dominant
3. Aler rubrum	15	<u>Y</u>	FAC	Species Across All Strata:
4. Betwee mara	_5	$\overline{N}$	FACW	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	45	= Total Cov	er	OBL species x 1 =
50% of total cover: 22	5 20% of	total cover	9	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 ft x 30ff)				FAC species x 3 =
1 JERN ODACA	10	٧	FAC	FACU species x 4 =
2. Liquidimber styracitlua	5	Y	FAC	UPL species x 5 =
3. Acer rubrum		Ż	FAC	Column Totals: (A) (B)
4.		*		
				Prevalence Index = B/A =
5	· <del></del>	•		Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8		T-1-1-0		3 - Prevalence Index is ≤3.0¹
7001 r		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10 Herb Stratum (Plot size: 30 + x 30 + x	<u>/</u> 20% o	t total cover	:	and the state of t
Herb Stratum (Plot size:	m n	<b>\(\)</b>	e e e e e	1indicators of hydric soil and wetland hydrology must
1. Arundinaria givantea	<u> </u>	<u> </u>	THOM	be present, unless disturbed or problematic.
Ζ.				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	<del>.</del>	·		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	<u></u>			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> 30</u>	= Total Co	ver	
50% of total cover:		- of total cove		
Woody Vine Stratum (Plot size: 30 ft 30 ft)				
1. Smilax rotundifolia	lo	V	FAC	
2. Vitis rotundifolia	4	V	CHA	
3			- <del></del>	
4		-	-	
5				
-		_ = Total Co		Hydrophytic Vegetation
50% of total cover: 7.				Present? Yes No No
		oi total cove	:r	
Remarks: (If observed, list morphological adaptations be	iow}.			

	ription: (Describe	to the depth				or confirm	the absence of ind	icators.)
Depth (inches)	Matrix Color (moist)	<u></u> %		ox Feature		Loc <sup>2</sup>	Tardress	Dames In
(inches)	10 YR 3/2		Color (moist)	%	Type <sup>1</sup>		Texture	Remarks
		100					<u> </u>	
4-20	10 18 21	<u> </u>	10 YR 5/6	<u>20</u>	<u> </u>	-	SCL	
				_				
		·	•					
¹Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, N	//S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: PL=F	ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	.RRs, unless oth	erwise not	ed.)			roblematic Hydric Soils³:
. Histosol	(A1)		Polyvalue E	Below Surfa	ice (S8) (L	.RR S, T, U	l) 🛄 1 cm Muck (.	A9) (LRR O)
	pipedon (A2)		Thin Dark S					A10) (LRR S)
ı <del></del>	istic (A3)		Loamy Mud			R O)		rtic (F18) (outside MLRA 150A,B)
1 == -	en Sulfide (A4)		Loamy Gle		(F2)			oodplain Soils (F19) (LRR P, S, T)
1 7	d Layers (A5) : Bodies (A6) (LRR P	T 111	Depleted M Redox Darl		E6)			Bright Loamy Soils (F20)
	ucky Mineral (A7) (LI		Depleted D				(MLRA 15	Material (TF2)
	resence (A8) (LRR L		Redox Dep					v Dark Surface (TF12)
	uck (A9) (LRR P, T)	•	☐ Marl (F10)	-	•			in in Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted C	chric (F11)	(MLRA 1	51)		•
	ark Surface (A12)		lron-Manga					of hydrophytic vegetation and
	Prairie Redox (A16) (I							nydrology must be present,
1 <del></del>	Mucky Mineral (S1) (	LRR O, S)	Delta Ochr		-			sturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)					50A, 150B) ) (MLRA 14		
	d Matrix (S6)			-	-	- •	+9A) RA 149A, 153C, 153	D)
	urface (S7) (LRR P,	S, T, U)	<u>,</u> ,o	o brigin con	arry cono	(1 20) (1112)	(A 140A, 1000, 100	2)
	Layer (if observed)							
Type:			-					
Depth (i	nches):						Hydric Soil Pres	sent? Yes V
Remarks:								· 10-00-00-00-00-00-00-00-00-00-00-00-00-0
1								
1								
1								



Wetland data point wnrp017f\_w facing southwest.



Wetland data point wnrp017f\_w facing northwest.

Project/Site: ACP	City/County: Nov tham pton Sampling Date: 6/9/15
Applicant/Owner: Dominion	State: NC Sampling Point: WnrpDI7-u
Investigator(s): EST (Roper, Turnbull)	Section Township Penns 1/2 DV/
	Local relief (concave, convex, none): flat Slope (%): 0-3//
Subregion (LRR or MLRA): L P P Lat: 36.	
Subregion (LRR or MLRA): Lat: 300	.53910 Long: -77,34758 Datum: W.6.584
· ·	asionally flooded NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of	•
Are Vegetation, Soil, or Hydrology significant	atly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	- Within a wetgand? Tes
Remarks:	
Road through conservation	n area - on fill material (sand over grave)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	
Surface Water (A1)	
High Water Table (A2) Saturation (A3)  High Water Table (A2) Hydrogen Sulfid	
	de Odor (C1)
Sediment Deposits (B2)  Presence of Rec	
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	face (C7) Geomorphic Position (D2)
Iron Deposits (B5) Under (Explain i	
inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (incl	thes); NA
Water Table Present? Yes No Depth (incl	
Saturation Present? Yes No Depth (incl	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pi	ohotos, previous inspections), if available:
Remarks:	

The Charles of the 16 Car & 40ft	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:
2		Total Number of Dominant Species Across All Strata:  (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.		
7.		Prevalence index worksheet:
8.		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 18++ + 40++)		FAC species x 3 =
1 100100		FACU species x 4 =
		UPL species x 5 =
2.		Column Totals: (A) (B)
3		(0)
4.		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.0¹
	= Total Cover	
50% of total cover	20% of total cover:	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 15 ff x 40ff)	20 % Of total cover.	• }
	in V con	Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	_ 10 _ Y FAC	be present, unless disturbed or problematic.
Z		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		Continue/Church Manda to the control of the control
7		<ul> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</li> </ul>
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.		<b></b>
r.	Total Cover	
50% of total coyer:	20% of total cover: 2	_
Woody Vine Stratum (Plot size: 15ft x40ft)	* A	
1. <u>Smilax</u> rotundifolia	6 Y FAC	
2		
3		
	·	-
5		- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations b	pelow).	
	•	
roadside veg.		
<u> </u>		

Profile Desc	cription: (Describe	to the depti	n needed to docur	nent the indica	tor or confirm	the absence of ir	idicators.)	
Depth	<u>Matrix</u>	<u></u> %		x Features		<b>-</b> .		
(inches)	Color (moist)		Color (moist)	<u> % Tyr</u>	oe¹ Loc²	Texture	Remarks	
<u>n-b</u>	10184/2	<u> 100 </u>		. <del> </del>		<u> </u>		
		-				·		
				-				
	oncentration, D=De				d Grains.		Pore Lining, M=Matr	
	Indicators: (Appli	cable to all t		•		<del></del>	Problematic Hydric	Soils":
Histoso	· ·				8) (LRR S, T, U		(A9) (LRR O)	İ
<b>≔</b>	pipedon (A2)		<del></del>	ırface (S9) (LR			(A10) (LRR S)	
	listic (A3)			y Mineral (F1)	(LRR O)	1 3	/ertic (F18) (outside	· '
	en Sulfide (A4)			ed Matrix (F2)			Floodplain Soils (F19	
-	d Layers (A5)		Depleted Ma	• •			s Bright Loamy Soils	(F20)
_	Bodies (A6) (LRR		processor and the second	Surface (F6)		(MLRA 1		
	ucky Mineral (A7) (L			rk Surface (F7)	Į.		nt Material (TF2)	Į.
	resence (A8) (LRR		Redox Depr				ow Dark Surface (TF	12)
=	uck (A9) (LRR P, T)		Marl (F10) (I			Other (Exp	olain in Remarks)	t .
	ed Below Dark Surfa	ce (A11)	_	hric (F11) (MLI		3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,		
=	Park Surface (A12)	/341 DA 4504			12) (LRR O, P,		rs of hydrophytic veg	
_	Prairie Redox (A16)		<del></del>	ace (F13) (LRF			d hydrology must be	
P	Mucky Mineral (S1)	(LKK 0, 5)		(F17) (MLRA	•		disturbed or problem	atic.
=	Gleyed Matrix (S4) Redox (S5)				RA 150A, 150B) (E10) (MLDA 44			
	d Matrix (S6)			-	(F19) (MLRA 14	19A) RA 149A, 153C, 15	:25)	
=	urface (S7) (LRR P,	S T III	III Allottialous	Drigin Loanly C	10115 (1 20) (NEIX	A 148A, 1880, 18	(טפּי	
	Layer (if observed						X 114 111 111 1111 1111	
Type: _		7.						
	nches):		<del></del>			Hydric Soil Pro	esent? Yes	No <u></u>
Remarks:								
0	-101 1- 1	· ·	ğ # <del>1</del>					e #
40	ari Deli	ひい と	) . Cool	d not	CALAGEN	- Dast	8" to	PYAIVA
	( con 1 0	115	,	0 1101	Chargot	F-00,	0 10	Control of the Contro
	(1000 FI	(1)			0			



Upland data point wnrp017\_u facing southeast.



Upland data point wnrp017\_u facing northeast.

Project/Site: ACP	City/Co	unty: Northar	moton sami	oling Date: <u>6/9/15</u>
Applicant/Owner: Dominion			State: NC Samp	oling Point: WArp 017e.u
nvestigator(s): ESI (Roper, Turn)	OU II) Section	n, Township, Range: <u>\</u>	10ne	
andform (hillslope, terrace, etc.): Terrace	Local re	elief (concave, convex, i	none): <u>flat</u>	Slope (%): <u>0 - 3 '</u> /
Subregion (LRR or MLRA): LPP P	Lat: 36.539	14 Long: <u> </u>	77.34778	Datum: <u>ს</u> წამე
Soll Map Unit Name: <u>Altavista fine san</u>			NWI classification:	PEM
Are climatic / hydrologic conditions on the site typical for t	this time of year? Ye	es No (	(If no, explain in Remark	(s.)
Are Vegetation, Soil, or Hydrology	_ significantly disturb	ed? Are "Normal	Circumstances" presen	il? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally problemat		explain any answers in F	
SUMMARY OF FINDINGS - Attach site ma	p showing sam	pling point locatio	ons. transects. imi	portant features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled Area	A Control of the Cont	>
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No
Remarks:				
powerline easement	t, con	servatio	on area	1
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)		Surface Soil Crac	····
Surface Water (A1)	atic Fauna (B13)			ed Concave Surface (B8)
	Deposits (B15) (LRF	₹ U)	Drainage Patterns	s (B10)
	rogen Sulfide Odor (0		Moss Trim Lines	
	dized Rhizospheres a sence of Reduced Iro	long Living Roots (C3)	Dry-Season Wate	ì
] r=	ent Iron Reduction in			on Aerial Imagery (C9)
	Muck Surface (C7)		Geomorphic Posi	• • • •
	er (Explain in Remarl	ks)	Shallow Aquitard	' '
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Tes	
Water-Stained Leaves (B9)				(D8) (LRR T, U)
Surface Water Present? Yes No	Depth (inches):	2,"		
Water Table Present? Yes V No	Depth (inches): 4	rface		ر
Saturation Present? Yes No	Depth (inches): 10	~	Hydrology Present?	Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring w	well agrial photos pr	evicus inspections) if a	railahla:	
Sesone recorded bata (stream gadge, monitoring w	veli, aeriai pilotoa, pi	evious inspections), it as	vanabic.	
Remarks:				without ,

VEGETATION (	Four Strata	- Use	scientific	names	of	plants

- 10217111011 (Four Othera) Coc objettitio Har	<u> </u>	Sampling Point:
Tree Stratum (Plot size: 30ft x 30ff	Absolute Dominant Indi <u>% Cover Species?</u> St	
1 1/10/10		indumber of Dominant Species
2		
3.		Species Across All Strata: (B)
4.		
5		Percent of Dominant Species
6		
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8	Total Cover	
	= Total Cover	OBL species x1 =
50% of total cover	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 + x30 +)		FAC species x3 =
1. none		FACU species x 4 =
2.		UPL species x 5 =
3		
4		
5.		
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	= Total Cover	} ======
50% of total cover:		Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30ft x 30ft)	20 % of total cover	
1. Juneus effusus	40 Y O	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. JONEUR ETTOSUS		
2. Arundinavia gigantea	10 N F	Definitions of Four Vegetation Strata:
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		
6	. ?	
7		
8		
9		
10		Woody vine – All woody vines greater than 3.28 ft in
11	·	height.
12		
	70 = Total Cover	
50% of total cover: _35		\ 6 <sub>0</sub>
Woody Vine Stratum (Plot size: 30ff x30ff)	20 70 OF TOTAL GOVER,	<del>`                                    </del>
•		
1. none		
2		
3		
4		
5		The description of
	= Total Cover	Hydrophytic Vegetation
MONE - FILLS		Procent2 Van Van
50% of total cover:		100
Remarks: (If observed, list morphological adaptations bel	ow).	

Profile Desc	ription: (Describe t	o the depth	neede	d to docur	nent the i	ndicator	or confirm	the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)		Colo-		x Feature:		1 - 2	T	
o-8	107K4/2	100	<u> </u>	(moist)	· <u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		<del></del>	2000 S Z 1	0 -1					
8-50	10 16 11	90 ]	<u>UY I</u>	250	<u> 10 </u>		<u> </u>	<u>CL</u>	
			,						
					-			-	
<u> </u>									
¹Type: C=C	oncentration, D=Depl	etion, RM=R	educe	d Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applica								for Problematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		∏ P	olyvalue Be	elow Surfa	ce (S8) (I	_RR S, T, U	J) 🔲 1 cm M	iuck (A9) (LRR O)
	pipedon (A2)		П Т	hin Dark Su	ırface (S9	) (LRR S,	T, U)		luck (A10) (LRR S)
	istic (A3)			oamy Muck			₹ 0)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
-	en Sulfide (A4)			oamy Gley		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
==	d Layers (A5)			epleted Ma					lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P			Redox Dark					RA 153B)
	ucky Mineral (A7) (LF resence (A8) (LRR U			Depleted Da					arent Material (TF2)
	uck (A9) (LRR P, T)	,	-	Redox Depr Aarl (F10) (I	-	· 0)			hallow Dark Surface (TF12) (Explain in Remarks)
	d Below Dark Surface	e (A11)		Depleted Oc		(MIRA 1	151)	Other (	(Explain in Remarks)
	ark Surface (A12)	,	_				(LRR O, P,	T) <sup>3</sup> Indic	eators of hydrophytic vegetation and
	rairie Redox (A16) (N	/ILRA 150A)		Jmbric Surf				•	land hydrology must be present,
	Mucky Mineral (S1) (L			Delta Ochrid					ess disturbed or problematic.
	Gleyed Matrix (S4)		☐ F	Reduced Ve	ertic (F18)	(MLRA 1	50A, 150B)	)	·
	Redox (S5)						) (MLRA 14		
	d Matrix (S6)		11/	Anomalous	Bright Loa	my Soils	(F20) (MLR	RA 149A, 153C	, 153D)
	urface (S7) (LRR P, S								
Ì	Layer (if observed):								
Type:									
Depth (ii	nches):							Hydric Soil	Present? Yes No
Remarks:									
1									



TEORITATION (1 our otraca) — Ose scientific fial	illes of bi	anto.		Sampling Point:
3-11 2011	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30++ x30++)	% Cover	Species?	Status	Number of Deminant Cassins
1. Quercus michauxii	( 5)	Ä	FACW	That Are OBL, FACW, or FAC:(A)
2. Liquidambar styraciflua	15	<u> </u>	FAC	(4)
3. Ager rubrum	1.6			Total Number of Dominant
			FAC	Species Across All Strata: (B)
4. Between ara	5	$\overline{N}$	FACW	
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100 (A/B)
				Prevalence Index worksheet:
7				I
8				Total % Cover of: Multiply by:
	45	= Total Cov	/er	OBL species x1=
50% of total cover: 22	15 200/ A	finial anima	. a	FACW species x 2 =
30% of total cover	20% U	i total cover	· — •	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 ft x 30ft)			مد دست	
1. I'EX OPUCA	10	<u> </u>	FIAC	FACU species x 4 =
2. Liquidimber styraciflua	5	Y	FAC	UPL species x 5 =
3. Acer rubrum	- C.	<del>-</del>	FAC	Column Totals: (A) (B)
				(5)
4				Prevalence Index = B/A =
5				
6.				Hydrophytic Vegetation Indicators:
6				1-Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	20	= Total Co	ver	
50% of total cover:				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	<u>/</u> 20% 0	i iotai covei	:	
Herb Stratum (Plot size: 30++ x 30++)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Arundinaria algantea	06	14	FACW	be present, unless disturbed or problematic.
1. Arundinaria gigantea 2.		*		Definitions of Family 1997
				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			· ———	
6				Sapling/Shrub - Woody plants, excluding vines, less
7			·	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Horb All barbassaus (non woods) wheats researched
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				or older and moody plants less that older tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	30	_ = Total Co	wer	
mant et				
	<u>∍</u> 20% (	of total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 30 Ft x 30 Ft)				
1. Smilax rotundifolia	O	V	FAC	
2. Vitis rotundifolia	C.	·	- <del>1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </del>	
			<u> </u>	
3				
4,				
1 _				
5.			-	Hydrophytic
_		_ = Total C		Vegetation
50% of total cover:	5 20%	of total cove	er: 3	Present? Yes No No
Remarks: (If observed, list morphological adaptations be				
The state of the s	iowj.			
Į.				

	ription: (Describe	to the depth				or confirm	the absence of ind	icators.)
Depth (inches)	Matrix Color (moist)			ox Feature		Loc <sup>2</sup>	Tarifican	Danie II.
(inches)	10 YR 3/2		Color (moist)	%	Type <sup>1</sup>		Texture	Remarks
		100						
4-20	10 18 21	<u> </u>	10 YR 5/6	20	<u> </u>	$\sim$	SCL	
}								
			~-			***		
ļ								
¹Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, N	/IS=Masked	d Sand Gr	ains.	<sup>2</sup> Location: PL=F	ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless oth	erwise not	ed.)			roblematic Hydric Soils³:
Histosol			Polyvalue E	Below Surfa	ice (S8) (L	.RR S, T, U		
	pipedon (A2)		Thin Dark S					A10) (LRR S)
	istic (A3)		Loamy Muc			R O)		rtic (F18) (outside MLRA 150A,B)
1 == -	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted M		(F2)			oodplain Soils (F19) (LRR P, S, T)
1 7	a Layers (A5) Bodies (A6) (LRR P	T 111	Redox Dari		E6)		Anomalous I	Bright Loamy Soils (F20)
	ucky Mineral (A7) (LI		Depleted D					Material (TF2)
	resence (A8) (LRR L		Redox Dep					w Dark Surface (TF12)
	uck (A9) (LRR P, T)	•	Marl (F10)	-	•			ain in Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted C	chric (F11)	(MLRA 1	51)		•
	ark Surface (A12)		lron-Manga					of hydrophytic vegetation and
	Prairie Redox (A16) (i		F					hydrology must be present,
I ==	Mucky Mineral (S1) (	LRR O, S)	Delta Ochr		-			sturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)					50A, 150B) ) (MLRA 14		
	d Matrix (S6)			-	-	- •	RA 149A, 153C, 153	ח
	urface (S7) (LRR P,	S, T, U)		, 5.1.g. 1. 201	,	(, 25) (2)		2,
Restrictive	Layer (if observed)							
Type:								
Depth (ii	nches):	······					Hydric Soil Pres	sent? Yes No
Remarks:							<u> </u>	1 10 0 months (100 m)
1								
ļ								
İ								
İ								



Wetland data point wnrp017f\_w facing southwest.



Wetland data point wnrp017f\_w facing northwest.

Project/Site: ACP	City/County: Nov tham pton Sampling Date: 6/9/15
Applicant/Owner: Dominion	State: NC Sampling Point: WnrpDI7-u
Investigator(s): EST (Roper, Turnbull)	Section Township Penns 1/2 DV/
	Local relief (concave, convex, none): flat Slope (%): 0-3//
Subregion (LRR or MLRA): L P P Lat: 36.	
Subregion (LRR or MLRA): Lat: 300	.53910 Long: -77,34758 Datum: W.6.584
· ·	asionally flooded NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of	•
Are Vegetation, Soil, or Hydrology significant	atly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	- Within a wetgand? Tes
Remarks:	
Road through conservation	n area - on fill material (sand over grave)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	
Surface Water (A1)	
High Water Table (A2) Saturation (A3)  High Water Table (A2) Hydrogen Sulfid	
	de Odor (C1)
Sediment Deposits (B2)  Presence of Rec	
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	face (C7) Geomorphic Position (D2)
Iron Deposits (B5) Under (Explain i	
inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (incl	thes); NA
Water Table Present? Yes No Depth (incl	
Saturation Present? Yes No Depth (incl	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pi	ohotos, previous inspections), if available:
Remarks:	

. 0:	Absolute	Dominant I	ndicator	Dominance Test workshe	Sampling Point: wr	
ee Stratum (Plot size: 15ft x 40ft)		Species?				
non()				Number of Dominant Special That Are OBL, FACW, or FA		(A)
				Total Number of Dominant Species Across All Strata:	2	(B)
				•		, (U)
				Percent of Dominant Specie		
				That Are OBL, FACW, or F	AC:	(A/B)
				Prevalence Index workship	eet:	
				Total % Cover of:	Multiply by:	
		= Total Cove	1	OBL species	_ x1=	
50% of total cover:				FACW species		
ppling/Shrub Stratum (Plot size: 18++ × 40++)	2076 01	i lotai covei.		FAC species		
10000				FACU species		
none				UPL species		
				Column Totals:		
						— ( <del>,</del>
				Prevalence Index = E	B/A =	
				Hydrophytic Vegetation I	ndicators:	
				Rapid Test for Hydi	ophytic Vegetation	
				2 - Dominance Test is		
				3 - Prevalence Index is	s ≤3.0¹	
		= Total Cove	er e	Problematic Hydrophy		ain)
50% of total cover:	20% o	f total cover:	<del></del>			•
erb Stratum (Plot size: 15 ft x 40ft)	10	٧	ERCL	Indicators of hydric soil an be present, unless disturbe	d wetland hydrology	must
Arundinaria gigantea	7 17		<u> </u>	Definition of 5		
				Definitions of Four Veget	ation Strata:	
				Tree - Woody plants, excl	uding vines, 3 in. (7.	6 cm) o
				more in diameter at breast height.	height (DBH), regar	dless o
				neigni.		
•				Sapling/Shrub - Woody p	lants, excluding vine	es, less
				than 3 in. DBH and greate	r than 3.28 ft (1 m) t	all,
				Herb - All herbaceous (no	n-woody) plants, red	gardless
		·		of size, and woody plants		
0.	*			Woody vine - All woody \	sings areater than 3	28 ft in
1				height.	anca greater triarro.	20 11 111
2						
	_ 10	_ = Total Cov	er			
50% of total cover:	<u>5                                    </u>	of total cover:				
Voody Vine Stratum (Plot size: 15+ナメイクナナ)						
. Smilax rotundifolia	5	V	FAC			
		<del></del>				
-						
	<u> </u>			Hydrophytic	1	
••		_ = Total Co	4	Vegetation Yes	₩ No	
50% of total cover:	<u>- 😂</u> 20%	of total cover	·	Flesent: 1es	NO	<b>-</b>
Remarks: (If observed, list morphological adaptations	below).					
8						
roadside veg.						

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the indic	ator or co	nfirm tl	ne absence of in	dicators.)	
Depth	Matrix			Features		<del>- 6</del>	_		
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>T</u>	<u>pe¹ Lo</u>	)C <sup>2</sup>	Texture	Remar	ks
<u>0-5</u>	101127/2	100			<del></del>				
			<del></del>						
									<del></del>
¹Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, MS	S=Masked Sa	nd Grains.		<sup>2</sup> Location: PL=	Pore Lining, M=1	Matrix.
	Indicators: (Applic							Problematic Hyd	
∏ Histosol	(A1)		Polyvalue Be	low Surface (	S8) (LRR	S, T, U)		(A9) (LRR O)	
=	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
Black H	istic (A3)		Loamy Mucky			•			ide MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)					F19) (LRR P, S, T)
3	d Layers (A5)		Depleted Mat	, ,			Anomalous	Bright Loamy S	oils (F20)
_	Bodies (A6) (LRR P		Redox Dark				(MLRA 1	•	
	ucky Mineral (A7) (LI		Depleted Dar		")			t Material (TF2)	
$\overline{}$	resence (A8) (LRR U	J}	Redox Depre	, ,				ow Dark Surface	(TF12)
	uck (A9) (LRR P, T) d Below Dark Surfac	n (A11)	Marl (F10) (L	.RR U) hric (F11) (MI	DA 454\		Uther (Exp	lain in Remarks)	ĺ
=	ark Surface (A12)	E (ATT)	·	ese Masses (	•	2 O P T	3 Indicator	s of hydrophytic	vegetation and
=	Prairie Redox (A16) (I	MLRA 150A)	<u> </u>	ice (F13) (LR		. 0, , , ,	•	hydrology must	•
_	Mucky Mineral (S1) (	-	<del></del>	(F17) (MLRA				disturbed or prob	' '
	Gleyed Matrix (S4)	. ,		rtic (F18) (ML	•	150B)	_,		
_	Redox (S5)		_	odplain Soils	-	-	A)		
	d Matrix (S6)			-			149A, 153C, 15	3D)	
Dark S	urface (S7) (LRR P,	S, T, U)							
Restrictive	Layer (if observed)	):							
Type:			<del></del>						
Depth (ii	nches):		<del></del>			•	Hydric Soil Pre	esent? Yes	No
Remarks:									
		Jenny.	ž s.						
950	vel belo	1W 8	. Coule	l no	~ ^	000	- Dact	Q" 1	o evaluate
	( 0:	///	, 0001	ייטון ע	- WU	yer	Pasi	0 1	) C40410041
	(1000 FI	(()			,	•			
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}									
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1									
<u> </u>									



Upland data point wnrp017\_u facing southeast.



Upland data point wnrp017\_u facing northeast.

Project/Site: ACP C	ity/County: Northampton Sampling Date: 1019115
Applicant/Owner: Dominion	State: NC Sampling Point: War 2016 Lw
Investigator(s): ESI (Roper, Turnbull)	ection, Township, Range: NONE
	ocal relief (concave, convex, none):
	3910 Long: -77, 34744 Datum: W6584
Soil Map Unit Name: Rounoke silt loam, occas	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil or Hydrology significantly d	
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
Conservation area	
LIVEROLL COV	
HYDROLOGY	
Wetland Hydrology Indicators: <u>Primary-Indicators (minimum of one is required; check all that apply)</u>	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	
High Water Table (A2)  Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface ☐ Other (Explain in R	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	211
Surface Water Present? Yes No Depth (inches)	):
Water Table Present? Yes No Depth (inches	: Jurtace
Saturation Present? Yes No Depth (inches (includes capillary fringe)	): Swithing   Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

VESETATION (Four Strata) - Use scientific ha	ines or pr	ants.		Sampling Point:'
211.30[1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30f+ x30ff	% Cover	Species?		Number of Dominant Species
1. Liquidambar styraciflua	<u>20</u>	$\overline{\lambda}$	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Overcus phellus	5	N	FACW	
3. Pinus takéa	10	$\overline{\gamma}$	FAC	Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				(*****
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8.				OBL species x 1 =
) to		= Total Cov		
50% of total cover: 17	ر <u>د ک</u> 20% م	f total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ff)				FAC species x 3 =
	<u> 10</u>	1	FAC	FACU species x 4 =
2. Liquidambar styraciflua	C	Ÿ	FAC	UPL species x 5 =
* 1	- Company			Column Totals: (A) (B)
3				Coldina Totals (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
6	<del> </del>			Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8			-	3 - Prevalence Index is ≤3.01
	15	= Total Co	ver	l —
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30ff x 36ff)	20 /6 0	I fotal cove		
Hero Stratum (Plot size: 3077 x 3077)	and were	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	# 10 at 1	Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigantea		<u> </u>	- FHOW	be present, unless disturbed or problematic.
2	_			Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5				height.
6		_		Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11,				height.
12.				
	775	= Total C		
*		_	_	
50% of total cover:	<u>U</u> 20%	of total cove	ег:	
Woody Vine Stratum (Plot size: 30ft x 30ft)				
1. Smilax rotundifolia	٣	V	FAC	
		*	9 0 0 0000	"
2				
3.		_		.
4				
				•
5				-   Hydrophytic
	<u>C'.</u>	_ = Total C	over	Vegetation
50% of total cover: 2	5 20%	of total cov	er: 🐧	Present? Yes No No
Remarks: (if observed, list morphological adaptations b				
tromains, (ii oosarvad, iist morphological adaptations b	elow).			
1				

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of	f indicators.)	
Depth	Matrix			ox Features	3				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u>Rema</u>	rks
0-4	101/2 3/2	100					<u> </u>		
4- 2(	104R5/1	80 1	10YR 5/6	20	$\mathcal{C}$	M	<u> </u>		
			<del></del>					V	
		<del></del>				<del></del>	<del></del>		
l		<del></del>				<u> </u>			
***************************************					•			<del></del> -	
	Concentration, D=Dep					ains.		L=Pore Lining, M=	
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	erwise note	ed.)		Indicators fo	or Problematic Hy	dric Soils³:
Histoso	` '		Polyvalue B					ick (A9) (LRR 0)	
	pipedon (A2)		Thin Dark S					ick (A10) (LRR S)	1
; <b>=</b>	listic (A3)		Loamy Muc			R O)			side MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)				(F19) (LRR P, S, T)
	ed Layers (A5)		Depleted M					ous Bright Loamy S	oils (F20)
	c Bodies (A6) (LRR P		Redox Dark					A 153B)	
	lucky Mineral (A7) (LI		Depleted D					rent Material (TF2)	(7540)
	Presence (A8) (LRR L luck (A9) (LRR P, T)	וי	Redox Dep		٥)			allow Dark Surface	
	ed Below Dark Surfac	۵ (۵11)	Mari (F10)		(KALDA -	164)	Uther (E	Explain in Remarks	)
	Park Surface (A12)	:e (A11)				(LRR O, P,	T) <sup>3</sup> Indian	tors of hydrophytic	vocatation and
	Prairie Redox (A16) (i	MI RA 150A)	Umbric Sur					and hydrology must	-
	Mucky Mineral (S1) (		Delta Ochri		•			ss disturbed or prof	· ·
	Gleyed Matrix (S4)	, 0, 0,	<del></del>		-	, 50A, 150B)		os distalbed of prof	signiatio.
	Redox (S5)				-	) (MLRA 14			
77777	ed Matrix (S6)						A 149A, 153C,	153D)	
	urface (S7) (LRR P,	S, T, U)		J	•	. , ,		,	
	Layer (if observed)								
Type: _									
	inches):		<del>_</del>				Hudria Call	Present? Yes_	No.
Remarks:							Tryunc 3011	rieseill: les_	<u>* 140</u>
Remarks.									
1									
ļ									
ĺ									



Wetland data point wnrp016f\_w facing southeast.



Wetland data point wnrp016f\_w facing northeast.

Project/Site: ACP	City/County: Northampton Sampling Date: 619115
Applicant/Owner: Dominion	State: NC Sampling Point: Why police-w
Investigator(s): ESI (Roper Turnbull)	Section, Township, Range: VOVC
, , , , , , , , , , , , , , , , , , ,	Local relief (concave, convex, none): Plat Slope (%): 0-3/6
Subregion (LRR or MLRA): LRK P Lat: 36.	53923 Long: -77, 34766 Datum: W1-584
Soil Map Unit Name: Roundke Siltloam, DLL	asionally floodedwww classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	Z1
Are Vegetation, Soil, or Hydrology significanti	·
Are Vegetation, Soil, or Hydrology naturally p	·
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No No	- I is the Sampled Area [
Wetland Hydrology Present? Yes No	within a wetland? Tes No No
Remarks:	
powerline easement, cor	servation area
	1301 0001 1011 011 001
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2)  Mart Deposits (B	
Saturation (A3) Hydrogen Sulfide	
☐ Water Marks (B1) ☐ Oxidized Rhizos	oheres along Living Roots (C3) Dpy-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfa ☐ Iron Deposits (B5) ☐ Other (Explain in	
Injundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	es): 3"
Water Table Present? Yes No Depth (inch	
Saturation Present? Yes No Depth (inch	es): <u>surface</u>   Wetland Hydrology Present? Yes <u> </u>
(includes capitlary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos previous inspections) if available:
gaoga, mainaing usii, ganai p	otot, p.o. toto in operation, in a validation
Remarks:	

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

Tree Stratum (Plot size: 30+1 x 30+1) % Cover S 1. MONE	ominant Indicator   Dominance Test worksheet:
1. none	
3	That Are OBL, FACW, or FAC: (A)
2	
3.	
4	
5	That Are OBL, FACW, or FAC: (A/B)
6	
7	I Drovolomoo Indoversandado o ata
8	Total % Cover of: Multiply by:
	OBL species x 1 =
	5.000
50% of total cover: 20% of tot	
Sapling/Shrub Stratum (Plot size: 30++ x 30++	FAC species x 3 =
1. <u>none</u>	FACU species x 4 =
2	1 1101
3	
4	Trevalence mack - B/A -
5	Hydrophytic Vegetation Indicators:
6	
7.	
8	———
= 1	Total Cover Problematic Hydrophytic Vegetation (Explain)
g 50% of total cover: 20% of to	
Herb Stratum (Plot size: 30f+ x30f+)	1 Indicators of budgin pall and wallout budget and and
1. Juneus effusus 40	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Saucharum giganteum 15	
3. Carexsp. U	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	
5	
6	
7	
8	Herb – All herbaceous (non-woody) plants, regardless
9	of size, and woody plants less than 3.28 ft tall.
10	<u> </u>
	Troody vine - All woody vines greater than also it in
11.	height.
12	
<u> </u>	Total Cover
50% of total cover: 32,520% of to	otal cover: 13
Woody Vine Stratum (Plot size: 30ff x30ft)	
1. hone	
2	
3	1
1.4.	
4	Hydrophytic
5	
5	Total Cover Vegetation
5	Drocont2 Von 1 / No
5	Drocont? Von 1 / No
5	Drocont? Von 1 / No
5	Drocont? Von 1 / No
5	Drocont? Von 1 / No
5	Drocont? Von 1 / No

Profile Desc	ription: (Describe	to the dept	n needed to docum	nent the i	ndicator	or confirm	the absence of i	indicators.)
Depth	Matrix		Redox	x Feature	s			······································
(inches)	Color (moist)	<u>%</u> .	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10 1 10 11	. <u>100</u> -		·			<u> </u>	
<u>6-20</u>	10162	95	104246	_ <u>5</u> _	_ <u>C_</u>	PL	<u> 50L _</u>	
	-							
					· · · · · · · · · · · · · · · · · · ·			
		-						
					. ——			
·								
	oncentration, D=Dep					ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
l	ndicators: (Applic	anie to aii i				DD 0 7 1		Problematic Hydric Soils <sup>3</sup> :
Histosol	(AT) Dipedon (A2)		Polyvalue Be Thin Dark Su					k (A9) (LRR O) k (A10) (LRR S)
Black Hi			Loamy Muck			•		Vertic (F18) (outside MLRA 150A,B)
: ==	n Sulfide (A4)		Loamy Gleye			,		Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted Ma	trix (F3)				us Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	-			(MLRA	
	icky Mineral (A7) (Li		Depleted Da					nt Material (TF2)
	esence (A8) (LRR l ıck (A9) (LRR P, T)	J)	Redox Depre		-8)			llow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Oc		/MIRA1	51)	Uner (Ex	plain in Remarks)
. —	ark Surface (A12)	,	Iron-Mangan		•	•	, T) <sup>3</sup> Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (							nd hydrology must be present,
	/lucky Mineral (S1) (	LRR O, S)	Delta Ochric					s disturbed or problematic.
	Sleyed Matrix (S4)		Reduced Ve					
	Redox (S5) I Matrix (S6)		Piedmont Fi	-	-		•	rop)
	irface (S7) (LRR P,	S T III	Anomatous i	Dilgill Loa	arity Solls	(F20) (IVIL	RA 149A, 153C, 1	530)
	Layer (if observed)							
Type:		•						
	ches):						Hydric Soil P	resent? Yes / No
Remarks:								
1								
Ì								
1								



Wetland data point wnrp016e\_w facing east.

Project/Site: ACP	City/County: Northampton Sampling Date: 6/9/15
Applicant/Owner: Pominion	State: NC Sampling Point: Which UIL-W
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: None
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): 10-3/
Subregion (LRR or MLRA): LR P Lat: 36.	53917 Long: -77, 34763 Datum: W6584
Soil Map Unit Name: Loanoke silt bam, occ	Casionally flooded Wiclassification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
One I House to Come	
Road through consi	ervation area -
on fill material (sand overly)	ng gravel)
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 (B	
High Water Table (A2)  High Water Table (A2)  Marl Deposits (B1	
Saturation (A3) Hydrogen Sutfide Water Marks (B1) Oxidized Rhizospi	Odor (C1)
Sediment Deposits (B2)  Sediment Deposits (B2)  Presence of Redu	· · · · · · · · · · · · · · · · · · ·
	action in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	e (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
L Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	(a). NA
Water Table Present? Yes No Depth (Inche	(s): >20
Saturation Present? Yes No Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

5. \_\_\_\_\_

1. Arundinaria gigantea 10 y FACW

6. \_\_\_\_\_

1. Smilax rotundifolia 5 Y FAC

Tree Stratum (Plot size: 15ff x 40ff )

Sapling/Shrub Stratum (Plot size: 15f) x40f+

1. none

Herb Stratum (Plot size: 15ft x 40ft)

1. none

Absolute Dominant Indicator

O = Total Cover

O = Total Cover

\_\_\_\_ = Total Cover

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

50% of total cover: \_\_\_\_ 20% of total cover: \_\_\_

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_

\*\* Cover Species? Status

Sampl	ing Point: Wn	10016_L
Dominance Test worksheet:		
Number of Dominant Species That Are OBL, FACW, or FAC:	_ 2	(A)
Total Number of Dominant Species Across All Strata:		(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	_100	(A/B)
Prevalence Index worksheet:	<del></del>	
Total % Cover of:	Multiply by:	
OBL species x	1=	
FACW species x	2 =	_
FAC species x	3 =	_
FACU species x	4 =	_
UPL species x	5 =	_
Column Totals: (A	.)	(B)
Decorded to the Color		
Prevalence Index = B/A =		
Hydrophytic Vegetation Indica  1 - Rapid Test for Hydrophy  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0  Problematic Hydrophytic Ve	tic Vegetation 6	ain)
<sup>1</sup> Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation	problematic. Strata:	
Tree – Woody plants, excluding more in diameter at breast heig height.		
Sapling/Shrub – Woody plants than 3 in. DBH and greater than	, excluding vine 1 3.28 ft (1 m) ta	s, less II.
Herb – All herbaceous (non-wo of size, and woody plants less t		ardless
Woody vine – All woody vines height.	greater than 3.2	28 ft in
Hydrophytic Vegetation Present? Yes	No	

5	5 = Total Cover
	50% of total cover: 2 5 20% of total cover:
Remarks: (If observed, list me	orphological adaptations below).
roadside	veg.

3. \_\_\_\_

Woody Vine Stratum (Plot size: 15ft × 40ft)

OIL						Sampling Point:
Profile Description: (De	scribe to the dept	h needed to docu	ment the indicator	or confirm t	he absence of it	ndicators.)
Depth (inches) Color (m ← Color		Redo Color (moist)	ox Features  Type¹	Loc <sup>2</sup>	Texture 5	Remarks
ype: C=Concentration ydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A	(Applicable to all I	RRs, unless othe Polyvalue Bo Thin Dark So Loamy Muck		LRR S, T, U) , T, U)	Indicators for 1 cm Muck 2 cm Muck Reduced \	=Pore Lining, M=Matrix. Problematic Hydric Soils³: (A9) (LRR O) (A10) (LRR S) /ertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5 Organic Bodies (A6) 5 cm Mucky Mineral Muck Presence (A8) 1 cm Muck (A9) (LR Depleted Below Dar Thick Dark Surface (Coast Prairie Redox Sandy Mucky Mineral Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (I	(LRR P, T, U) (A7) (LRR P, T, U) (LRR U) R P, T) k Surface (A11) (A12) (A16) (MLRA 150A al (S1) (LRR O, S) k (S4) LRR P, S, T, U)	Depleted Da Redox Depr Redox Depr Marl (F10) ( Depleted Oc iron-Mangai Umbric Surf Delta Ochric Reduced Ve	Surface (F6) ark Surface (F7) essions (F8)	(LRR O, P, <sup>-</sup> T, U) )   50A, 150B)   (MLRA 149	(MLRA 1 Red Parer Very Shall Other (Exp  T) 3 Indicato wetland unless	nt Material (TF2) ow Dark Surface (TF12) plain in Remarks) rs of hydrophylic vegetation and d hydrology must be present, disturbed or problematic.
Restrictive Layer (if ob Type:	served);			s 187 934 - U	Hydric Soil Pro	esent? Yes No
Remarks:					nyunc son Pro	esent? Yes No V
gravel	below to eva	1	could (road		auge	r past



Upland data point wnrp016\_u facing southwest.



Upland data point wnrp016\_u facing northwest.

Project/Site: ACP C	ity/County: Northampton Sampling Date: 1019115
Applicant/Owner: Dominion	State: NC Sampling Point: War 2016 Lw
Investigator(s): ESI (Roper, Turnbull)	ection, Township, Range: NONE
	ocal relief (concave, convex, none):
	3910 Long: -77, 34744 Datum: W6584
Soil Map Unit Name: Rounoke silt loam, occas	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil or Hydrology significantly d	
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
Conservation area	
LIVEROLL COV	
HYDROLOGY	
Wetland Hydrology Indicators: <u>Primary-Indicators (minimum of one is required; check all that apply)</u>	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	
High Water Table (A2)  Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface ☐ Other (Explain in R	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	211
Surface Water Present? Yes No Depth (inches)	):
Water Table Present? Yes No Depth (inches	: Jurtace
Saturation Present? Yes No Depth (inches (includes capillary fringe)	): Swithing   Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

VESCIATION (Four Strata) - Ose scientific na	anies or pi	ants.		Sampling Point:'
- 11 30 CL		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30++ x30++	% Cover	Species?		Number of Dominant Species
1. Liquidambar styraciflua	<u> 20</u>	$\overline{\lambda}$	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Overeus phellos	S	N	FACW	
3. Pinus takda	10	$\overline{\gamma}$	FAC	Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5		····		That Are OBL, FACW, or FAC: 100 (A/B)
6				(********************************
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8.				OBL species x 1 =
ì tra		= Total Cov		
50% of total cover: 17	<u>🖎</u> 20% of	f total cover	:/_	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 ft x 30 ft				FAC species x 3 =
	<u> </u>	V	FAC	FACU species x 4 =
2. Liquidambar styraciflua	5	Ÿ	FAC	UPL species x 5 =
	- Company		III	Column Totals: (A) (B)
3				Coldina Totals (A) (B)
4.				Prevalence Index = B/A =
5				
6	_			Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8			-	3 - Prevalence Index is ≤3.01
	15	= Total Co	ver	l —
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30ff x 38ff)	20 /8 0	I fotal cove		
Hero Stratum (Plot size: DOTY X 301T)	pick Wenger		# 10 at 1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigantea	_ L. Q	. <del>- У</del>	FHOW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6		_	-	Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	770	= Total C		
<b>1</b>		_	_	
50% of total cover:	<u>U</u> 20% (	of total cove	ег:	
Woody Vine Stratum (Plot size: 30ft x 30ft)				
1. Smilax rotundifolia	٣	٧	FAC	
		*	- V & Vincol	
2				
3.		_		.
4				
5				• 1
J	<del></del>			Hydrophytic
		_ = Total C	over	Vegetation
50% of total cover: 2	<u>•5</u> 20%	of total cov	er:	Present? Yes No No
Remarks: (If observed, list morphological adaptations b				
to operved, its morbinological anabiations t	σιυW).			
!				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			ox Features	š				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	101/2 3/2	100					SL		
4-20	101R5/1	80 1	10YR 5/6	20	C	M	5 <u>C</u> L		_
	<del></del>		V 1 1-2 / 1/2						
l		·							
					-				
									\
¹Type: C=C	Concentration, D=Dep	letion, RM=Re	educed Matrix, M	IS=Masked	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless other	erwise note	ed.)			or Problematic Hydric Soils³:	$\neg$
. Histoso	i (A1)		Polyvalue B	elow Surfa	ce (S8) (I	RR S, T, U	) 🔲 1 cm Mu	ick (A9) (LRR 0)	i
Histic E	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S	T, U)		ick (A10) (LRR S)	
Black I	listic (A3)		Loamy Muc					d Vertic (F18) (outside MLRA 150	A,B)
	en Sulfide (A4)		Loamy Gley	red Matrix (	F2)		L Piedmor	nt Floodplain Soils (F19) (LRR P, S	3, T)
	ed Layers (A5)		Depleted M					ous Bright Loamy Soils (F20)	
	c Bodies (A6) (LRR P		Redox Dark				(MLR/	A 153B)	Į
	iucky Mineral (A7) (LI		Depleted D					ent Material (TF2)	
	Presence (A8) (LRR L	J)	Redox Dep		8)			allow Dark Surface (TF12)	
	luck (A9) (LRR P, T)		Mari (F10)				Other (E	explain in Remarks)	
	ed Below Dark Surfac	ce (A11)	Depleted O						Ì
	Park Surface (A12)		Iron-Manga			(LRR O, P,		tors of hydrophytic vegetation and	. [
	Prairie Redox (A16) (				•			and hydrology must be present,	
	Mucky Mineral (S1) (	LRR O, S)	Delta Ochri		-			ss disturbed or problematic.	
	Gleyed Matrix (S4)				-	50A, 150B)			
77777	Redox (S5)					) (MLRA 14		4 5003	
	ed Matrix (S6) jurface (S7) (LRR P, S	C T 10	Anomalous	Bright Loa	my Solis	(FZU) (WILK	A 149A, 153C,	1530)	
	Layer (if observed)								
1	Layer (if observed)	):							l
Type: _			<del></del>						
Depth (i	nches):						Hydric Soil	Present? Yes 🗸 No	
Remarks:									
1									
1									
1									



Wetland data point wnrp016f\_w facing southeast.



Wetland data point wnrp016f\_w facing northeast.

Project/Site: ACP	City/County: Northampton Sampling Date: 619115
Applicant/Owner: Dominion	State: NC Sampling Point: Why police-w
Investigator(s): ESI (Roper Turnbull)	Section, Township, Range: VOVC
· · · · · · · · · · · · · · · · · · ·	Local relief (concave, convex, none): Flat Slope (%): 0-3/6
Subregion (LRR or MLRA): LRK P Lat: 36.	53923 Long: -77, 34766 Datum: W1-584
Soil Map Unit Name: Romoke Siltloam, DLC	asionally floodedwww classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	Zi
Are Vegetation, Soil, or Hydrology significantly	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No No	is the Sampled Area
Wetland Hydrology Present? Yes No	within a wetland? Tes No No
Remarks:	
powerline easement, cor	servation area
0.10	1301 0001 1011 011 000
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	——————————————————————————————————————
High Water Table (A2)  Mart Deposits (B)	
Saturation (A3)	
Water Marks (B1) Oxidized Rhizosp	oheres along Living Roots (C3) Dpy-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfar ☐ Iron Deposits (B5) ☐ Other (Explain in	
Injundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	es): 3"
Water Table Present? Yes No Depth (inch	
Saturation Present? Yes No Depth (inch	es): <u>surface</u>   Wetland Hydrology Present? Yes V No
(includes capitlary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
gaogo; montoning train, gonat pri	otos, provides inspection, it available.
Remarks:	

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

Court (i car cirata) - Coc colonimo na		Satispang Point.
Tree Stratum (Plot size: 30ff x30ff)	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2.		
3.		Total Number of Dominant Species Across All Strata: (B)
		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6.		
7.		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
v	= Total Cover	OBL species x 1 =
		FACW species x 2 =
50% of total cover:	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 30++ x 30++		FAC species x 3 =
1. MONE		FACU species x 4 =
2		UPL species x 5 =
		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6.		1 <del></del>
7		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
8		☐ 3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of total cover:	, , , , , , , , , , , , , , , , , , , ,
Herb Stratum (Plot size: 30f+ x30f+)		the mark of the ma
1. Juncus effusus	40 Y OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
San barrier		·   · ·
2. Saccharum giganteum		Definitions of Four Vegetation Strata:
3. Carexsp. JU	10 N >FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		height.
6		
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb – All herbaceous (non-woody) plants, regardless
9		
		<u> </u>
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12.		-
	<u>65</u> = Total Cover	
50% of total cover: 3	2.520% of total cover: 3	
Woody Vine Stratum (Plot size: 30ff x30ff)	2010 01 total 00 (0), <u>  } *****</u>	-
1. hone		-
2		_
3		
		<del></del>
4		-
5		- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations b	eiow).	
I .		

Profile Desc	ription: (Describe	to the dept	n needed to docum	nent the i	ndicator	or confirm	the absence of i	indicators.)
Depth	Matrix		Redox	x Feature	s			·····
(inches)	Color (moist)	<u>%</u> .	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10 1 10 11	. <u>100</u> -		·			<u> </u>	
<u>6-20</u>	10162	95	104246	_ <u>5</u> _	_ <u>C_</u>	PL	<u> 50L _</u>	
	-							
		-						
					· · · · · · · · · · · · · · · · · · ·			
		-						
					. ——			
·								
	oncentration, D=Dep					ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
l	ndicators: (Applic	anie to aii i				DD 0 7 1		Problematic Hydric Soils <sup>3</sup> :
Histosol	(AT) Dipedon (A2)		Polyvalue Be Thin Dark Su					k (A9) (LRR O) k (A10) (LRR S)
Black Hi			Loamy Muck			•		Vertic (F18) (outside MLRA 150A,B)
: ==	n Sulfide (A4)		Loamy Gleye			,		Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted Ma	trix (F3)				us Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	-			(MLRA	
	icky Mineral (A7) (Li		Depleted Da					nt Material (TF2)
	esence (A8) (LRR l ıck (A9) (LRR P, T)	J)	Redox Depre		-8)			llow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Oc		/MIRA1	51)	Uner (Ex	plain in Remarks)
· —	ark Surface (A12)	,	Iron-Mangan		•	•	, T) Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) (		N) 🔲 Umbric Surfa	ace (F13)	(LRR P,	Τ, U)		nd hydrology must be present,
	Nucky Mineral (S1) (	LRR O, S)	Delta Ochric					s disturbed or problematic.
	Sleyed Matrix (S4)		Reduced Ve					
	Redox (S5) I Matrix (S6)		Piedmont Fi	-	-		49A) RA 149A, 153C, 1	E2D)
	irface (S7) (LRR P,	S. T. U)	Anomatous i	Dilgill Loa	arisy Solis	(F20) (WIL	KA 149A, 193C, 1	550)
	Layer (if observed)					•		to the second state of the second state of the second seco
Type:								,
Depth (in	ches):	·					Hydric Soil P	resent? Yes No
Remarks:								
1								
ļ								



Wetland data point wnrp016e\_w facing east.

Project/Site: ACP	City/County: Northampton Sampling Date: 6/9/15
Applicant/Owner: Pominion	State: NC Sampling Point: Which UIL-W
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: None
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): 1104 Slope (%): 0-31/
Subregion (LRR or MLRA): LR P Lat: 36.	53917 Long: -77, 34763 Datum: W6584
Soil Map Unit Name: Loanoke silt bam, occ	Casionally flooded Wiclassification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland? Yes No
One I House to Come	
Road through consi	ervation area -
on fill material (sand overly)	ng gravel)
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 (B	
High Water Table (A2)  High Water Table (A2)  Marl Deposits (B1	
Saturation (A3) Hydrogen Sutfide Water Marks (B1) Oxidized Rhizospi	Odor (C1)
Sediment Deposits (B2)  Sediment Deposits (B2)  Presence of Redu	· · · · · · · · · · · · · · · · · · ·
	action in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	e (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
L Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	(a). NA
Water Table Present? Yes No Depth (Inche	(s): >20
Saturation Present? Yes No Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

5. \_\_\_\_\_

1. Arundinaria gigantea 10 y FACW

6. \_\_\_\_\_

1. Smilax rotundifolia 5 Y FAC

Tree Stratum (Plot size: 15ff x 40ff )

Sapling/Shrub Stratum (Plot size: 15f) x40f+

1. none

Herb Stratum (Plot size: 15ft x 40ft)

1. none

Absolute Dominant Indicator

O = Total Cover

O = Total Cover

\_\_\_\_ = Total Cover

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

50% of total cover: \_\_\_\_ 20% of total cover: \_\_\_

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_

\*\* Cover Species? Status

Sampl	ing Point: Wn	10016_L
Dominance Test worksheet:		
Number of Dominant Species That Are OBL, FACW, or FAC:	_ 2	(A)
Total Number of Dominant Species Across All Strata:		(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	_100	(A/B)
Prevalence Index worksheet:	<del></del>	
Total % Cover of:	Multiply by:	
OBL species x	1=	
FACW species x	2 =	_
FAC species x	3 =	_
FACU species x	4 =	_
UPL species x	5 =	_
Column Totals: (A	.)	(B)
Decorded to the Color		
Prevalence Index = B/A =		
Hydrophytic Vegetation Indicate  1 - Rapid Test for Hydrophy  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0  Problematic Hydrophytic Ve	tic Vegetation 6	ain)
<sup>1</sup> Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation	problematic. Strata:	
Tree – Woody plants, excluding more in diameter at breast heig height.		
Sapling/Shrub – Woody plants than 3 in. DBH and greater than	, excluding vine 1 3.28 ft (1 m) ta	s, less II.
Herb – All herbaceous (non-wo of size, and woody plants less t		ardless
Woody vine – All woody vines height.	greater than 3.2	28 ft in
Hydrophytic Vegetation Present? Yes	No	

5	5 = Total Cover
	50% of total cover: 2 5 20% of total cover:
Remarks: (If observed, list me	orphological adaptations below).
roadside	veg.

3. \_\_\_\_

Woody Vine Stratum (Plot size: 15ft × 40ft)

OIL						Sampling Point:
Profile Description: (De	scribe to the dept	h needed to docu	ment the indicator	or confirm t	he absence of it	ndicators.)
Depth (inches) Color (n		Redo Color (moist)	ox Features  Type¹	Loc <sup>2</sup>	Texture 5	Remarks
ype: C=Concentration ydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A	(Applicable to all I	RRs, unless othe Polyvalue Bo Thin Dark So Loamy Muck		LRR S, T, U) , T, U)	Indicators for 1 cm Muck 2 cm Muck Reduced \	=Pore Lining, M=Matrix. Problematic Hydric Soils³: (A9) (LRR O) (A10) (LRR S) /ertic (F18) (outside MLRA 150A,B) Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5 Organic Bodies (A6) 5 cm Mucky Mineral Muck Presence (A8) 1 cm Muck (A9) (LR Depleted Below Dar Thick Dark Surface (Coast Prairie Redox Sandy Mucky Mineral Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (I	(LRR P, T, U) (A7) (LRR P, T, U) (LRR U) R P, T) k Surface (A11) (A12) (A16) (MLRA 150A al (S1) (LRR O, S) k (S4) LRR P, S, T, U)	Depleted Da Redox Depr Redox Depr Marl (F10) ( Depleted Oc iron-Mangai Umbric Surf Delta Ochric Reduced Ve	Surface (F6) ark Surface (F7) essions (F8)	(LRR O, P, <sup>-</sup> T, U) )   50A, 150B)   (MLRA 149	(MLRA 1 Red Parer Very Shall Other (Exp  T) 3 Indicato wetland unless	nt Material (TF2) ow Dark Surface (TF12) plain in Remarks) rs of hydrophylic vegetation and d hydrology must be present, disturbed or problematic.
Restrictive Layer (if ob Type:	served);			s 187 934 - U	Hydric Soil Pro	esent? Yes No
Remarks:					nyunc son Pro	esent? Yes No V
gravel	below to eva	1	could (road		auge	r past



Upland data point wnrp016\_u facing southwest.



Upland data point wnrp016\_u facing northwest.

### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pig	peline	City/C	county: Northampton		Sampling Date: 3/25/2015
Applicant/Owner: Dominion		•		_ State: NC	Sampling Point: wnrb106s_w
Investigator(s): TP, AS		Section	on, Township, Range: No		
Landform (hillslope, terrace, et					Slone (%)·2
Subragion (LBB or MLBA): P	0.).	1 at: 36.53797812	Long: -77.5	34335175	Clope (70)
Subregion (LRR or MLRA): P Soil Map Unit Name: Roanoke	silt loam, 0 to 2 pe	_ Latercent slopes, occasionally f	flooded	NNAU alaaaifi aas	Datum
Are climatic / hydrologic condit					
Are Vegetation, Soil				Circumstances" pre	esent? Yes Vo No
Are Vegetation, Soil	, or Hydrology	y naturally problema	atic? (If needed, e	explain any answers	in Remarks.)
SUMMARY OF FINDIN	GS – Attach si	ite map showing sam	pling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Pres	ent? Ves	✓ No			
Hydric Soil Present?	Yes	No	Is the Sampled Area	Yes_	NI-
Wetland Hydrology Present?		_	within a Wetland?	Yes	No
Remarks:					
PSS wetland depicted on NW	I maps. Dominant	plants include black willow,	red maple and giant can	ne. Area timbered a	pproximately 15-years-ago,
and skidder ruts and soil com	paction have perch	led water table.			
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum	of one is required;			Surface Soil C	` ,
Surface Water (A1)		True Aquatic Plants (			tated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Patte	erns (B10)
Saturation (A3)		Oxidized Rhizosphere	• , ,	Moss Trim Line	
Water Marks (B1)		Presence of Reduced	l Iron (C4)	Dry-Season W	ater Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burro	ws (C8)
Drift Deposits (B3)		Thin Muck Surface (C			ble on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or Stre	essed Plants (D1)
Iron Deposits (B5)				Geomorphic Po	
Inundation Visible on Ae				Shallow Aquita	
Water-Stained Leaves (E	39)			<u>✓</u> Microtopograp	* *
Aquatic Fauna (B13)				FAC-Neutral T	est (D5)
Field Observations:					
Surface Water Present?		Depth (inches):	0		
Water Table Present?		Depth (inches):	0		_
Saturation Present?	Yes No	Depth (inches):	Wetland F	lydrology Present?	? Yes / No
(includes capillary fringe)  Describe Recorded Data (stre	 eam gauge, monito	oring well, aerial photos, pre	l vious inspections), if ava	ilable:	
			. ,		
Remarks:					
Area timbered approximately	15 years ago, skide	der ruts and soil compaction	have perched water tab	le.	

Sampling Point will 1005_	Point: wnrb106s_v	ampling	S
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1. Salix nigra		Yes	OBL	That Are OBL, FACW, or FAC:5 (A)
2. Acer rubrum	5	Yes	FAC	
3				Total Number of Dominant Species Across All Strata: 5 (B)
4	-			Species Across Air Strata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Dravial and a landay want about
7				Prevalence Index worksheet:
	10	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 5		total cover:	2	OBL species 30 x 1 = 30
Sapling/Shrub Stratum (Plot size: 15 )		_		FACW species65
1 Salix nigra	25	Yes	OBL	FAC species 30 x 3 = 90
2. Acer rubrum	25	Yes	FAC	FACU species 0 x 4 = 0
2. Acer rubrum		163	170	
3				UPL species $\begin{array}{c} 0 \\ 125 \\ \end{array}$ $\begin{array}{c} x \ 5 = \\ 250 \\ \end{array}$
4				Column Totals: (A) (B)
5				Prevalence Index - R/A - 2
6				Trevalence mack = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0¹
		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Arundinaria gigantea	65	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
0				Holghi.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	65	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:32.5	20% of	total cover:	13	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				neight.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s				
remarks. (include prioto numbers here of off a separate s	neet.)			

Profile Desc	ription: (Describe to	o the dep	th needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	(Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/2	95	10YR 4/6	5	С	PL	SCL	
			-					
				-	-			
			·					
					-			-
					-		2	
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Bel	low Surfa	ce (S8) (N	ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		✓ Redox Dark S	Surface (F	<del>-</del> 6)		V	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		0	ther (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)			
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Mass	es (F12) (	LRR N,		
MLRA	\ 147, 148)		MLRA 136	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
Sandy R	tedox (S5)		Piedmont Flo				<b>8)</b> we	tland hydrology must be present,
	Matrix (S6)		Red Parent M					ess disturbed or problematic.
	_ayer (if observed):					<u> </u>		·
Type:								
	choc):						Hydric Soil	Present? Yes V No No
	ches):		<del></del>				Tiyunc 3011	riesent: resNo
Remarks:								



Photo 1 Wetland data point wnrb106s\_w facing east



Photo 2
Wetland data point wnrb106s\_w facing north

### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Northampton		Sampling Date: 3/25/2015
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb106_u
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): hill sle					
Subregion (LRR or MLRA): P	Lat: 36	.53783365	Long: -77.3	34327709	Datum: WGS 1984
Soil Map Unit Name: Roanoke silt loam	, 0 to 2 percent slo	pes, occasionally t	flooded	NWI classific	ation: None
Are climatic / hydrologic conditions on th	ne site typical for th	is time of year? Y	es No (	(If no, explain in R	emarks.)
Are Vegetation, Soil, or I	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or I					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	Yes <u> </u>	No			
Hydric Soil Present?	Yes 1		Is the Sampled Area within a Wetland?	Vas	No
Wetland Hydrology Present?	Yes 1		within a wettand:	163	
HYDROLOGY					
Wetland Hydrology Indicators:					tors (minimum of two required)
Primary Indicators (minimum of one is	•			Surface Soil	
Surface Water (A1)		e Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	· · · · · · · · · · · · · · · · · · ·	drogen Sulfide Ode		Drainage Pat	
Saturation (A3) Water Marks (B1)		sence of Reduced	-	Moss Trim Li	Water Table (C2)
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)		n Muck Surface (C		· ·	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		ner (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)	<del></del>	` '	•	Geomorphic	, ,
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)				Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
	No 🔽 De				
	No 🖍 De				
(includes capillary fringe)	No 🔽 De			lydrology Presen	t? Yes No
Describe Recorded Data (stream gaug	e, monitoring well,	aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

Sampling Point: wnrb106_	nrb106_u	Point <sup>®</sup>	Sampling
--------------------------	----------	--------------------	----------

•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:30)  1 Pinus taeda	% Cover 45	Species? _ Yes	Status FAC	Number of Dominant Species
I				That Are OBL, FACW, or FAC:4 (A)
2		·		Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	45	Tatal Cause		Total % Cover of: Multiply by:
50% of total cover: 22.5		= Total Cover total cover:	9	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 )	20 /6 01	total cover		FACW species5
1 Acer rubrum	20	Yes	FAC	FAC species 75 x 3 = 225
2. Liquidambar styraciflua	10	Yes	FAC	FACU species 0 x 4 = 0
	•	•		UPL species 0 x 5 = 0
				Column Totals: 80 (A) 235 (B)
4				, , ,
5				Prevalence Index = B/A =2.93
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8	-			✓ 2 - Dominance Test is >50%
9	30			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 15		= Total Cover total cover:	6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 % of total cover	20% 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	5	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2	-			
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4	-			be present, unless disturbed or problematic.
5	-			Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				neight.
9.	-			Sapling/Shrub – Woody plants, excluding vines, less
10.	-			than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.	-			
	5	= Total Cove	•	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cover:		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				neight.
2				
3				
4		·		
5.	-			Hydrophytic Vegetation
<u> </u>	0	= Total Cove	-	Present? Yes No
50% of total cover: 2.5		total cover:	1	
Remarks: (Include photo numbers here or on a separate s				
Tromano. (morado proto namboro nore di una deparate d	11001.)			

Depth	Matrix		Redox Features	<del></del>	
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Loc		Remarks
0-4	10YR 3/3	100		SL	
4-12	10YR 5/4	100		SCL	
	-	· ——— —			
,					
	-	· — — —	<del></del>	<del></del>	<del>-</del> -
	-	· <u> </u>	<del></del>		<del>-</del> -
		·			_
				<u> </u>	
		· <del></del> -		2	
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix.
•	Indicators:				cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie Redox (A16)
Black H	stic (A3)		Thin Dark Surface (S9) (MLRA 147, 14	<del>1</del> 8)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	ıck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Manganese Masses (F12) (LRR I	١,	
MLR	A 147, 148)		MLRA 136)		
Sandy C	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122	2) <sup>3</sup> lr	ndicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils (F19) (MLR	<b>A 148)</b> v	vetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 127	, <b>147)</b> և	unless disturbed or problematic.
Restrictive	Layer (if observed):				
Type:					
	ches):		_	Hydric Sc	oil Present? Yes No
	onco)		<del>_</del>	1194110 00	711 103CHL 103 110
Remarks:					



Photo 1 Upland data point wnrb106\_u facing south



Photo 2 Upland data point wnrb106\_u facing west

Project/Site: ACP	City/County: Northampton Sampling Date: 5/24/16
Applicant/Owner: Dominion	State: NC Sampling Point: wnro 005+
Investigator(s): ESI-L. Roper, S. Bryan	Section, Township, Range: NONE
Landform (hillslope, terrace, etc.): flood plain  Subregion (LRR or MLRA): LRP P Lat: 36.	Local relief (concave, convex, none): <u>Flut</u> Slope (%): <u>6-3</u> 536100 Long: <u>-77.34687</u> Datum: <u>W 6584</u>
Soil Map Unit Name: Altavista fine sand	Y 10 00 171 IVVI CidsSilication.
Are climatic / hydrologic conditions on the site typical for this time of ye	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 pr	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area within a Wetland?  Yes No
NCWAM: Headwater Fores	+
HYDROLOGÝ	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B1)	144 MANAGERIA (1984) AND AND AND AND AND AND AND AND AND AND
High Water Table (A2) Saturation (A3)  Hydrogen Sulfide	
16 To Anna Anna Anna Anna Anna Anna Anna Ann	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface	[MANGANGAN MANGAN NATIONAL NATIONAL ACTION AND A CONTROL OF A
Iron Deposits (B5) Unundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s): NA
Water Table Present? Yes No Depth (inches	320
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S):   Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
Tight and the second se	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)	% Cover	Species?		Number of Dominant Species 4
1. Acer rubrum.	15	y	FAL	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2. Betula nigra	15	Y	FACW	
3. Platanus occidentalis	10	N	FACW	Total Number of Dominant Species Across All Strata: (B)
		-14	FAL	Species Across All Strata: (B)
4. Liquidambay Styraciflua			FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]				Total % Cover of: Multiply by:
8	55	= Total Cov		OBL species x 1 =
0.7			Attack BOT Sewill State Bridge	FACW species x 2 =
50% of total cover: 27.	20% of	total cover	:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				TO TOPO AND THE RESIDENCE AND ADDRESS OF THE ADDRES
1. Liguidam bor styraciflua	5	<u> </u>	FAC	FACU species x 4 =
2. Auer rubrum	5	Y	FAL	UPL species x 5 =
3.				Column Totals: (A) (B)
TABLE TO A SECRET OF THE SECRET OF THE SECRET SECRE	PROPERTY OF STREET	AND TOWNSON	400000000000000000000000000000000000000	
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
В.				☐ 3 - Prevalence Index is ≤3.0¹
	10	= Total Cov	105	
6			9	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 5	20% of	total cover	-	
Herb Stratum (Plot size: 30ft x 30ft)		1		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Impatiens capensis	15	N	FALW	be present, unless disturbed or problematic.
2. Woodwardin arcolata	10	N	DBL	Definitions of Four Vegetation Strata:
3. Juneus effusus	20	Y	OBL	
The state of the s	50	1,	FACW/OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Leersia sp.	50		THE TOTAL	more in diameter at breast height (DBH), regardless of height.
5.			A COMMENT OF STREET	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
Application of the control of the co	SECULO SECULO AND	the control of the	Language Street, Stree	of size, and woody plants less than 3.28 ft tall.
9	Constitution States and States of the	Constitution of the Constitution of the Constitution of	Single Acuta drap or Stock (MISS)	
10.				Woody vine - All woody vines greater than 3.28 ft in
<b>11.</b>				height.
12				
	95	= Total Cov	ver	
50% of total cover: 47	5 20% 0	total cover	. 19	
Woody Vine Stratum (Plot size: 30f+ x30f1)				
voody virie Stratum (Flot size. 3014 x3471)	10	V	FAC	
1. Toxico dendron radicans			THO	
2,		100000000000000000000000000000000000000		
3				
4				
5.	LD			Hydrophytic Vegetation
-	The A. March out comments.	= Total Co	1	Present? Yes No
50% of total cover:	20% of	f total cover		
Remarks: (If observed, list morphological adaptations belo	ow).			

Profile Desc	ription:	(Describe t	o the depth	needed	d to docur	nent the in	dicator o	or confirm t	he absence of	indicators.)
Depth (inches)	Colo	Matrix r (moist)	% -	Color	Redo (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture	Remarks
(inches)	7.5	7 4/		1048		20	C	M	CL	
000	-				10					
						-				
						S-Markad	Cand Can	lne -	21 position: Pl	L=Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Co	ndicato	ion, D=Deplica	etion, RM=R	RRs. ur	less othe	rwise note	d.)	IIIIS.		r Problematic Hydric Soils <sup>3</sup> :
☐ Histosol		o. (Abbiio						RR S, T, U)	1 cm Mu	ck (A9) (LRR O)
Histic Ep		A2)		□ Th	nin Dark Su	urface (S9)	(LRR S,	T, U)		ck (A10) (LRR S)
Black His						y Mineral (I		0)		Vertic (F18) (outside MLRA 150A,B) It Floodplain Soils (F19) (LRR P, S, T)
Hydroge Stratified					epleted Ma	ed Matrix (F	2)			us Bright Loamy Soils (F20)
		(AS) A6) (LRR P,	T. U)	1	65. <b>2</b> . ACD 48: 0.634 4875 305 694 EU	Surface (F6	5)			(153B)
5 cm Mu	icky Mine	eral (A7) (LR	R P, T, U)	□ D	epleted Da	rk Surface	(F7)			ent Material (TF2)
		AB) (LRR U)	)			essions (F8	)			allow Dark Surface (TF12) xplain in Remarks)
		(LRR P, T) Dark Surface	. (Δ11)		arl (F10) (I	chric (F11) (	MI RA 15	(1)	D Oulei (E.	xpiairi iii Kemarks)
Thick Da			2 (711)					LRR O, P, T		ors of hydrophytic vegetation and
			/LRA 150A)	□ U	mbric Surfa	ace (F13) (I	RR P, T		wetla	nd hydrology must be present,
		neral (S1) (L	.RR O, S)			(F17) (MLI		04 4508)	unles	s disturbed or problematic.
Sandy G		atrix (S4)				rtic (F18) (I		(MLRA 149	(A)	
Stripped									149A, 153C, 1	153D)
☐ Dark Su	rface (S7	7) (LRR P, S								
Restrictive	Layer (if	observed):								
Type:				_					U.dda Call D	resent? Yes No
1900 Philipper Production Line	ches):_								nyuric soil F	resent res no
Remarks:										



Wetland data point wnro003f\_w facing southeast.



Wetland data point wnro003f\_w facing south.

Applicant/Owner: Dominion Investigator(s): ESI - L. Roper, 5. Bryan Section Landform (hillslope, terrace, etc.): terrace Local Subregion (LRR or MLRA): LRR P Lat: 36.531 Soil Map Unit Name: Altavista fine Sandy 19 Are climatic / hydrologic conditions on the site typical for this time of year? You	relief (concave, convex, none):
Are Vegetation, Soil, or Hydrology significantly disturt	
Are Vegetation, Soil, or Hydrology naturally problems SUMMARY OF FINDINGS - Attach site map showing sam	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Hydrophytic Vegetation Present? Yes No No Remarks:	Is the Sampled Area within a Wetland?  Yes No
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Aquatic Fauna (B13)  High Water Table (A2) Hydrogen Sulfide Odor (C)  Saturation (A3) Hydrogen Sulfide Odor (C)  Water Marks (B1) Oxidized Rhizospheres all  Sediment Deposits (B2) Presence of Reduced Iron  Presence of Reduced Iron  Recent Iron Reduction in  Algal Mat or Crust (B4) Thin Muck Surface (C7)  Iron Deposits (B5) Other (Explain in Remark  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	C1)
Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, present)	Wetland Hydrology Present? Yes No
Remarks:	

2.0. 2.0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)  1. Pinus taeda	% Cover 2D	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:
2. Liquidambar styraciflua 3.	15	7	FAL	Total Number of Dominant Species Across All Strata:  (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.	- 0.0			OBL species x1 =
		= Total Cov	State of the latest and the latest a	FACW species x 2 =
50% of total cover: 17.5	20% of	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ff x30ff)	-	V	en	FACU species x 4 =
1. Ligardambar styraciflua	10	1	FAC	UPL species x 5 =
2.				Column Totals: (A) (B)
3.				Coldrill Totals (a) (b)
4,				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
	10	= Total Cov	rer	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 5	_ 20% of	total cover		
Herb Stratum (Plot size: 30ff x 30ff)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. none				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.	WEST CONTRACTOR AND THE PROPERTY.	SUPERANDA HONASTA PATA	SHETSOF BROKESHOUSE	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	THE RESERVE OF THE RE		CONTRACTOR STATE	Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				
	D	= Total Cov	/er	
50% of total cover:	A CHEARING THE STREET	total cover		
Woody Vine Stratum (Plot size: 30 F4 x 30 F4)	_ 20 /0 0	total cover		
1. Parthenocissus quinquefolia	5	Y	FACU	
2				
		T SMITTER		
5.	-	National Services		Hydrophytic Vegetation
16	TANK LATIONAL PARTY CONTRACTOR	= Total Cov	A CONTRACTOR OF STREET	Present? Yes No No
50% of total cover: 2.5		total cover	porting of the same of	
Remarks: (If observed, list morphological adaptations below	w).			

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the in	ndicator	or confirm	the absence of inc	dicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)		Color (moist)	%	Type'	Loc		Remarks
0-1	2.54 43	100						
1-6	2.5 15 3	85	10425/8	15	C	M	CL_	
1-20	2.5 76/6	100					CL	
0	2.0 1 10							
						A TORREST AND A SECOND	Account The Street Control of the Control	
					±			
¹Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	Sand G	ains.		Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)		Indicators for P	roblematic Hydric Soils <sup>3</sup> :
☐ Histosol			☐ Polyvalue Be			RR S, T, U		(A9) (LRR O)
TO A SHARE THE RESIDENCE OF THE PARTY OF THE	oipedon (A2)		Thin Dark St					(A10) (LRR S)
Black Hi			Loamy Muck			(0)		ertic (F18) (outside MLRA 150A,B)
to the property of the state of	n Sulfide (A4)		Loamy Gley		F2)			loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	Layers (A5)	T 115	Depleted Ma	report the Ebull Other her officer	6)		(MLRA 15	[8] 18] The Control of the Control o
	Bodies (A6) (LRR P cky Mineral (A7) (LF		Redox Dark Depleted Da					Material (TF2)
	esence (A8) (LRR U		Redox Depr				Very Shallo	w Dark Surface (TF12)
The second of the second second second second second	ick (A9) (LRR P, T)		☐ Marl (F10) (I	LRR U)				ain in Remarks)
	d Below Dark Surfac	e (A11)	☐ Depleted Oc	chric (F11)	X HSBH/9-ALFERS (901).02			
	ark Surface (A12)		Iron-Mangar					of hydrophytic vegetation and hydrology must be present,
	rairie Redox (A16) (I							isturbed or problematic.
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric					istarbed of problemase.
	Sleyed Matrix (S4) Redox (S5)		Piedmont FI					
	Matrix (S6)						A 149A, 153C, 153	D)
	rface (S7) (LRR P, S	S, T, U)						
	Layer (if observed)						The second second	
Type:			<u></u>					
Depth (in	ches):						Hydric Soil Pres	sent? Yes No_V
Remarks:								



Upland data point wnro003\_u facing north.



Upland data point wnro003\_u facing northwest.

Project/Site: ALP City/C	County: Northampton Sampling Date: 5/24/16
Applicant/Owner: Dominion	State: N C Sampling Point: wnroduzt
Investigator(s): ESI-L.Roper, S. Bryan Section	on Township, Range: none
Landform (hillstone terrace etc.): Fleedolain Local	relief (concave, convex, none): None Slope (%): 0-3
Subscript (IRR settle) 1 & D Lati 3 la 53	494 Long: -77.33979 Datum: W 6589
Soil Map Unit Name: Altavista fine sandy lo	ANAL classification: PE6
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem.	
SUMMARY OF FINDINGS – Attach site map showing san	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
Area between RR and Ro	lo-d
NCWAM: Headwater Forest	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  High Water Table (A2)  Marl Deposits (B15) (LR	
Saturation (A3) Hydrogen Sulfide Odor (	
Water Marks (B1) Oxidized Rhizospheres a	: :::::::::::::::::::::::::::::::::::
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron Reduction in	:
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remark	있어요는 이번 하는 사람이 되면 보면 되어 있다. 전에 가득하는 바로 바로 하는 사람들이 되었다면 하는데 하는데 하는데 보고 있다. 그는 사람들이 되었다는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	2"
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Describe (1886) dea Data (enean) gaage, maintain green, asia, protect, pro	
Remarks:	
I wall and in	ind to
portions of wetland in	monted

	Absolute	Daminan	4 Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30f+ x 30f+)			t Indicator 7 Status	
Tree Stratum (Flot size. 3011 X 3011)		Species	to the commence of the second	Number of Dominant Species
1. Liquidambar styraciflua	10	- P	FAC	That Are OBL, FACW, or FAC:(A)
2. Pinus talda	15	<u> </u>	FAC	Total Number of Dominant
3. Persea Palustris	5	N	FACW	Species Across All Strata: (B)
4. Aler rubrum	20	V	FAL	
Control of the Contro		-	-	Percent of Dominant Species
5. Salik nigra	5	1/	OBL	That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
THE REPORT OF THE PARTY OF THE		angress.com		Total % Cover of: Multiply by:
8.		1942 SOLVENS		OBL species x 1 =
	55	= Total Co	ver	● COMPRESSION AND PROPERTY AND A SERVICE SE
50% of total cover: 27.5	5 20% of	total cove	r 11	FACW species x 2 =
	20,00	10141 0010		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FACU species x 4 =
1. none				UPL species x 5 =
2.				<ul><li>(日本のではなるのでは、これは、これでは、これをは、これをは、これをは、これをは、これをは、これをは、これをは、これを</li></ul>
				Column Totals: (A) (B)
3.				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
A BACK TO A MANAGEMENT OF A STATE OF A STATE OF THE STATE				
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				☐ 3 - Prevalence Index is ≤3.01
The same of the sa	0	= Total Co	Ver	
이 없는 사람들은 사람들은 아니라 그는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	Driver more than or or old			Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r:	
Herb Stratum (Plot size: 30ff x 30ff)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Woodwardin areolata	10	Y	OBL	be present, unless disturbed or problematic.
	10	V	FAL	Definitions of Four Vegetation Strata:
2. Athyrium asplenioides		-1	-	Definitions of Four Vegetation Strata.
3. Saururus cernuus	10	<u> </u>	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
THE REPORT HAS A REPORTED THE PROPERTY OF THE	Morron P. Cartallo Mandell	ON THE PERSONS ASSESSED.		height.
5.				
6.				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
	1000000000	1019-0500-0700		ilicigra.
12.			A Course of the Course	
	30	= Total Co	ver	
50% of total cover: 15	20% of	total cove	r. 6	
Woody Vine Stratum (Plot size: 30ft x 30ft)				
	10	V	CAC	
1. Vitis rotundifolia	0		FAC	
2. Smilax rotundifolia	10	Y	FAC	
3.		TO SUPERIOR	100	
4.				
5.				Hydrophytic
	25	= Total Co	wer	Vegetation
	A Committee of the Comm		CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	Present? Yes No
50% of total cover: 12 s	3 20% of	total cove	r: _ 3	
Remarks: (If observed, list morphological adaptations belo	w).		The state of the	

ofile Description: (Describe to	the depth need		ent the ind	icator o	or confirm t	he absence of ind	icators.)
nches) Color (moist)		r (moist)	%	ype <sup>1</sup>	Loc²	Texture	Remarks
-20 2.5431	97 104	R 5/6	3	C	M	CL_	
ype: C=Concentration, D=Depleted ic Soil Indicators: (Applical Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRF Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (M) Sandy Mucky Mineral (S1) (LF Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S,	T, U)  R P, T, U)  (A11)  LRA 150A)  RR O, S)	unless others Polyvalue Bela Thin Dark Sur Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres Marl (F10) (LF Depleted Och Iron-Mangane Umbric Surfac Delta Ochric ( Reduced Vert Piedmont Floe	wise noted.  ow Surface face (S9) (L Mineral (F1 Matrix (F2 ix (F3) urface (F6) c Surface (F6) c Surface (F8) RR U) ric (F11) (M ric (F13) (LF F17) (MLR. ic (F18) (MI odplain Soil	) (S8) (L .RR S, ') ) (LRR ) (F12) (F12) (RR P, T A 151) LRA 15 s (F19)	RR S, T, U) T, U) O) 51) LRR O, P, T , U) (MLRA 149	Indicators for Pr  1 cm Muck (A 2 cm Muck (A Reduced Ver Piedmont Fic Anomalous E (MLRA 15: Red Parent N Very Shallow Other (Expla	A10) (LRR S) tic (F18) (outside MLRA 150A,B podplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 3B) Material (TF2) Dark Surface (TF12) in in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Type:						Hydric Soil Pres	ent? Yes No
Depth (inches):emarks:	CO ARREST					Hydric Soil Pres	ent? YesNo



Wetland data point wnro002f\_w facing east.



Wetland data point wnro002f\_w facing south.

Applicant/Owner: <u>Pominion</u> Investigator(s): <u>ESI-L.Roper</u> , S. Bryan Landform (hillslope, terrace, etc.): <u>Floodplain</u>	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>D-3</u> 535 04 Long: -77, 33995 Datum: <u>W6384</u>
Soil Map Unit Name: Altavista fine sandy  Are climatic / hydrologic conditions on the site typical for this time of yea  Are Vegetation, Soil, or Hydrology significantly of  Are Vegetation, Soil, or Hydrology naturally pro  SUMMARY OF FINDINGS - Attach site map showing	ar? Yes No (If no, explain in Remarks.) disturbed?
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Yes No  Yes No	Is the Sampled Area within a Wetland? Yes No
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Presence of Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Reduct Recent Iron Reduct Thin Muck Surface Other (Explain in Reference of Reduct Recent Iron Recent Re	O (LRR U)  Drainage Pattems (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  In Tilled Soils (C6)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Field Observations: Surface Water Present? Yes No Depth (inches) Water Table Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo  Remarks:	Wetland Hydrology Present? Yes No V

	Absolute I	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	% Cover			
	-	N	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:
1. Liriodendron tulipifera	25	V	-	That Ale OBE, FACTO, OTTAG.
	30	1	FAC	Total Number of Dominant
3. Liquidambar styraciflua	20	Y	FAC	Species Across All Strata: (B)
0				
				Percent of Dominant Species
5		STATISTICAL CONTRACTOR		That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
The state of the second of the second of the state of the second of the		Tale Military		Total % Cover of: Multiply by:
8.	10			OBL species x 1 =
	60 =			FACW species x 2 =
50% of total cover: 30	20% of to	otal cover	: 0	
Sapling/Shrub Stratum (Plot size: 30f+ x 30f+)				FAC species x 3 =
				FACU species x 4 =
1. none	A CHARLES			UPL species x 5 =
2.				19.20 App (19.00 (19.
3.				Column Totals: (A) (B)
\$2000 A 1990 B SEA AND THE SEA OF THE SEA BEAUTIFUL AND AND A SEA OF THE SEA				
4.	Securospervinger 3 or			Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
[2003] M. W. W. W. W. W. W. W. W. W. W. W. W. W.				HE
8	0-			☐ 3 - Prevalence Index is ≤3.01
	=	Total Co	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of to	otal cover		
Herb Stratum (Plot size: 30ft x 30ft)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Held Stratum (Flot size. 3011 A 301.)	10	V	CAC	be present, unless disturbed or problematic.
1. Athyrium aspleniaides	10_	1	FITC	THE RESIDENCE OF THE PROPERTY
2,				Definitions of Four Vegetation Strata:
3.	1967 40 40 50			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
ADD Process Continues of the State Continues of the State Continues of the State Continues of Laboratory State Continues of the State Con				more in diameter at breast height (DBH), regardless of
4.				height.
5				
6.				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
AND DECEMBER OF THE AND THE PROPERTY OF THE PR				
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.
\$25,000 Percent of the property of the percent of t	Annahaman i	Transport (a)		Tion of the control o
12.				
	=	Total Co	ver	AND THE PROPERTY OF THE PARTY O
50% of total cover:	20% of to	otal cove		
Woody Vine Stratum (Plot size: 30f+ x 30f+)			STATES THE	
	10	V	FAC	
1. 5 milax rotundifolia	10	7	-	
2. Vitis rotundifolia	15	У	FAC	
3.		3,2129,000,000		
4.				
5.				Hydrophytic
	25 =	Total Co	ver	Vegetation
12	And the state of the state of the		and the second second	Present? Yes No No
50% of total cover: 12	20% of t	otal cove		
Remarks: (If observed, list morphological adaptations belo	w).			

epth	Matrix			Features	3				
nches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture	730	Remarks
0-8	610 4 11	100					<u> LS</u>	250	manuel
8-15	2-5 4 3/4	100							
15-20	2.545/4	100					5		
Histosol Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast P Sandy M Sandy G	ndicators: (Applio (A1) pipedon (A2)	cable to all L P, T, U) RR P, T, U) U) ce (A11)	Delta Ochric Reduced Ver Piedmont Flo	wise not ow Surfa face (S9) Mineral d Matrix (F3) Surface (F k Surface ssions (F RR U) Iric (F11) ese Mass ce (F13) (F17) (MI tic (F18) odplain S	ed.) ce (S8) (L ) (LRR S, (F1) (LRR F2)  6) ((F7) 8)  (MLRA 1: es (F12) ( (LRR P, T LRA 151) (MLRA 15	RR S, T, L T, U) O) S1) LRR O, P, U) OA, 150B) (MLRA 14	Indicators  1) 1 cm N 2 cm N Reduct Piedm Anoma (MLI Red P Very S Other  T) 3Indic	for Proble fluck (A9) (I fluck (A10) ed Vertic (F ont Floodpl alous Bright RA 153B) arent Matei challow Dar (Explain in cators of hy tland hydro ess disturb	(LRR S) F18) (outside MLRA 150A, lain Soils (F19) (LRR P, S, t Loamy Soils (F20) rial (TF2) k Surface (TF12)
strictive	rface (S7) (LRR P, Layer (if observed						Ī		
Type:	The Contract of the Contract o						Hydric Soi	Present?	Yes No
Depth (in emarks:	cnes):						I II Julio Co.	odobě filozovaní od 1974 i Pr Central Investor († 1874)	



Upland data point wnro002\_u facing north.



Upland data point wnro002\_u facing west.

### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/C	ounty: Northampton	s	Sampling Date: 3/24/2015
Applicant/Owner: Dominion			State: NC	Sampling Point: wnrb102f_w
	Section			. , •
Landform (hillslope, terrace, etc.): drainagev				Slope (%): <sup>2</sup>
Subregion (LRR or MLRA): P	Lat: 36.53481498	Long: -77.33	566785	Datum: WGS 1984
Soil Map Unit Name: Wehadkee loam, 0 to 2	2 percent slopes, frequently flood	ded	NWI classificat	ion: PFO/SS1A
Are climatic / hydrologic conditions on the sit	te typical for this time of year? Y	res No (If	no, explain in Rer	marks.)
Are Vegetation, Soil, or Hydr	ology significantly distur	bed? Are "Normal C	ircumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydr				
SUMMARY OF FINDINGS – Attac			•	
Hydrophytic Vegetation Present? Y	∕es <u></u> No			
Hydric Soil Present?	/es No	Is the Sampled Area	v V	No
	′es ✓ No	within a Wetland?	Yes	. NO
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		S	econdary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is requ	ired; check all that apply)		_ Surface Soil Ci	
Surface Water (A1)	True Aquatic Plants (			tated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patte	
Saturation (A3)		es on Living Roots (C3)	-	
Water Marks (B1)	Presence of Reduced	d Iron (C4)	_ Dry-Season W	ater Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	_ Crayfish Burro	ws (C8)
Drift Deposits (B3)	Thin Muck Surface (C	<u> </u>	_ Saturation Visi	ble on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)	_ Stunted or Stre	essed Plants (D1)
Iron Deposits (B5)		_	_ Geomorphic Po	
Inundation Visible on Aerial Imagery (E	37)		_ Shallow Aquita	
Water-Stained Leaves (B9)			_ Microtopograpl	` '
Aquatic Fauna (B13)			FAC-Neutral To	est (D5)
Field Observations:	<b></b>			
	No Depth (inches):	10		
	No Depth (inches):	0		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hyd	drology Present?	Yes No
Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos, pre	vious inspections), if availa	ble:	
Remarks:				

Sampling	Point: wnrb102f_	W
Samonia	F()	

•	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
2. Betula nigra	15	Yes	FACW	Total Number of Demisers
3. Quercus pagoda	10	No	FACW	Total Number of Dominant Species Across All Strata: 4 (B)
4 Liquidambar styraciflua	10	No	FAC	(S)
·· <del>·</del>	-			Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	55			Total % Cover of: Multiply by:
07.5		= Total Cove	r 11	OBL species x 1 = 0
50% of total cover: 27.5	20% of	total cover:_		45
Sapling/Shrub Stratum (Plot size:)				racw species x z =
1. Acer rubrum	15	Yes	FAC	rac species x 3 =
2				FACU species x 4 =
3				UPL species $0 \times 5 = 0$
4		· ·		Column Totals:90 (A)225 (B)
5				0.5
				Prevalence Index = B/A = 2.5
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	45			3 - Prevalence Index is ≤3.0 <sup>1</sup>
7.5		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:_	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				• • • • • • • • • • • • • • • • • • • •
1. Arundinaria gigantea	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
F				Definitions of Four Vegetation Strata:
5				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	20	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10	20% of	total cover:	4	Was trades Allows to the constant to a 0.00 ft is
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3				
4				Hydrophytic
5				Vegetation Present?  Yes No
0		= Total Cove	^	Present? Yes No No
50% of total cover:0	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wnrb102f\_w

	cription: (Describe t	o the de				or confirm	the absence	of indicators.)
Depth	Matrix	%	Color (moist)	K Feature	S Tuno <sup>1</sup>	Loc <sup>2</sup>	Touturo	Domorko
(inches) 0-12	Color (moist) 10 YR 3/2	96	10 YR 4/6	<u>%</u> 4	Type <sup>1</sup> C	PL	Texture SCL	Remarks
			10 11( 4/0					
					· <del></del>			
					· <del></del>			
	-							
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM	I=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				·-, `	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		· -/		<u> </u>	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		✓ Redox Dark S	. ,	<del>-</del> 6)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	( ,	Redox Depre					(=
	Mucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangane			LRR N.		
	A 147, 148)	,	MLRA 136		, (	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	6. 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):			ratoriai (i	, <b>(</b>	,, , <u>_</u> ,, , ,,	, <u></u>	
Type:	, (,							
	ches):						Hydric Soil	Present? Yes No
							Hydric 30ii	Fresent: res NO
Remarks:								



Photo 1
Wetland data point wnrb102f\_w facing north



Photo 2
Wetland data point wnrb102f\_w facing west

Applicant/Owner: Dominion		State: NC Sampling Point: Wnrbloze
Subregion (LRR or MLRA): LRR P Soil Map Unit Name: We had Vee  Are climatic / hydrologic conditions on the site typ Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology	Lat: 36.53360  Lat: 36.53360  Dom, 0-27. Slopes ical for this time of year? Yes No significantly disturbed? Are naturally problematic? (If	convex, none :   Slope (%): 0-37   Long: 77.3382
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes  Remarks:	No Is the Sample within a Wetl	ed Area
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is 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 Imagery (B7)  Water-Stained Leaves (B9)	check all that apply)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRR U)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roc  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)	Crayfish Burrows (C8)
Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)	Depth (inches): >12 Depth (inches): >12	Control of the Contro

Tree Stratum (Plot size: 30ft x 30ft)  1. None	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: > 67 (A/B)
6.		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
B		OBL species x1 =
	O = Total Cover	FACW species x 2 =
	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)		FACU species x4 =
1. none		UPL species x5 =
2.		■ SEA AND SERVICE AND SERVICE AND AND SERVICE AND AND ADDRESS OF A SERVICE AND ADDRESS OF ADDRESS OF A SERVICE AND ADD
3.		Column Totals: (A) (B)
4,		Prevalence Index = B/A =
5.		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0¹
	O = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover-	20% of total cover:	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30ft x 30ft)		It is a state of the state of t
1. Carex lovida	20 Y OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Typha latifolia	TS Y OBL	Definitions of Four Vegetation Strata:
3. Junius effusus	TO N OBL	
5 5 6 1 5 CTTOSOS	TO N FALL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eupatorium capillifolium	ZD Y WIK	more in diameter at breast height (DBH), regardless of height.
5. Carex sp	Company of the state of the sta	
6.		Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.		
B.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Herb – All herbaceous (non-woody) plants, regardless
9.	CONTRACTOR CONTRACTOR CONTRACTOR	of size, and woody plants less than 3.28 ft tall.
10	A STATE OF THE PARTY OF THE PAR	Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12.		
	75 = Total Cover	Distriction of the control of the co
50% of total cover: 37 L	5 20% of total cover: 15	
Woody Vine Stratum (Plot size: 30ff x 30ff)		
1. none		
2.		
3.		
4.		
5.		
B. The complication is an abstract to the deposition of the complete t	O = Total Cover	Hydrophytic Vegetation
	Total Cover	Present? Yes No
50% of total cover:		
Remarks: (If observed, list morphological adaptations below	ow).	
HEREN SERVER STEEL STEEL STEEL HEREN SE SELECTER STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL S		

Matrix Matrix Reduced Matrix, MS-Masked Sand Grains.  Teduced Color (moles)  As SC Color (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color (preparation (moles)  Color
Pet: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Policy C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, RS, T, U)  Individual C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, D=Deple
Color (moist) 95 Color (moist) 95 Color (moist) 95 Type! Loc* Texture Remarks    Color (moist) 95 Color (moist) 95 Type! Loc* M SCL
rps: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosel (A1)  Histosel (A1)  Histosel (A2)  Histosel (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Cryanic Bodies (A6)  Lucamy Mucky Mineral (A7) (LRR P, T, U)  Depleted Matrix (F2)  Muck Presence (A8) (LRR U)  Lom Muck (A9) (LRR P, T, U)  Depleted Below Dark Surface (A11)  Tink Dark Surface (A12)  Loenty Gleyed Matrix (F3)  Mart (F10) (LRR U)  Depleted Below Dark Surface (A11)  Tink Dark Surface (A12)  Loenty Gleyed Matrix (F3)  Mart (F10) (LRR U)  Depleted Dark Surface (F6)  Depleted Dark Surface (F11) (MLRA 151)  Loenty Gleyed Matrix (F3)  Mart (F10) (LRR U)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Loenty Gleyed Matrix (F3)  Depleted Dark Surface (F13) (LRR D, P, T)  Depleted Below Dark Surface (F13) (LRR D, P, T)  Depleted Below Dark Surface (F13) (LRR D, P, T)  Depleted Below Dark Surface (F13) (LRR D, P, T)  Depleted Matrix (S4)  Sandy Mucky Mineral (S1) (LRR D, S)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1)  Lam Muck (A10)  Depleted Chric (F17) (MLRA 151)  Depleted Dark Surface (F13) (LRR D, P, T)  Depleted Da
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Depleted Dark Surface (A11) Thick Dark Surface (A12) Depleted Delow Dark Surface (A12) Despleted Dark Surface (F13) (LRR D) Depleted Derive (F13) (URR D) Histosol (A1) Hydrogen Sulfide (A4) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Derive (A11) Thick Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (A13) Depleted Dark Surface (A13) Depleted Dark Surface (A14) Depleted Dark Surface (A15) Depleted Da
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Btratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Mari (F10) (LRR U) Depleted Deric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Bandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3)  Muck Presence (A8) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Depth (inches):  Type: Depth (inches): Depth (inche
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  5 cm Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Sandy Redox (S5)  Depleted Dark Surface (F10) (MLRA 150A)  Depleted Ochric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P, T)  Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  MLRA 153B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Oother (Explain in Remarks)  Iron-Manganese Masses (F12) (LRR O, P, T)  Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Redox Dark Surface (F6) S cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Delta Ochric (F17) (MLRA 150A, 150B) Piedmont Floodplain Soils (F9) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed): Type: Depth (Inches):  TNR Below 12 Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Umbric Surface (F13) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A15) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S5) Dark Surface (S7) LTRR P, T, U) Delta Ochric (F18) (MLRA 150A, Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Type: Depth (Inches):  Thype: Depth (Inches): D
S cm Mucky Mineral (A7) (LRR P, T, U)
Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Marl (F10) (LRR U)  Depleted Ochric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P, T)  John (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problema
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A15) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Depth (inches):  Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Mas
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0, P, T) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches): Dept
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic.  Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.  Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)  Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed):  Type:
Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Setrictive Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Delta Ochric (F17) (MLRA 151)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Hydric Soil Present? Yes  No  No  No  No  No  No  No  No  No  N
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Depth Solid Present?  No  Hydric Soil Present?  No  No  No  No  No  No  No  No  No  N
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  estrictive Layer (if observed): Type: Depth (inches):  Depth (inches):  Depth (below 12' deve to logs below  Type: Depth (below 12' deve to logs below)  Type: Depth (below 12' deve to logs below)
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Instrictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Depth below 12' deve to logs below
Dark Surface (S7) (LRR P, S, T, U)  instrictive Layer (if observed):  Type:  Depth (inches):  Depth (inches):  Depth below 12" deve to logs below
Strictive Layer (if observed):  Type: Depth (inches):  marks:  CNR below 12" deve to logs below
Depth (inches): Hydric Soil Present? Yes No emarks:  CNR below 12" deve to logs below
Depth (inches): Hydric Soil Present? Yes No No No NR below 12" deve to logo below
ONR below 12" dere to logs below
ONR below 12" dere to logs below
surface from old clearing practices
Surface Troiri ord Clearing Francisco



Wetland data point wnrb102e\_w facing northwest.



Wetland data point wnrb102e\_w facing southeast.

Project/Site: Atlantic Coast Pip	peline	City/C	County: Northampton		Sampling Date: 3/24/2015
Applicant/Owner: Dominion					Sampling Point: wnrb102_u
Investigator(s): TP, AS		Section	on, Township, Range: No		
Landform (hillslope, terrace, et					
Subregion (LRR of MLRA): Wehadk	ee loam 0 to 2 pero	ent slopes frequently floor	Long: rled	<b></b>	Datum: WGS 1984 Pation: None
Are climatic / hydrologic condit					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problems	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach si	te map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vagotation Drop	ont? You	No. V			
Hydrophytic Vegetation Pres Hydric Soil Present?		No	Is the Sampled Area		4
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum		check all that apply)		Surface Soil	
Surface Water (A1)		True Aquatic Plants (	<u> </u>		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Par	
Saturation (A3)		Oxidized Rhizospher		Moss Trim Li	nes (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Buri	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		tressed Plants (D1)
Iron Deposits (B5)	vial lasa van (DZ)				Position (D2)
Inundation Visible on Ae				Shallow Aqui	
Water-Stained Leaves (B Aquatic Fauna (B13)	59)			FAC-Neutral	aphic Relief (D4) Test (D5)
Field Observations:					1001 (20)
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):		lydrology Presen	nt? Yes No
(includes capillary fringe)  Describe Recorded Data (str					
No hydrology present.					
Remarks:					

Sampling Point: wnrb102\_u

•	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status -	Number of Dominant Species
1. Quercus nigra	15	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Quercus falcata	10	Yes	FACU	Total Number of Densirent
3. Liquidambar styraciflua	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4 Quercus alba	10	Yes	FACU	Species / terese / till etitata.
5		-		Percent of Dominant Species That Are ORL FACW or FAC: 42.85714285 (A/R)
				That Are OBL, FACW, or FAC: 42.85/14285 (A/B)
6				Prevalence Index worksheet:
7	45			Total % Cover of: Multiply by:
22.5		= Total Cover	9	OBL species x 1 = 0
50% of total cover: 22.5	20% of	total cover:		
Sapling/Shrub Stratum (Plot size:)				FACVV species X Z =
1. Ilex opaca	10	Yes	FACU	FAC species X3 =
2. Vaccinium stamineum	5	Yes	FACU	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:65
5				2.52
				Prevalence Index = B/A =3.53
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
7.5		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation¹ (Explain)
1				Problematic Hydrophytic Vegetation (Explain)
2				4
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		<u> </u>		m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	0	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of	total cover:	0	Weeds vine All weeds vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1. Vitis rotundifolia	5	Yes	FAC	noight.
2		· · · · · · · · · · · · · · · · · · ·		
3				
4				Hydrophytic
5				Vegetation Present? Yes No
2.5		= Total Cover	1	rresent: res No
50% of total cover: 2.5		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features	<del></del>		
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	c <sup>2</sup> Texture	Remark	ks
0-4	10 YR 3/2	100		SL		
4-14	10 YR 4/4	100		SL		
		<del></del>				
					_	
	-					
				<u> </u>		
		<del></del>				
					_	
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Mati	
ydric Soil	Indicators:			Inc	dicators for Problematic	Hydric Soils <sup>3</sup> :
Histosol	l (A1)		Dark Surface (S7)		2 cm Muck (A10) (MLR	A 147)
Histic E	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	. 147, 148)	Coast Prairie Redox (A1	16)
Black H	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 1	48)	(MLRA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain So	oils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surfa	ace (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remai	rks)
Thick D	ark Surface (A12)		Redox Depressions (F8)			
	Mucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR	N,		
	A 147, 148)	,	MLRA 136)	•		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	<b>2)</b> 3	Indicators of hydrophytic	vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF		wetland hydrology must b	
	d Matrix (S6)		Red Parent Material (F21) (MLRA 12)		unless disturbed or proble	
	Layer (if observed):		<u> </u>			
Type:		•				
	1 \		<del>_</del>			🗸
Depth (in	ches):		_	Hydric S	Soil Present? Yes	No
Remarks:						



Photo 1 Upland data point wnrb102\_u facing north



Photo 2 Upland data point wnrb102\_u facing east

Project/Site: Atlantic Coast Pipeline	City/C	county: Northampton	;	Sampling Date: 3/24/2015
Applicant/Owner: Dominion			State: NC	_ Sampling Point: wnrb102f_w
	Section			
Landform (hillslope, terrace, etc.): drainagev				Slope (%): 2
Subregion (LRR or MLRA): P	Lat: 36.53481498	Long: -77.3	3566785	Datum: WGS 1984
Soil Map Unit Name: Wehadkee loam, 0 to 2	2 percent slopes, frequently floor	ded	NWI classifica	tion: PFO/SS1A
Are climatic / hydrologic conditions on the sit	te typical for this time of year? Y	res No (I	lf no, explain in Re	marks.)
Are Vegetation, Soil, or Hydr	ology significantly distur	bed? Are "Normal	Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydr				
SUMMARY OF FINDINGS – Attac				
Hydrophytic Vegetation Present? Y	∕es _ ✓ No			
Hydric Soil Present?	/es No	Is the Sampled Area		No
	/es ✓ No	within a Wetland?	Yes	_ NO
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface Soil C	
Surface Water (A1)	True Aquatic Plants (			etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Ode		✓ Drainage Patte	
Saturation (A3)		es on Living Roots (C3)	-	
Water Marks (B1)	Presence of Reduced	d Iron (C4)	Dry-Season W	/ater Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burro	ws (C8)
Drift Deposits (B3)	Thin Muck Surface (C	27)	Saturation Vis	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)	Stunted or Str	essed Plants (D1)
Iron Deposits (B5)			Geomorphic P	
Inundation Visible on Aerial Imagery (E	37)		Shallow Aquita	
Water-Stained Leaves (B9)			<del></del>	hic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral T	est (D5)
Field Observations:	<b></b>			
	No Depth (inches):	10		
	No Depth (inches):	0		- v •/ ··
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland H	ydrology Present	? Yes <u> </u>
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pre	vious inspections), if avail	lable:	
Remarks:				

Sampling	Point: wnrb102f_	W

•	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Betula nigra	15	Yes	FACW	Total Number of Deminent
3. Quercus pagoda	10	No	FACW	Total Number of Dominant Species Across All Strata:  4 (B)
4 Liquidambar styraciflua	10	No	FAC	(B)
··· <del>·</del>	-			Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	55			Total % Cover of: Multiply by:
27.5		= Total Cove	r 11	OBL species 0 x 1 = 0
50% of total cover: 27.5	20% of	total cover:_		45 00
Sapling/Shrub Stratum (Plot size:)				FACW species X Z = 125
1. Acer rubrum	15	Yes	FAC	rac species x s =
2				FACU species x 4 =
3				UPL species $0 \times 5 = 0$
4				Column Totals:90 (A)225 (B)
5				
				Prevalence Index = B/A = 2.5
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	45			3 - Prevalence Index is ≤3.0 <sup>1</sup>
7.5		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				• • • • • • • • • • • • • • • • • • • •
1. Arundinaria gigantea	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				¹Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
F				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	20	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:10	20% of	total cover:	4	Was deades Allows decises and the O.O. fi
Woody Vine Stratum (Plot size: 30				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3				
4				Hydrophytic
5				Vegetation Present?  Yes No
0		= Total Cove	^	Present? Yes No
50% of total cover:0	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wnrb102f\_w

	cription: (Describe t	o the de				or confirm	the absence	of indicators.)
Depth	Matrix	%	Color (moist)	K Feature	S Tuno 1	Loc <sup>2</sup>	Touturo	Domorko
(inches) 0-12	Color (moist) 10 YR 3/2	96	10 YR 4/6	<u>%</u> 4	Type <sup>1</sup> C	PL	Texture SCL	Remarks
					· <del></del>			
<sup>1</sup> Type: C=C	concentration, D=Deple	etion, RM	I=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				·-, `	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		· -/		<u> </u>	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		✓ Redox Dark S	. ,	<del>-</del> 6)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	( ,	Redox Depre					(=
	Mucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangane			LRR N.		
	A 147, 148)	,	MLRA 136		, (	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	6. 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):			ratoriai (i	, <b>(</b>	,, , <u>_</u> ,, , ,,	, <u></u>	
Type:	,							
	iches):						Hydric Soil	Present? Yes No
							Hydric 30ii	Fresent: res NO
Remarks:								



Photo 1
Wetland data point wnrb102f\_w facing north



Photo 2
Wetland data point wnrb102f\_w facing west

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

Applicant/Owner: Dominion		State: NC Sampling Point: Whiteler
Subregion (LRR or MLRA): LRR P  Soil Map Unit Name: Webudkee Do  Are climatic / hydrologic conditions on the site typical  Are Vegetation, Soil, or Hydrology	Local relief (concave, co  Lat: 36.53360  Local relief (concave, concave, c	onvex, none): Slope (%): 57
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Yes Yes Yes Yes		Area
High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	ck all that apply) quatic Fauna (B13) larl Deposits (B15) (LRR U) ydrogen Sulfide Odor (C1) xidized Rhizospheres along Living Roots resence of Reduced Iron (C4) ecent Iron Reduction in Tilled Soils (C6) hin Muck Surface (C7) ther (Explain in Remarks)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Pattems (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		

Tree Stratum (Plot size: 30ft x 30ft)  1. None	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: > 67 (A/B)
6.		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
B		OBL species x1 =
	O = Total Cover	FACW species x 2 =
	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)		FACU species x4 =
1. none		UPL species x5 =
2.		■ SEA AND SERVICE AND SERVICE AND AND SERVICE AND AND ADDRESS OF A SERVICE AND ADDRESS OF ADDRESS OF A SERVICE AND ADD
3.		Column Totals: (A) (B)
4,		Prevalence Index = B/A =
5.		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0¹
	O = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover-	20% of total cover:	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30ft x 30ft)		It is a state of the state of t
1. Carex lovida	20 Y OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Typha latifolia	15 Y OBL	Definitions of Four Vegetation Strata:
3. Junius effusus	TO N OBL	
5 5 6 1 SOUL Fallium	TO N FALL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eupatorium capillifolium	ZD Y WIK	more in diameter at breast height (DBH), regardless of height.
5. Carex sp	All the control of th	
6.	Company Commission Commission	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.		
B.	20 (20 (20 (20 (20 (20 (20 (20 (20 (20 (	Herb – All herbaceous (non-woody) plants, regardless
9.	A DESCRIPTION OF THE PROPERTY	of size, and woody plants less than 3.28 ft tall.
10	Market Company and Company	Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12.		
	75 = Total Cover	Distriction of the control of the co
50% of total cover: 37 L	5 20% of total cover: 15	
Woody Vine Stratum (Plot size: 30ff x 30ff)		
1. none		
2.		
3.		
4.		
5.		
B. The complication is an abstract to the deposition of the complete and t	O = Total Cover	Hydrophytic Vegetation
	Total Cover	Present? Yes No
50% of total cover:		
Remarks: (If observed, list morphological adaptations below	ow).	
(MINESTER) - 이 2 전 2 전 2 전 1 전 2 전 2 전 2 전 2 전 2 전 2 전		

Mark   Mark   Mark   Redox Faitures   Remarks   Redox Faitures   Remarks
Pet: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Policy C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Poly C=Concentration, D=Depletion, RM=Reduced Matrix, RS, T, U)  Individual C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, RM=Reduced Veric, G=N, Unit C=Concentration, D=Depletion, D=Deple
Color (moist) 95 Color (moist) 95 Color (moist) 95 Type! Loc* Texture Remarks    Color (moist) 95 Color (moist) 95 Type! Loc* M SCL
rps: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosel (A1)  Histosel (A2)  Histosel (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Corganic Bodies (A6)  Lucamy Mucky Mineral (A7) (LRR P, T, U)  Depleted Matrix (F3)  Lom Muck (A9) (LRR P, T, U)  Lom Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A1)  Tom Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A1)  Tom Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A1)  Coast Prairie Redox (A15)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Lamy Muck (A10)  Depleted Derive (F11) (MLRA 151)  Depleted Below Dark Surface (F12)  Lom-Mark (F10) (LRR U, Depleted Derive (F13) (LRR O, P, T)  Depleted Matrix (S4)  Sandy Mucky Mineral (S1)  Lamy Mucky (LRR P, T, U)  Depleted Dark Surface (F13)  Lamy Mucky Mineral (S1)  Lamy Mucky (LRR P, T, U)  Depleted Matrix (S4)  Sandy Redox (S5)  Lamy Mineral (Mineral Matrix (S4)  Lamy Mucky Mineral (Mineral Mineral (S1)  Lamy Mucky Mineral (Mineral Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)  Lamy Mucky Mineral (S1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Depleted Dark Surface (A11) Thick Dark Surface (A12) Depleted Delow Dark Surface (A12) Despleted Dark Surface (F13) (LRR D) Depleted Derive (F13) (URR D) Histosol (A1) Hydrogen Sulfide (A4) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Derive (A11) Thick Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (A13) Depleted Dark Surface (A13) Depleted Dark Surface (A14) Depleted Dark Surface (A15) Depleted Da
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Btratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Mari (F10) (LRR U) Depleted Deric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Bandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3)  Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Deark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR P, S) Depleted Deark Surface (F13) (LRR P, T, U) Depleted Deark Surface (A15) Depleted Deark Surface (A15) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR D, P, T) Depleted Ochric (F17) (MLRA 151) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR D, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches): Type: Depth (
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  5 cm Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Sandy Redox (S5)  Depleted Dark Surface (F10) (MLRA 150A)  Depleted Ochric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P, T)  Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F20)  MLRA 153B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Oother (Explain in Remarks)  Iron-Manganese Masses (F12) (LRR O, P, T)  Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 150A)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Stripted Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Coest Prairie Redox (A11) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Depleted Ochric (F17) (MLRA 151) Depleted Ochric (F17) (MLRA 151) Sandy Redox (S5) Depleted Ochric (F17) (MLRA 150A, 150B) Sandy Redox (S5) Depleted Ochric (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed): Type: Depth (inches):  Thick Dark Surface (A12) Depleted Ochric (F17) (MLRA 151) Depleted Ochric (F17) (MLRA 151) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A15) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S5) Dark Surface (S7) LTRR P, T, U) Delta Ochric (F18) (MLRA 150A, Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Type: Depth (Inches):  Thype: Depth (Inches): Depth (In
S cm Mucky Mineral (A7) (LRR P, T, U)
Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Marl (F10) (LRR U)  Depleted Ochric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P, T)  John Coast Prairie Redox (A16) (MLRA 150A)  Umbric Surface (F13) (LRR P, T, U)  Umbric Surface (F13) (LRR P, T, U)  Delta Ochric (F17) (MLRA 151)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Depth
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A15) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Depth (inches):  Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Mas
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0, P, T) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches):  Type: Depth (inches): Dept
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic.  Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.  Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)  Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed):  Type:
Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Setrictive Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Delta Ochric (F17) (MLRA 151)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Hydric Soil Present? Yes  No  No  No  No  No  No  No  No  No  N
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Depth Solid Present?  No  Hydric Soil Present?  No  No  No  No  No  No  No  No  No  N
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  estrictive Layer (if observed): Type: Depth (inches):  Depth (inches):  Depth (below 12' deve to logs below  Type: Depth (below 12') deve to logs below
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Instrictive Layer (if observed): Type: Depth (inches):  Type: Depth (inches):  Depth below 12' deve to logo below
Dark Surface (S7) (LRR P, S, T, U)  strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No  Marks:  NR below 12" deve to logs below
Strictive Layer (if observed):  Type: Depth (inches):  marks:  CNR below 12" deve to logs below
Depth (inches): Hydric Soil Present? Yes No emarks:  CNR below 12" deve to logs below
Depth (inches): Hydric Soil Present? Yes No No No NR below 12" deve to logo below
ONR below 12" dere to logs below
CNR below 12" dere to logs below
#####################################
#####################################
surface from old clearing practices
Surface from ord clearing fractions

### Environmental Field Surveys Wetland Photo Page



Wetland data point wnrb102e\_w facing northwest.



Wetland data point wnrb102e\_w facing southeast.

Project/Site: Atlantic Coast Pip	peline	City/C	County: Northampton		Sampling Date: 3/24/2015
Applicant/Owner: Dominion					Sampling Point: wnrb102_u
Investigator(s): TP, AS		Section	on, Township, Range: No		
Landform (hillslope, terrace, et					
Subregion (LRR of MLRA): Wehadk	ee loam 0 to 2 pero	ent slopes frequently floor	Long: rled	<b></b>	Datum: WGS 1984 Pation: None
Are climatic / hydrologic condit					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problems	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach si	te map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vagotation Drop	ont? You	No. V			
Hydrophytic Vegetation Pres Hydric Soil Present?		No	Is the Sampled Area		4
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum		check all that apply)		Surface Soil	
Surface Water (A1)		True Aquatic Plants (	<u> </u>		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Par	
Saturation (A3)		Oxidized Rhizospher		Moss Trim Li	nes (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Buri	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)		tressed Plants (D1)
Iron Deposits (B5)	vial lasa van (DZ)				Position (D2)
Inundation Visible on Ae				Shallow Aqui	
Water-Stained Leaves (B Aquatic Fauna (B13)	59)			FAC-Neutral	aphic Relief (D4) Test (D5)
Field Observations:					1001 (20)
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):		lydrology Presen	nt? Yes No
(includes capillary fringe)  Describe Recorded Data (str					
No hydrology present.					
Remarks:					

Sampling	Point: wnrb102_	u
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•	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status -	Number of Dominant Species
1. Quercus nigra	15	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Quercus falcata	10	Yes	FACU	Total Number of Densirent
3. Liquidambar styraciflua	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4 Quercus alba	10	Yes	FACU	Species / terese / till etitata.
5				Percent of Dominant Species That Are ORL FACW or FAC: 42.85714285 (A/R)
				That Are OBL, FACW, or FAC: 42.85/14285 (A/B)
6				Prevalence Index worksheet:
7	45			Total % Cover of: Multiply by:
22.5		= Total Cover	9	OBL species x 1 = 0
50% of total cover: 22.5	20% of	total cover:		
Sapling/Shrub Stratum (Plot size:)				FACVV species X Z =
1. Ilex opaca	10	Yes	FACU	FAC species X3 =
2. Vaccinium stamineum	5	Yes	FACU	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:65
5				2.52
				Prevalence Index = B/A =3.53
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
7.5		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation¹ (Explain)
1				Problematic Hydrophytic Vegetation (Explain)
2				4
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5		-		Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		<u> </u>		m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	0	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of	total cover:	0	Weeds vine All weeds vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1. Vitis rotundifolia	5	Yes	FAC	noight.
2		· · · · · · · · · · · · · · · · · · ·		
3				
4				Hydrophytic
5				Vegetation Present? Yes No
2.5		= Total Cover	1	rresent: res No
50% of total cover: 2.5		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features	<del></del>		
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	c <sup>2</sup> Texture	Remark	ks
0-4	10 YR 3/2	100		SL		
4-14	10 YR 4/4	100		SL		
		<del></del>				
					_	
	-					
				<u> </u>		
					_	
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Mati	
ydric Soil	Indicators:			Inc	dicators for Problematic	Hydric Soils <sup>3</sup> :
Histosol	l (A1)		Dark Surface (S7)		2 cm Muck (A10) (MLR	A 147)
Histic E	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	. 147, 148)	Coast Prairie Redox (A1	16)
Black H	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 1	48)	(MLRA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain So	oils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surfa	ace (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Remai	rks)
Thick D	ark Surface (A12)		Redox Depressions (F8)			
	Mucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR	N,		
	A 147, 148)	,	MLRA 136)	•		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	<b>2)</b> 3	Indicators of hydrophytic	vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF		wetland hydrology must b	
	d Matrix (S6)		Red Parent Material (F21) (MLRA 12)		unless disturbed or proble	
	Layer (if observed):		<u> </u>			
Type:		•				
	1 \		<del>_</del>			🗸
Depth (in	ches):		_	Hydric S	Soil Present? Yes	No
Remarks:						



Photo 1 Upland data point wnrb102\_u facing north



Photo 2 Upland data point wnrb102\_u facing east

Project/Site: Atlantic Coast Pipe	eline	City/C	County: Northampton		Sampling Date: 3/24/2015
Applicant/Owner: Dominion				State: NC	Sampling Point: wnrb101f_w
Investigator(s): TP, AS		Section			
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): P		Lat: 36.53675902	Lona: -77.3	33040521	Datum: WGS 1984
Soil Map Unit Name: Tomotley	fine sandy loam, 0	to 2 percent slopes, rarely	flooded	NWI classific	ation: PSS1CH
Are climatic / hydrologic condition	ons on the site typic	al for this time of year? Y	′es No	(If no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No
Are Vegetation, Soil					
					, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	<b>∨</b> No			
Hydric Soil Present?	Yes	No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		✓ No	within a Wetland?	res	NO
Remarks:		<u> </u>			
HYDROLOGY					
Wetland Hydrology Indicator	rs:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o	of one is required; c	heck all that apply)		Surface Soil	
✓ Surface Water (A1)		True Aquatic Plants (	B14)		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Par	
✓ Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Buri	rows (C8)
Drift Deposits (B3)		Thin Muck Surface (C	C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	
Inundation Visible on Aeri				Shallow Aqui	
Water-Stained Leaves (BS	∌)				phic Relief (D4)
Aquatic Fauna (B13)			<b>T</b>	FAC-Neutral	Test (D5)
Field Observations:	Van V Na	Donth (inch on)	3		
Surface Water Present? Water Table Present?		Depth (inches): Depth (inches):	0		
			0 Westernal I	ludual a sur Dua a a su	42 Van V Na
Saturation Present? (includes capillary fringe)	res _ no _	Depth (inches):	wetiand F	lydrology Presen	t? Yes V No
Describe Recorded Data (stream	am gauge, monitori	ng well, aerial photos, pre	vious inspections), if ava	ilable:	
December					
Remarks:					

Sampling Point: wnrb101f
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•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)			Status	Number of Dominant Species	
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC:5 (A	١)
2. Liquidambar styraciflua	15	Yes	FAC		
3. Pinus taeda	10	Yes	FAC	Total Number of Dominant Species Across All Strata:  5 (B	2)
				Species Across All Strata (B	)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:100 (A	/B)
6					
7				Prevalence Index worksheet:	
	45	= Total Cover		Total % Cover of: Multiply by:	
50% of total cover: 22.5		total cover:	9	OBL species0 x 1 =0	
Sapling/Shrub Stratum (Plot size: 15 )				FACW species10	
1 Acer rubrum	10	Yes	FAC	FAC species 55 x 3 = 165	
1. 7001 14014111		103	170	0	
2				FACU species	
3				UPL species X5 = 105	
4				Column Totals: (A)	(B)
5				0.04	
				Prevalence Index = B/A =2.84	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	10	= Total Cover			
50% of total cover: 5		total cover:	2	4 - Morphological Adaptations <sup>1</sup> (Provide support	ting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)	
1 Arundinaria gigantea	10	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. Aranamana gigantea		165	FACVV		
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	.+
3				be present, unless disturbed or problematic.	
4.				Definitions of Four Vegetation Strata:	
5				Definitions of Four Vegetation Strata.	
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	or (
6				more in diameter at breast height (DBH), regardless	of
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, les	20
9				than 3 in. DBH and greater than or equal to 3.28 ft (	
10.				m) tall.	
11.					
	10	Tatal Cause		<b>Herb</b> – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	ess
50% of total cover: 5		= Total Cover	_	of size, and woody plants less than 3.20 it tall.	
0070 01 (0(4) 00701.	20% 01	total cover:		Woody vine - All woody vines greater than 3.28 ft in	n
Woody Vine Stratum (Plot size: 30 )				height.	
1					
2					
3					
4					
F			_	Hydrophytic	
5				Vegetation Present? Yes No	
		= Total Cover		11636III: 163 140	
50% of total cover:0	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Depth	Matrix			<u> Features</u>	S1	. 2		
inches) 0-12	Color (moist) 10 YR 5/2	<u>%</u> 95	Color (moist) 10 YR 5/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SCL	Remarks
0-12	10 11 5/2	95	10 1K 5/0					
	-							-
			-					
	oncontration D_Dan	lotion DM			Sand Cr		<sup>2</sup> Location: D	L - Doro Lining M-Matrix
	oncentration, b=bep Indicators:	ietion, Rivi	=Reduced Matrix, MS	=iviaskeu	Sand Gr	airis.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel		co (S8) <b>(N</b>	II D A 1/17		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su		. , .		(	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			47, 140)	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		_,		<u> </u>	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark S		6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre					,
_ Sandy N	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Masse	es (F12) (	LRR N,		
	A 147, 148)		MLRA 136					
_ Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b> I	MLRA 13	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
_ Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,
_ Stripped	l Matrix (S6)		Red Parent M	1aterial (F2	21) <b>(MLR</b>	A 127, 147	' <b>)</b> un	less disturbed or problematic.
estrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
emarks:								



Photo 1
Wetland data point wnrb101f\_w facing west



Photo 2
Wetland data point wnrb101f\_w facing north

Project/Site: Atlantic Coast Pi	peline	City/C	ounty: Northampton		Sampling Date: 3/24/2015
Applicant/Owner: Dominion		,	,		Sampling Point: wnrb101_u
Investigator(s): TP, AS		Section	on, Township, Range: No		
Landform (hillslope, terrace, et					
Subragion (LDB or MLDA): P		1 at: 36.53666063	Long: -77.3	3028398	Clope (70)
Subregion (LRR of MLRA):	v fine sandy loam 0	to 2 percent slopes rarely	flooded	A.D.A.(I. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Datum: WGS 1984 ation: None
Are climatic / hydrologic condi					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problems	atic? (If needed, ex	xplain any answer	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach sit	te map showing sam	pling point location	ns, transects	, important features, etc.
Lludrophytic Variation Drea	ont? Voc	<b>√</b> No			
Hydrophytic Vegetation Pres Hydric Soil Present?		NoNo	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No <b>✓</b>	within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicat	ors:		,	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum		check all that apply)		Surface Soil (	
Surface Water (A1)		True Aquatic Plants (			jetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)		Oxidized Rhizosphere		Moss Trim Li	
Water Marks (B1)		Presence of Reduced		Dry-Season \	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burr	ows (C8)
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)				Geomorphic	
Inundation Visible on Ae				Shallow Aqui	
Water-Stained Leaves (I	39)				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:		<b>V</b> 5 4 6 1 3			
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):			t2 Vos No V
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland H	ydrology Presen	t? Yes No
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if avai	lable:	
No hydrology present.					
Remarks:					

Sampling I	Point: wnrb101_	_u
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•	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover 20	Species?	Status FAC	Number of Dominant Species
1. Pinus taeda		Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				
5				Percent of Dominant Species That Are ORL FACW or FAC:  60 (A/R)
0				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	20			Total % Cover of: Multiply by:
<b></b> 10		= Total Cove	r 4	OBL species0 x 1 =0
50% of total cover: 10	20% of	total cover:_		
Sapling/Shrub Stratum (Plot size:)				FACW species $\frac{0}{40}$ $\times 2 = \frac{0}{120}$
1. Quercus alba	10	Yes	FACU	FAC species x 3 =
2. Ilex opaca	10	Yes	FACU	FACU species x 4 =
3. Acer rubrum	10	Yes	FAC	UPL species x 5 =
4. Liquidambar styraciflua	5	No	FAC	Column Totals:60
5				2.22
		·		Prevalence Index = B/A =3.33
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
47.5		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:17.5	20% of	total cover:	7	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation¹ (Explain)
1				Problematic Hydrophytic Vegetation (Explain)
2				4
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5	-	·		Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	0	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of	total cover:	0	
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1 Vitis rotundifolia	5	Yes	FAC	noight.
2.	-	·		
3				
4				Hydrophytic
5				Vegetation
		= Total Cover	r	Present? Yes No No
50% of total cover: 2.5	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix	0/		lox Features		Loc <sup>2</sup>	T	Demonto
inches) 0-4	Color (moist) 10 YR 4/1	<u>%</u> 98	Color (moist) 10YR 4/6		Type <sup>1</sup> C	M Loc	<u>Texture</u> SL	Remarks
4-12	10 YR 6/3	90	10YR 6/6	10	C	M	SCL	
		- —						
	· -							
	· <del></del>	- ——						-
ype: C=C	Concentration, D=Dep	letion, RM	=Reduced Matrix, N	//S=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
dric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
_ Histoso	l (A1)		Dark Surface	ce (S7)			2	cm Muck (A10) (MLRA 147)
_ Histic E	pipedon (A2)		Polyvalue E	Below Surfac	e (S8) <b>(M</b>	ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black H	listic (A3)		Thin Dark S	Surface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
_ Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix (F	2)		Pi	iedmont Floodplain Soils (F19)
Stratifie	ed Layers (A5)		Depleted M	atrix (F3)				(MLRA 136, 147)
_ 2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F6	5)		V	ery Shallow Dark Surface (TF12)
_ Deplete	ed Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)		0	ther (Explain in Remarks)
_ Thick D	ark Surface (A12)		Redox Dep	ressions (F8	)			
_ Sandy I	Mucky Mineral (S1) (I	LRR N,	Iron-Manga	nese Masse	s (F12) <b>(</b> I	_RR N,		
MLR	A 147, 148)		MLRA 1	36)				
_ Sandy	Gleyed Matrix (S4)		Umbric Sur	face (F13) <b>(N</b>	ILRA 13	6, 122)	<sup>3</sup> Indi	icators of hydrophytic vegetation and
_ Sandy	Redox (S5)		Piedmont F	loodplain So	ils (F19)	(MLRA 14	<b>8)</b> we	tland hydrology must be present,
_ Strippe	d Matrix (S6)		Red Parent	Material (F2	1) <b>(MLR</b>	A 127, 147	') unl	less disturbed or problematic.
estrictive	Layer (if observed):							•
Type:								
Depth (ir	nches):						Hydric Soil	Present? Yes No
emarks:	,							
Jiriaino.								



Photo 1 Upland data point wnrb101\_u facing east



Photo 2
Upland data point wnrb101\_u facing south

Project/Site: Atlantic Coast Pipeline		City/County: Northampton		Sampling Date: 3/24/2015
Applicant/Owner: Dominion			_ State: NC	_ Sampling Point: wnrb100f_w
		Section, Township, Range: No.		
Landform (hillslope, terrace, etc.): drainage				
Subregion (LRR or MLRA): P				Datum: WGS 1984
Soil Map Unit Name: Roanoke silt loam, 0	to 2 percent slopes, occasio	onally flooded	NWI classifica	ntion: PFO1A
Are climatic / hydrologic conditions on the s	site typical for this time of ye	ar? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hyd	drology significantly	disturbed? Are "Norma	l Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hyd				
SUMMARY OF FINDINGS – Atta				
Hydrophytic Vegetation Present?	Yes ✔ No			
Hydric Soil Present?	Yes No	Is the Sampled Area	V	No
	Yes No	within a Wetland?	Yes	_ NO
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is req	uired; check all that apply)		Surface Soil C	Cracks (B6)
Surface Water (A1)	True Aquatic P	ants (B14)		etated Concave Surface (B8)
High Water Table (A2)	✓ Drainage Patt			
✓ Saturation (A3)	Moss Trim Lir	nes (B16)		
Water Marks (B1)	educed Iron (C4)	Dry-Season V	Vater Table (C2)	
Sediment Deposits (B2)	duction in Tilled Soils (C6)	C6) Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surf		Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain	in Remarks)		ressed Plants (D1)
Iron Deposits (B5)	(= -)		Geomorphic F	, ,
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquit	
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? Yes	No. V Donth (inches)			
	_ No Depth (inches)			
	No Depth (inches)			
Saturation Present? Yes (includes capillary fringe)	No Depth (inches)	: wetland i	Hydrology Present	? Yes <u> </u>
Describe Recorded Data (stream gauge,	monitoring well, aerial photo	os, previous inspections), if ava	ailable:	
Devente				
Remarks:				

Sampling	Point: wnrb100f_	w
Samonina	F()	

•	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)  1. Acer rubrum	% Cover 20	Species?Yes	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:8 (A)
2 Liquidambar styraciflua	15	Yes	FAC	That Are OBL, FACW, or FAC: (A)
3. Betula nigra	10	Yes	FACW	Total Number of Dominant
•				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 22.5	20% of	total cover:	9	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Liquidambar styraciflua	15	Yes	FAC	FAC species65
2. Acer rubrum	10	Yes	FAC	FACU species0 x 4 =0
3				UPL species0 x 5 =0
4				Column Totals: 100 (A) 260 (B)
				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 12.5	20% of	total cover:	5	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				. ,
1. Arundinaria gigantea	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				¹Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5.				Definitions of Four Vegetation Strata:
	-			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	20	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10	20% of	total cover:	4	Mandy vine All woods vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1. Smilax laurifolia	5	Yes	OBL	- Norgina
2 Smilax rotundifolia	5	Yes	FAC	
3.				
		-		
4	-			Hydrophytic
5	10			Vegetation Present? Yes No
50% of total cover: 5		= Total Cover	2	1103CH1: 103 NO
0070 01 (0141 00701:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	<u>Matrix</u>			<u> Features</u>	S1	. 2		
inches) 0-12	Color (moist) 10 YR 3/2	<u>%</u> 96	Color (moist) 10 YR 4/6	<u>%</u> 4	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SCL	Remarks
0-12	10 1K 3/2	90	10 1 K 4/0					
	-	· ——			-			
					-			
					-			
	-							
	noontration D_Don	lotion DM	— Poducod Motrix, MS		Sand Cr	oine	<sup>2</sup> Location: D	DI - Doro Lining M-Motriy
	Indicators:	ietion, Riv	=Reduced Matrix, MS	=iviaskeu	Sand Gr	ams.	Location: P	L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
			Dark Surface	(87)				2 cm Muck (A10) (MLRA 147)
Histosol	pipedon (A2)		Dark Surface Polyvalue Be		co (SR) <b>(N</b>	NI DA 1/17	· · · · · · · · · · · · · · · · · · ·	Coast Prairie Redox (A16)
	stic (A3)		Tolyvalde Be				(	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			147, 140)	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		<i>'' - '</i>		<u> </u>	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		✓ Redox Dark S	` '	6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre		. ,			,
	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangane			LRR N,		
	A 147, 148)		MLRA 136					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Sandy F	tedox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	etland hydrology must be present,
_ Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	) un	nless disturbed or problematic.
estrictive	_ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil	l Present? Yes No
emarks:								



Photo 1
Wetland data point wnrb100f\_w facing west



Photo 2
Wetland data point wnrb100f\_w facing north

Project/Site: Atlantic Coast Pi	peline	City/C	ounty: Northampton		Sampling Date: 3/24/2015		
Applicant/Owner: Dominion		,			Sampling Point: wnrb100_u		
Investigator(s): TP, AS		Section	on, Township, Range: No				
Landform (hillslope, terrace, et							
Subragion (LDB or MLDA): P		1 at: 36.5375469	Long: -77.3	32707204	Clope (76):		
Ocil Mara Hair Nama Altavista	fine sandy loam 0	to 3 percent slopes rarely	flooded	NA/I -1 'C' -	Datum: WGS 1984 ation: None		
Are climatic / hydrologic condi							
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil	, or Hydrology	naturally problems	atic? (If needed, e	explain any answei	rs in Remarks.)		
SUMMARY OF FINDIN	GS – Attach sit	te map showing sam	pling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Pres	ont? Vos	✓ No					
Hydric Soil Present?		No	Is the Sampled Area	·			
Wetland Hydrology Present?	Yes	No✓	within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY				Occasional allega	to a facility of the angle of		
Wetland Hydrology Indicat		-1111 (111-1)			tors (minimum of two required)		
Primary Indicators (minimum	of one is required; (		D4.4)	Surface Soil Cracks (B6)			
Surface Water (A1)		<ul><li>True Aquatic Plants (</li><li>Hydrogen Sulfide Ode</li></ul>		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
<ul><li>High Water Table (A2)</li><li>Saturation (A3)</li></ul>		=					
Water Marks (B1)		es on Living Roots (C3) I Iron (C4)	) Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burr			
Drift Deposits (B3)		27)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Ren			tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aqui	tard (D3)		
Water-Stained Leaves (I	39)				phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?		Depth (inches):					
Water Table Present?		Depth (inches):			,		
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland H	lydrology Presen	t? Yes No		
Describe Recorded Data (str	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if ava	ilable:			
No hydrology present.							
Remarks:							

Sampling Point: wnrb100\_u

· ,		·	в .	
Tree Stratum (Plot size: 30 )	Absolute	Dominant Ir		Dominance Test worksheet:
Tree stratum (Flot size:			Status FACU	Number of Dominant Species
1. Liriodendron tulipifera	20	Yes	FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Liquidambar styraciflua	15	Yes	FAC	
3. Acer rubrum	10	Yes	FAC	Total Number of Dominant
3. Acci tubium				Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 66.6666666 (A/B)
				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
	45	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: <u>22.5</u>		total cover:	9	OBL species0 x 1 =0
15	20% 01	total cover		
Sapiing/Shrub Stratum (Piot size:)				FACW species $\begin{array}{c} 0 \\ 45 \\ 32 \\ 35 \\ \end{array}$
1. Acer rubrum	10	Yes	FAC	FAC species x 3 =
2. Liquidambar styraciflua	10	Yes	FAC	FACU species25
	5			
3. Ilex opaca		Yes	FACU	UPL species $\frac{0}{70}$ x 5 = $\frac{0}{235}$
4				Column Totals: (A) (B)
5		-		Prevalence Index = $B/A = 3.35$
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
	25	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ - (1-1-1 12-5			5	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 12.5	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				·
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Total Washington and offered as (7.0 cm)
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10	-	-		, ta
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	0	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:		
00	2070 01			Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1		-		
2.				
3				
4				Undranhutia
5				Hydrophytic Vegetation
0	_			Present? Yes No
		<ul><li>Total Cover</li></ul>		11636IR: 163 100
50% of total cover:0	20% of	total cover:_	<u> </u>	
Remarks: (Include photo numbers here or on a separate si	neet.)			

Depth	Matrix		Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	c <sup>2</sup> Textu	
0-5	10 YR 4/4	100		SL	
5-12	10 YR 4/3	100		SCL	
					<del></del> -
				<del></del>	
		letion, RM=Re	educed Matrix, MS=Masked Sand Grains.		n: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators:			I	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S7)	_	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA	147, 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S9) (MLRA 147, 1		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	•	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)	_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	<del>-</del>	Other (Explain in Remarks)
_	ark Surface (A12)	(* * * * * )	Redox Depressions (F8)	-	
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Manganese Masses (F12) (LRR	N	
	A 147, 148)	,	MLRA 136)	,	
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	2)	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 127		unless disturbed or problematic.
	Layer (if observed):		Ned Farent Waterial (F21) (WEICH 121	, 147)	unless disturbed of problematic.
	Layer (ii Observeu).				
Type:			_		.,
Depth (in	ches):		_	Hydric	Soil Present? Yes No
Remarks:					



Photo 1 Upland data point wnrb100f\_u facing north



Photo 2 Upland data point wnrb100f\_u facing east

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP City/County: Northam Ofon Sampling Date: Applicant/Owner: DOWNIN (DV) Investigator(s): ESI (RODER, TOYNOUT) Section, Township, Range: VIONE Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): くついとかと Slope (%): Lat: 36.54357 Long: -77.36738 Subregion (LRR or MLRA): LRR P Soil Map Unit Name: Tarboro sand, 0-51, Slopes NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **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 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) Injundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? \_\_ Depth (inches): Water Table Present? Saturation Present? Depth (inches): SUY+いこと Wetland Hydrology Present? Yes \_\_\_\_\_\_\_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION (	(Four Stra	ta) Hse	scientific	names (	of plants
A POPINCIONAL	(i Oui Olia	(a) - USE	SOICHRING	Hallies	ui piains.

Sampling Point: Wny 2015EW

2-0.300		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)		Species?		Number of Dominant Species
1. Acer rubrum	20		EAC	That Are OBL, FACW, or FAC: (A)
2. Ilex odaca	<u> </u>	У	FACI	
3. Taxodium distichum	15	V	OBL	Total Number of Dominant
				Species Across All Strata:(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7.				Prevalence Index worksheet:
1		•		Total % Cover of: Multiply by:
8	-			OBL species x 1 =
ر المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المنافق المن	-12	= Total Cov	rer _	
50% of total cover: 27	<u>5</u> 20% of	total cover	:_4_	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)			·	FAC species x 3 =
1. Acer rubrum	20	V	FAC.	FACU species x 4 =
		‡	1 3	UPL species x 5 =
2				Column Totals: (A) (B)
3.				Column Totals(A)(b)
4				Providence Index = R/A =
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6.				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	20	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10				Ti Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30ff x30ff)	2070 0	i lotal cover	.——	
	16.	s./	. O t	Indicators of hydric soil and wetland hydrology must
1. Juneus effusus	15	. <u> </u>	OBL.	be present, unless disturbed or problematic.
2. Arundinaria gigantea	15	<u> </u>	FACW	Definitions of Four Vegetation Strata:
3				· 1
§				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				_ ` '
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
, 2,	20	- T-1-1-0-		
,	Action 1	_ = Total Co	1	
50% of total cover:	<u> </u>	of total cove	r: <u> </u>	
Woody Vine Stratum (Plot size: 30ft x30ft)				
1. Smilax rotundifolia	10	У	FAC	
2.		_ <del></del>		
3				
4				
5.				Lindranhodia
		= Total Co		Hydrophytic Vegetation
		_	#00h	Present? Yes No
50% of total cover:	<u>&gt;</u> 20% ∙	of total cove	er:	100
Remarks: (If observed, list morphological adaptations be	elow).			The state of the s
1				

	ription: (Describe t	o the depth				or confirm	the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	s Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
6-6	10 YR 3/2	100					54	
6-20	2.57 5/1	97	104R4/6	3		PL	<u> </u>	
0 20	210 1 -11	<u> </u>	1015-10			- i i.e.		
								, <u>, , , , , , , , , , , , , , , , , , </u>
								West Administration of the Control o
			7000000					
Type: C=C	oncentration, D=Dep Indicators: (Applications)	letion, RM=F	Reduced Matrix, M	S=Maske	i Sand Gr	ains.		PL=Pore Lining, M=Matrix.
		abie to ali L			•	··		or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Polyvalue Be					ick (A9) (LRR O)
	stic (A3)		Thin Dark St					ick (A10) (LRR S) d Verlic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye			( ),		nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		(. =)			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P.	, T, U)	Redox Dark		F6)			A 153B)
	icky Mineral (A7) (LF		Depleted Da	rk Surfac	∍ (F7)			ent Material (TF2)
	esence (A8) (LRR U	)	Redox Depre		8)			allow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (I				U Other (E	Explain in Remarks)
= :	d Below Dark Surfac	e (A11)	Depleted Oc				_ 1	
	ark Surface (A12)	#1 D & 450 #1	Iron-Mangar					tors of hydrophytic vegetation and
	rairie Redox (A16) (N Jucky Mineral (S1) (I		T			, U)		and hydrology must be present,
	Bleyed Matrix (S4)	-KK (), (5)	Delta Ochrid			:0A 150E)		ss disturbed or problematic.
	Redox (S5)		Piedmont FI					
	Matrix (S6)						A 149A, 153C,	153D)
	rface (S7) (LRR P, S	S, T, U)	_	Ū	•	. , ,		•
Restrictive	Layer (if observed):	:				***		
Туре:								
Depth (in	ches):						Hydric Soil F	Present? Yes // No
Remarks:							1	***************************************

## Environmental Field Surveys Wetland Photo Page



Wetland data point wnrp015f\_w facing east.

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

Project/Site: ACP	//County: Nov thampton Sampling Date: 41915
Applicant/Owner: Dominion	State: NC Sampling Point: Wn DUISLA
Investigator(s): ESI (Roper, Turnbull) Sec	ction Township Pages: 1000
	cal relief (concave, convex, none): LONLAVE Slope (%): 2-5
Subregion (LRR or MLRA): LR LP Lat: 36,54	The same of the sa
Soil Map Unit Name: Tarboro sand, 0-5% slopes	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dist	turbed? 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?  Hydric Soil Present?  Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	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) (I	
☐ Saturation (A3) ☐ Hydrogen Sulfide Odo	or (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosphere	s along Living Roots (C3) 🔲 Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5) ☐ Other (Explain in Rem Inundation Visible on Aerial Imagery (B7)	
Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagricii iloss (Do) (LRR 1, 0)
Surface Water Present? Yes No Depth (inches): _	NA
Water Table Present? Yes No Depth (inches):	720
Saturation Present? Yes No Depth (inches): _	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections) if available:
2 Total of the state of the sta	provided inspections), if dvaliable.
Remarks:	
L	

0 0.	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3011 x 3011)		Species?		,
1. Quercus alba	15	\/	PACU	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2. Carpinus caroliniana	10_	<u> V</u>	PAC	Total Number of Dominant
3. Her rubrum	15		FAC	Species Across All Strata: (B)
4. Ilex opaca	in)	N.	FAC	
		N	開	Percent of Dominant Species That Are OBL FACW or FAC:
5. Pinos taeda			FIL	That Are OBL, FACW, or FAC:O O / a (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				
	<u></u>	= Total Co	ver	OBL species x 1 =
50% of total cover: 30	D 20% o	fitotal cover	. 12.	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 304 x 304 )		1 10101 00101		FAC species x 3 =
Saping/Shrub Stratum (Plot size: DOTT X DOTT)		N/	A	FACU species x 4 =
1. Acer robrom	15	<u> </u>	-HC	
2. Carpinus caroliniana	10	Υ	FAC	UPL species x 5 =
	,			Column Totals: (A) (B)
3.				( )
4				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
0	<u> سے رہ</u>			3 - Prevalence Index is ≤3.0¹
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.	5 20% o	f total cove	r: 5	
Herb Stratum (Plot size: 30ft X30ft)				
AIGUA (FIOL SIZE. JOTT AGOTT)		M	CMILL	Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigantea		· <del>- }</del>	FHCW	be present, unless disturbed or problematic.
				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				I I I I I I I I I I I I I I I I I I I
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.	<del></del>	•		Woody vine – All woody vines greater than 3.28 ft in
11.				height.
1.0				Tiogra.
12.				
	15	= Total Co	over	
50% of total cover:	5 20%	of total cove	er: 3	
1	2070	V		·
Woody Vine Stratum (Plot size:)		* *		
1. Smilax rotunditalia	16	Y .	+HC	
2. Toxicodendron radicans	115	- <del>- y</del>	CHI	
		- <del>- [</del>	<u> </u>	
3.				
4.				
				` <b> </b>
J				- Hydrophytic
		_ = Total C	over	Vegetation
50% of total cover:		of total cov	2.1	Present? Yes No
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		0. 10.01 001	<u> </u>	- 1
Remarks: (If observed, list morphological adaptations be	elow).			

Sampling Point: WNY POIS-W

Profile Description: (Describe to the depth needed to document the indicator or co	ntirm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type Lo	
0-5 101K31, 100	
5-20 2,5 4'5/3 100	C
	,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR S	5, T, U) 1 cm Muck (A9) (LRR O)
☐ Histic Epipedon (A2) ☐ Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (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)	Uther (Explain in Remarks)
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Ochric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR	O. D. T. Sladiostory of budges budges budges at the control of the
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	, , , , , , , , , , , , , , , , , , , ,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Reduced Vertic (F18) (MLRA 150A,	unless disturbed or problematic.
Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (ML	· ·
Stripped Matrix (S6)  Anomalous Bright Loamy Soils (F20)	·
Dark Surface (S7) (LRR P, S, T, U)	(MERCH 140A, 1000, 1000)
Restrictive Layer (if observed):	
Type:	
	Hadda Oall Danis (O. Van. No. Van.
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
indinging,	
Tenano.	
TOTAL NO.	
Totality,	
Territorio,	
Totality,	
TOTALING.	
TACHER NO.	
TOTAL NO.	
TACHER NO.	
TACHER NO.	

## Environmental Field Surveys Wetland Photo Page



Upland data point wnrp015\_u facing west.

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

Project/Site: ACP	City/County: <u>Greensville</u> Sampling Date: <u>4/9/15</u>
Applicant/Owner: Dominion	State: VA Sampling Point: Warp 002f.u
Investigator(s): ESI (Roper, Turnholl)	Section, Township, Range: <u>VONC</u>
Landform (hillslope, terrace, etc.): dcalvage	Local relief (concave, convex, none): LON(WL Slope (%): 7-5
Subregion (LRR or MLRA): LR P Lat: 36.	54960 Long: -77, 3031 Datum: W/5589
Soil Map Unit Name: Roande Joan 5-21, Slopes	frequently flooded NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2)  Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosp	
Sediment Deposits (B2)  Value Walks (B1)  Oxidized Rrizosp  Oxidized Rrizosp	oheres along Living Roots (C3) Upry-Season Water Table (C2) Upped Iron (C4) Crayfish Burrows (C8)
	uction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain in	· · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	2.
Surface Water Present? Yes No Depth (inche	
Water Table Present? YesNo Depth (inche Saturation Present? Yes No Depth (inche	es): 501 7400   Wetland Hydrology Present? Yes No No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

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

Sampling Point: Wgrp002f.W

2-0.356		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x30ff )		Species?		Number of Dominant Species
1. Acer Norum			FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				THAT ALE COL, I ACVV, OF PAC.
7				Prevalence Index worksheet;
8.		·		Total % Cover of: Multiply by:
0	1.5	= Total Cov		OBL species x 1 =
50% of total cover: 7.5	000/ -	- 10(a) 00V	ਦ। "7	FACW species x 2 =
Sapting/Shrub Stratum (Plot size: 30ff x 30ff)	20% 0	total cover:	<del></del>	FAC species x 3 =
	1.0		FAL	FACU species x 4 =
1. Acer rubrum				UPL species x 5 =
2				\$ I
3.		<u></u>		Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				<del> </del>
		= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover:5	20% 0	f total cover	7	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30ft x 30ft)	2076 0	i total cover.	Countries .	
1 Jan (2)				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb — All harbanaus (non woody) plants, regardless
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.	-	·		Height.
16.	<del>-</del>	- Tatal Car		
FOO! - 51-1-1		_= Total Co		
50% of total cover: <u>Woody Vine Stratum</u> (Plot size: <u>30+1 x 30+1</u> )	20% (	of total cover	:	
woody vine Stratum (Plot size: 2017 x 3011)				
1. <u>none</u>		-		,
2				
3				
4				
5	_	_		Hydrophytic
		= Total Co	ver	Vegetation /
50% of total cover:	20%	- of total cove	r:	Present? Yes V No
Remarks: (If observed, list morphological adaptations be				
( a sassing protegram of the sassing s	,.			
•				
1				

	ription: (Describe to the dept	h needed to document the indicator or confirm t	he absence of in	ndicators.)
Depth (inches)	Matrix Color (moist) %	Redox Features		_
(inches)		Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
<u>0-20</u>	Gley 1 5/10/ 100		<u> </u>	
		· · · · · · · · · · · · · · · · · · ·		
		· VALLENATINE - AND AND AND AND AND AND AND AND AND AND		
		Reduced Matrix, MS=Masked Sand Grains.		Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for I	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	Polyvalue Below Surface (S8) (LRR S, T, U)	1 cm Muck	(A9) (LRR O)
	ipedon (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 V	'ertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont F	Floodplain Soils (F19) (LRR P, S, T)
Stratified	l Layers (A5)	Depleted Matrix (F3)		Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 1	
🔲 5 cm Mu	cky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)		t Material (TF2)
	esence (A8) (LRR U)	Redox Depressions (F8)		ow Dark Surface (TF12)
	ick (A9) (LRR P, T)	Marl (F10) (LRR U)		lain in Remarks)
Depleted	f Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)		,
🔲 Thick Da	ark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P, T	Γ) <sup>3</sup> Indicator	s of hydrophytic vegetation and
Coast Pi	rairie Redox (A16) (MLRA 1504	A) I Umbric Surface (F13) (LRR P, T, U)		hydrology must be present,
📗 Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)		disturbed or problematic.
🔲 Sandy G	sleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)		•
☐ Sandy R	ledox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149	A)	
☐ Stripped	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	-	3D)
Dark Su	rface (S7) (LRR P, S, T, U)	• • • • • • • • • • • • • • • • • • • •		· 1
Restrictive I	_ayer (if observed):			
Туре:				/
Depth (inc			Hydric Soil Pre	sent? Yes / No
			Hydric Son Fre	esent? Yes No
Remarks:				

### Environmental Field Surveys Wetland Photo Page



Wetland data point wgrp002f\_w facing west.

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

Project/Site: ACP	City/County: Green 64.11/2 Sampling Date: 41915
Applicant/Owner: Dominion	State: V Sampling Points ACADO, - u
Investigator(s): ESI (Roper, Turnbull)	Section, Township, Range: None
- · · · · · · · · · · · · · · · · · · ·	
Subregion (LRR or MLRA): LEF P 4 Lat: 36.	Local relief (concave, convex, none): CONLAVE Slope (%): 2-5  54460 Long: -77,3031 Datum: W6584
Soil Map Unit Name: P. Canoka Inam 0-74 Store	r. Requently Flooded NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no explain in Remarks)
Are Vegetation, Soil, or Hydrology significantly	/
Are Vegetation, Soil, or Hydrology naturally pr	
	oblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Attach site map showing	3 sampling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	—
Surface Water (A1) Aquatic Fauna (B)	
High Water Table (A2)  Saturation (A3)  Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
Drift Deposits (B3)	iction in Tilled Soils (C6)
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	est: MA
Water Table Present? Yes No Depth (inche	) ZO
Saturation Present? Yes No Depth (inches	· ———
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

3-64.3064	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size: 30ffx30ff)	<u>% Cover</u> \ <b>5</b>	Species?		Number of Dominant Species	( -
			FAC	That Are OBL, FACW, or FAC:	(A)
Des opaca		7	FAC	Total Number of Dominant	
Pinus faeda				Species Across All Strata:	(B)
Quercus falcata			<u> </u>	Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	<u>861,</u> (A/B)
				Prevalence Index worksheet:	
					forthism by the co
					Multiply by:
_		= Total Co		OBL species x 1 =	
50% of total cover; 2	20% of	total cover	r: <u> </u>	FACW species x 2 =	
apling/Shrub Stratum (Plot size: 30 H x 30 H)			ener A	FAC species x 3 =	
Acer rubrum			FAC	FACU species x 4 =	
Ilex opaca	10	<u> </u>	FAC	UPL species x 5 =	
				Column Totals: (A)	(B)
				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicator	
				1 - Rapid Test for Hydrophytic	
				2 - Dominance Test is >50%	vegetation
				3 - Prevalence Index is ≤3.0¹	
	20	= Total Co	ver	Problematic Hydrophytic Vege	and of the second
none				be present, unless disturbed or pro Definitions of Four Vegetation St Tree – Woody plants, excluding vir more in diameter at breast height ( height.  Sapling/Shrub – Woody plants, ex than 3 in. DBH and greater than 3.  Herb – All herbaceous (non-woody of size, and woody plants less than Woody vine – All woody vines gre height.	trata:  nes, 3 in. (7.6 cm) of DBH), regardless of coluding vines, less 28 ft (1 m) tall.  y) plants, regardles in 3.28 ft tall.
2.				no.gr	
		= Total Co	over		
50% of total cover:		f total cove			
voody Vine Stratum (Plot size: 304 x 304)	<del></del>				
. Vitis rotundifolia	10	Y	FAC		
Smilax rotunditolia	10	ý	FA/		
			× 1,		
-					
				Hydrophytic	
		= Total C		Vegetation Present? Yes	No
50% of total cover: _	<u>\\</u> 20% o	f total cov	er:	168_7	140
Remarks: (If observed, list morphological adaptation	s below).				

SOIL								nt: <u>Way-200</u> 02-c
	ription: (Describe	to the dept			tor or confirm	the absence of ind	icators.)	<del> </del>
Depth (inches)	Matrix Color (moist)	<del></del> -	Redo: Color (moist)	x Features	e¹ Loc²	T	-	
0-4	2.5 V 4/3	100	Color (moist)	<u> % Typ</u>	ie roc	Texture	Remark	S
	10 4 12 5/4			, <del></del>		<u> </u>		<del></del>
4-18		100	0 = 4 = 1			_ <u>CL</u>		
18-20	2,546/3	90	2.5/5/2	10 0	<u> </u>	<u> </u>		····
				. — —				
		<u> </u>					····	
Type: C=Co	ncentration D=Der	defien DM-	Reduced Matrix, MS	-Macked San	d Groins	21 anotion: Di		
Hydric Soil I	ndicators: (Applic	able to all L	RRs, unless other	wise noted.)	J Glains,	<sup>2</sup> Location: PL=P Indicators for P		
Histosol			_	low Surface (St	8) (LRR S. T. U		-	
	ipedon (A2)			ırface (S9) (LRF			A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral (F1) (				le MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont Fl	oodplain Soils (F	19) (LRR P, S, T)
	Layers (A5)		Depleted Mat			Anomalous i	Bright Loamy Soil	ls (F20)
	Bodies (A6) (LRR F		Redox Dark			(MLRA 15	•	
	cky Mineral (A7) (L esence (A8) (LRR l		, ,	rk Surface (F7)			Viaterial (TF2)	
	ck (A9) (LRR P, T)		Redox Depre				v Dark Surface (1 iin in Remarks)	F12)
	Below Dark Surface			hric (F11) (MLR	RA 151)	<u> </u>	in in Remarks)	
	rk Surface (A12)	` ′		ese Masses (F		T) <sup>3</sup> Indicators	of hydrophytic ve	egetation and
	airie Redox (A16) (			ice (F13) (LRR			ydrology must be	
	lucky Mineral (S1) (	LRR O, S)		(F17) (MLRA 1	•		sturbed or proble	matic.
	leyed Matrix (S4)			rtic (F18) (MLR.	•			
	edox (S5) Matrix (S6)			oodplain Soils (I				
	rface (S7) (LRR P,	S T III	Anomalous E	angnt Loamy So	ons (F2U) (MLR	A 149A, 153C, 153I	D)	
	ayer (if observed)							
Type:	, (							
• • • • • • • • • • • • • • • • • • • •	ches):					Hydric Soil Pres	ent? Vec	No_1
Remarks:						Tiyano oon ties		

### Environmental Field Surveys Wetland Photo Page



Upland data point wgrp002\_u facing northwest.