Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 7
Subregion (LRR or MLRA): LRR P Lat: 37.119110	
Soil Map Unit Name: Enon fine sandy loam, undulating phase	se NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	· · · · · · · · · · · · · · · · · · ·
Are Vegetation Soil , or Hydrology naturally pr	•
Are vegetation, 30ii, or riyurology naturally pr	Joiennatic: (ii needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	Ja the Countled Asso
Hydric Soil Present? Yes V No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	
Remarks:	
	(sdim001) and at toe of opposing slopes E (40%), W (20%).
	wetland complex. Area mowed periodically. This portion (PEM)
and a PFO portion within the adjacent forest. Photos: 2	382 through 2686 (soil, N, E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	<u> </u>
High Water Table (A2) Hydrogen Sulf	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
_	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

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

00.4	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. N/A		That Are OBL, FACW, or FAC: (A)
2		Total Number of Deminant
3		Total Number of Dominant Species Across All Strata: (B)
4		(b)
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6	NI/A	Prevalence Index worksheet:
	N/A = Total Cover	Total % Cover of: Multiply by:
50% of total cover: N/A	20% of total cover: N/A	
Sapling Stratum (Plot size: 15 ft)		OBL species x 1 =
1. N/A		FACW species x 2 =
		FAC species x 3 =
2		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Column rotals (r) (b)
6		Prevalence Index = B/A =
	N/A = Total Cover	Hydrophytic Vegetation Indicators:
NI/A		1
	20% of total cover: N/A	. 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)		2 - Dominance Test is >50%
1. <u>N/A</u>		3 - Prevalence Index is ≤3.0 ¹
2		4 - Morphological Adaptations ¹ (Provide supporting
		data in Remarks or on a separate sheet)
3		Problematic Hydrophytic Vegetation ¹ (Explain)
4		
5		Indicators of hydric soil and wetland hydrology must
6		be present, unless disturbed or problematic.
	N/A = Total Cover	Definitions of Five Vegetation Strata:
		pominions of the regetation strata.
E00/ of total covery N/A	20% of total cover, N/A	
	20% of total cover: N/A	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis	5 FACU	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve	5 FACU 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis	5 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus	5 FACU 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora	5 FACU 10 FAC 5 FACW 15 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta	5 FACU 10 FAC 5 FACW 15 FAC 20 FAC 20 FAC 10 FAC 15 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta	5 FACU 10 FAC 5 FACW 15 FAC 20 FAC 20 FAC 10 FAC 15 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
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Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11	5 FACU 10 FAC 5 FACW 20 FAC 20 FAC 10 FAC 10 FAC 110 FAC 1113 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC 10 FAC 10 FAC 15 FAC 10 OBL 3 OBL 113 = Total Cover 20% of total cover: 23	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-5	10 YR 3/2	95	10 YR 4/4	5	<u> </u>	PL/M	LM	
5-10	10 YR 5/2	70	10 YR 5/6	20	<u> </u>	PL/M	LM	Divided Matrix
5-10	10 YR 5/3	10					LM	Divided Matrix
10-16	10 YR 6/1	45	10 YR 4/6	35	С	M	LM	Divided Matrix
10-16	10YR 4/2	15					LM	Divided Matrix
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I			_				_	ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				148) <u> </u>	Coast Prairie Redox (A16)
Black His	n Sulfide (A4)		Loamy Gleye	•	, ,	47, 148)	Пр	(MLRA 147, 148) riedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		(1 2)		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		- 6)		<u></u> ∨	'ery Shallow Dark Surface (TF12)
Depleted	l Below Dark Surface	e (A11)	Depleted Da				\square C	other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	.RR N,	☐ Iron-Mangan		es (F12) (LRR N,		
	147, 148) leyed Matrix (S4)		MLRA 13 Umbric Surfa		(MI DA 12	6 122)	3Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):			•				·
Type: NA	4							
Depth (inc	ches):						Hydric Soil	Present? Yes Vo No
Remarks:							1	



Wetland data point wdim001e_w facing north



Wetland data point wdim001e_w facing east



Wetland data point wdim001e_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001_u
	Section, Township, Range: NA
	cal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.119125	
Soil Map Unit Name: Enon fine sandy loam, undulating phas	e NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	· · · · · · · · · · · · · · · · · · ·
Are Vegetation Soil , or Hydrology naturally pro	•
Are vegetation, soil, or rivationary j naturally pre	internate: (ii needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Compled Aven
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
Hillsope above floodplain wetland wdim001. Two wetland	nd classes are associated with the wetland complex. This
	est. Plot is within a pasture that appears to be mowed/grazed
periodically. Photos: 2688 through 2692 (soil, N, E, S, V	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	lants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen Sulfic	<u> </u>
	spheres on Living Roots (C3) Moss Trim Lines (B16)
l —	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Re	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surf	ace (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches)	: Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	l us, previous inspections), if available:
NA	
Remarks:	

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

Sampling Point: wdim001_u <u>Tree Stratum</u> (Plot size: 30 ft) Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant 0 ____(B) Species Across All Strata: Percent of Dominant Species ____ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: ____ = Total Cover Total % Cover of: Multiply by: 50% of total cover: _____ 20% of total cover:____ OBL species _____ x 1 =____ Sapling Stratum (Plot size: 15 ft) FACW species _____ x 2 =____ FAC species _____ x 3 =____ FACU species _____ x 4 =____ UPL species _____ x 5 =____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A =____ ____ = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: _____ 20% of total cover:____ Shrub Stratum (Plot size: 15 ft 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ____ = Total Cover **Definitions of Five Vegetation Strata:** 50% of total cover: _____ 20% of total cover:___ Tree – Woody plants, excluding woody vines, Herb Stratum (Plot size: 5 ft approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 1. Digitaria sanguinalis **FACU** 2. Paspalum laeve Ν **FAC** Sapling - Woody plants, excluding woody vines, Ν approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Solanum carolinense **FACU** 4. Tridens flavus 30 **FACU FAC** 5. Setaria pumila 15 Ν **Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. Commelina communis **FAC** Ν 7. Plantago major Ν **FACU** Herb - All herbaceous (non-woody) plants, including 8. Eupatorium capillifolium FACU herbaceous vines, regardless of size, and woody Ν plants, except woody vines, less than approximately 3 9. Trifolium repens **FACU** ft (1 m) in height. **FACU** 10. Eleusine indica Woody vine - All woody vines, regardless of height. 150 _ = Total Cover 50% of total cover: <u>7</u>5 __ 20% of total cover: 30 Woody Vine Stratum (Plot size: 30 ft) Hydrophytic _____ = Total Cover Vegetation No V Present? 50% of total cover: ___ 20% of total cover:

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

Numerous pasture grasses, no fruits; 15% no ID.

Profile Desc	cription: (Describe	to the dep	th needed to document th	e indicator	or confirm	the absence o	f indicators.)
Depth	Matrix		Redox Featu	res1		-	
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-7	10 YR 3/3	98				<u>LM</u>	
7-16	10 YR 4/4	98				LM	
		- —					
-	-	- ——			· ——		
	-						
¹ Type: C=Co	oncentration D=Der	letion RM=	Reduced Matrix, MS=Mask	ed Sand Gr	ains	² Location: PL =	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:	JICTION, TRIVI-	-reduced Matrix, MS-Mask	ica Sana On	uiris.	Indicate	ors for Problematic Hydric Soils ³ :
Histosol			☐ Dark Surface (S7)				m Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Sur	face (S8) (N	/II RA 147		ast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S			. —	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matri		, ,		edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark Surface				ry Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Dark Surfa	ce (F7)			ner (Explain in Remarks)
	ark Surface (A12)		Redox Depressions	(F8)			·
Sandy M	lucky Mineral (S1) (LRR N,	☐ Iron-Manganese Ma	sses (F12) (LRR N,		
	A 147, 148)		MLRA 136)				
	Gleyed Matrix (S4)		Umbric Surface (F13				ators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain				and hydrology must be present,
	Matrix (S6)		. Red Parent Material	(F21) (MLR	A 127, 147	') unle	ss disturbed or problematic.
	Layer (if observed)	:					
Type: N							
Depth (in	ches):					Hydric Soil F	Present? Yes No No
Remarks:							



Upland data point wdim001e_u facing north



Upland data point wdim001e_u facing east



Upland data point wdim001e_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.11907	
Soil Map Unit Name: Enon fine sandy loam, undulating pha	NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of	
	ly disturbed? Are "Normal Circumstances" present? Yes Vo No
	oroblematic? (If needed, explain any answers in Remarks.)
	•
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes Ves No Remarks:	<u>-</u>
	(CDIMOO1) and at too of annoging clance F (400/) \M (200/)
	k (SDIM001) and at toe of opposing slopes E (40%), W (20%). n wetland complex. This portion (PFO) and a PEM portion within
	ps) and cattle impacts throughout. Several small mounds with
upland soils mapped within this complex. Photos: 266	
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)	Plants (B14) Sparsely Vegetated Concave Surface (B8)
	lfide Odor (C1)
<u> </u>	zospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of F	Reduced Iron (C4) Dry-Season Water Table (C2)
	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche	es): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
NA	
Remarks:	

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Quercus michauxii	40	Y	FACW	That Are OBL, FACW, or FAC: 9 (A)
2. Liriodenderon tulipifera	50	Y	FACU	Total Number of Dominant
3. Liquidambar styraciflua	25	<u>N</u>	<u>FAC</u>	Species Across All Strata: 10 (B)
4. Acer rubrum	20	N	FAC	Developed of Developed Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 90 (A/B)
6.				That the OBE, 1 Now, of 1 No.
	135	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 67.5				Total % Cover of: Multiply by:
	20% 01	total cover:		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)	15	V	FACW	FACW species x 2 =
1. Quercus michauxii	15 10	<u>Y</u> N		FAC species x 3 =
2. Liriodenderon tulipifera			FACU	FACU species x 4 =
3. Carpinus caroliniana	35	Υ	FAC	UPL species x 5 =
4				Column Totals: (A) (B)
5				(3)
6				Prevalence Index = B/A =
	60	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 30				1 - Rapid Test for Hydrophytic Vegetation
	20% 01	total cover.	<u></u>	✓ 2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft 1, Fraxinus pennsylvanica	5	N	FACW	3 - Prevalence Index is ≤3.0 ¹
	30	<u>Y</u>	FAC	4 - Morphological Adaptations ¹ (Provide supporting
2. Carpinus caroliniana				data in Remarks or on a separate sheet)
3. Fagus grandifolia	5	N	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Quercus mauchii	15	<u>Y</u>	FACW	= 1 resistate rijeroprijate regetatem (zapiemi)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	55	= Total Cov	or	<u> </u>
		rotal oov	GI	Definitions of Five Vegetation Strata:
50% of total cover: 27.5				Definitions of Five Vegetation Strata:
50% of total cover: 27.5 Herb Stratum (Plot size: 5 ft				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	11	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica	20% of	total cover:	11 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica	20% of 3	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica	20% of 3	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5.	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5.	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9.	20% of 3 3 5 10	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5	20% of 3 3 5 10	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10	20% of 3 3 5 10	N N Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 11.	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 50% of total cover: 11	20% of 3 3 5 10	N N Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft)	20% of 3 3 5 10	N N Y Y = = Total Cover:	FACW FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica	20% of 3 3 5 10	N N Y Y Total Cover:	FACW FACW FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	20% of 3 3 5 10	N N Y Y STORY TOTAL COVERS	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	20% of 3 3 5 10	N N Y Y STORY TOTAL COVERS	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5 50% of total cover: 3	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Profile Desc	cription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es 1		_	_
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6	10 YR 4/2	95	10 YR 4/6	2	<u> </u>	<u>M</u>	SI/LM	
6-14	10 YR 6/1	50	10 YR 4/6	35	С	M	SI/LM	10% 10 YR 5/3 matrix
		- ——						
						·		
	-							
		- ——						
¹ Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			<u> </u>	2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		<u>∟</u> F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(F.C.)		\Box	(MLRA 136, 147)
	uck (A10) (LRR N) d Below Dark Surfac	o (A11)	Redox Dark					/ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ :	u below Dark Surfac ark Surface (A12)	e (ATT)	Redox Depre					otilei (Expiaiii iii Keiliaiks)
	Aucky Mineral (S1) (I RR N	Iron-Mangan			I RR N		
	A 147, 148)		MLRA 13		303 (1 12) (
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	86, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6)		Red Parent N	Material (F21) (MLR	A 127, 147	7) un	nless disturbed or problematic.
	Layer (if observed)	:						
Туре: <u>N</u> .	Α							
Depth (in	ches):						Hydric Soil	I Present? Yes 🔽 No 🔲
Remarks:							<u> </u>	



Wetland data point wdim001f_w facing north



Wetland data point wdim001f_w facing east



Wetland data point wdim001f_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie	Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	Si	tate: VA Sampling Point: wdim001_u2
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	damping round to the
• • • •	Local relief (concave, convex, none):	concave Slope (%): 45
Subregion (LRR or MLRA): LRR P Lat: 37.1191		
Soil Map Unit Name: Enon fine sandy loam, undulating ph		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of		o, explain in Remarks.)
		cumstances" present? Yes No No
	•	ain any answers in Remarks.)
J J JJ J		,
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No V	Is the Sampled Area within a Wetland?	Yes No V
Wetland Hydrology Present? Yes . No .].	
Remarks:		
Hillsope above floodplain wetland wdim001. Two wet		
portion (PFO) and a PEM portion within the adjacent	field. Photos: 2672 through 26	76 (soil, N, E, S, W).
HYDROLOGY		
Wetland Hydrology Indicators:	Sec	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	(v)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquation	Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	ulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rh	izospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1) Presence of	Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	surface (C7)	Saturation Visible on Aerial Imagery (C9)
I <u> </u>	nin in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	<u> </u>	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	<u></u>	Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No V Depth (inch	I	
	es):	
Saturation Present? Yes No Depth (incl (includes capillary fringe)	es): Wetland Hydr	rology Present? Yes No V
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if availabl	le:
NA		
Remarks:		

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

00.4	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species		
1. Liriodendron tuliperfera	75	<u>Y</u>	FACU	That Are OBL, FACW, or FAC: 7 (A)		
2. Liquidambar styraciflua	25	<u>Y</u>	FAC	Total Number of Dominant		
3				Species Across All Strata: 12 (B)		
4						
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 58 (A/B)		
6.				That Are OBL, I ACW, OF I AC. (A/B)		
<u></u>	100	= Total Cov	uor .	Prevalence Index worksheet:		
				Total % Cover of: Multiply by:		
	20% of	total cover	: 20	OBL species x 1 =		
Sapling Stratum (Plot size: 15 ft			=	FACW species x 2 =		
1. Liriodendron tuliperfera	30	<u>Y</u>	FACU	FAC species x 3 =		
2. Liquidambar styraciflua	40	Υ	FAC	FACU species x 4 =		
3. Cornus florida	15	N	FACU	1 · · · · ·		
4. Quercus rubra	10	N	FACU	UPL species x 5 =(2)		
5				Column Totals: (A) (B)		
6.				Prevalence Index = B/A =		
<u></u>	95	= Total Cov	uor .	Hydrophytic Vegetation Indicators:		
40				1		
50% of total cover: 48	20% of	total cover	: 19	1 - Rapid Test for Hydrophytic Vegetation		
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%		
1. Cornus florida	10	<u>Y</u>	FACU	3 - Prevalence Index is ≤3.0 ¹		
2. Acer rubrum	5	N	FAC	4 - Morphological Adaptations ¹ (Provide supporting		
3. Liquidambar styraciflua	10	Υ	FAC	data in Remarks or on a separate sheet)		
4. Cercis canadensis	3	N	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
5. Asimina triloba	3	N	FAC			
6		-		¹ Indicators of hydric soil and wetland hydrology must		
0	31	= Total Cov	·	be present, unless disturbed or problematic.		
40				Definitions of Five Vegetation Strata:		
50% of total cover: 16	20% of	total cover	: <u>/</u>	Tree – Woody plants, excluding woody vines,		
Herb Stratum (Plot size: 5 ft)				approximately 20 ft (6 m) or more in height and 3 in.		
1. Amphicarpaea bracteata	2	<u>Y</u>	FAC	(7.6 cm) or larger in diameter at breast height (DBH).		
2. Dicanthelium clandestinum	1	N	FAC	Sapling – Woody plants, excluding woody vines,		
3. Carpinus caroliniana	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less		
4. Ilex opaca	2	Υ	FACU	than 3 in. (7.6 cm) DBH.		
5. Polystichum acrostichoides	1	N	FACU	Shrub – Woody plants, excluding woody vines,		
6. Cornus florida	2	Y	FACU	approximately 3 to 20 ft (1 to 6 m) in height.		
7				Harb All barbassas (non vocado) planta including		
7	. ——			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
8				plants, except woody vines, less than approximately 3		
9	. ——			ft (1 m) in height.		
10				Woody vine – All woody vines, regardless of height.		
11						
	13	= Total Cov	ver			
50% of total cover: 7	20% of	total cover	<u>.</u> 3			
Woody Vine Stratum (Plot size: 30 ft)						
1. Campsis radicans	1	N	FAC			
2. Smilax bona-nox	1	N	FACU			
3. Smilax rotundifolia	1	N	FAC			
4. Lonicera japonica	5	Y	FAC			
	2	<u> </u>	FAC			
_{5.} Rubus idaeus				Hydrophytic		
	10	= Total Cov	ver	Vegetation		
50% of total cover: 5	20% of	total cover	: <u>2</u>	Present? Yes No No		
Remarks: (Include photo numbers here or on a separate sheet.)						
Numerous grasses, no fruits; 5% no ID.						

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the indicate	or or confirm	the absence of i	ndicators.)
Depth	Matrix			Features			
(inches)	Color (moist)	%	Color (moist)	<u>% Type</u>	Loc ²	<u>Texture</u>	Remarks
0-4	10 YR 3/2	98				LM	
4-16	10 YR 6/6	95				SA/LM	
							_
							_
1							
		letion, RM	=Reduced Matrix, MS	=Masked Sand (Grains.		Pore Lining, M=Matrix.
Hydric Soil I							s for Problematic Hydric Soils ³ :
Histosol			Dark Surface				Muck (A10) (MLRA 147)
	oipedon (A2)			ow Surface (S8)			st Prairie Redox (A16)
Black Hi				face (S9) (MLR/	A 147, 148)	`	LRA 147, 148)
_ , ,	n Sulfide (A4)		Loamy Gleyed				mont Floodplain Soils (F19)
	Layers (A5)		Depleted Matr				LRA 136, 147)
	ck (A10) (LRR N) I Below Dark Surfac	o (A11)	Redox Dark S				Shallow Dark Surface (TF12)
_ :	i Below Dark Surfac irk Surface (A12)	e (ATT)	Depleted Dark Redox Depres				r (Explain in Remarks)
	lucky Mineral (S1) (I	DD N		se Masses (F12) (I DD N		
	147, 148)	LNN IN,	MLRA 136) (LNN N,		
	leyed Matrix (S4)			ce (F13) (MLRA	136 122)	³ Indicat	ors of hydrophytic vegetation and
	edox (S5)			odplain Soils (F1			id hydrology must be present,
	Matrix (S6)			aterial (F21) (MI			s disturbed or problematic.
	ayer (if observed)	:		atoriai (i 2 i) (i i i		1	, diotal 200 of problematic
Type: NA							
Depth (inc						Hydric Soil Pre	esent? Yes No V
Remarks:						J	
Romans.							



Upland data point wdim001_u2 facing north



Upland data point wdim001_u2 facing east



Upland data point wdim001_u2 soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 7
Subregion (LRR or MLRA): LRR P Lat: 37.119110	Datum: NAD1983
Soil Map Unit Name: Enon fine sandy loam, undulating phase	se NWI classification: PFO1C
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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present? Yes V No	
Remarks:	
	(sdim001) and at toe of opposing slopes E (40%), W (20%).
·	wetland complex. Area mowed periodically. This portion (PEM)
and a PFO portion within the adjacent forest. Photos: 20	302 tillough 2000 (Soli, N, E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfi	ide Odor (C1) Drainage Patterns (B10)
Saturation (A3)	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Sur	
Algal Mat or Crust (B4) Uther (Explain Iron Deposits (B5)	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes V No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os previous inspections) if available
NA	55, providus inspections), il avaliable.
Remarks:	

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

00.4	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. N/A		That Are OBL, FACW, or FAC: (A)
2		Total Number of Deminant
3		Total Number of Dominant Species Across All Strata: (B)
4		(<i>b</i>)
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6	NI/A	Prevalence Index worksheet:
	N/A = Total Cover	Total % Cover of: Multiply by:
50% of total cover: N/A	20% of total cover: N/A	
Sapling Stratum (Plot size: 15 ft)		OBL species x 1 =
1. N/A		FACW species x 2 =
		FAC species x 3 =
2		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Column rotals (r) (b)
6		Prevalence Index = B/A =
	N/A = Total Cover	Hydrophytic Vegetation Indicators:
NI/A		1
	20% of total cover: N/A	. 1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)		2 - Dominance Test is >50%
1. <u>N/A</u>		3 - Prevalence Index is ≤3.0 ¹
2		4 - Morphological Adaptations ¹ (Provide supporting
		data in Remarks or on a separate sheet)
3		Problematic Hydrophytic Vegetation ¹ (Explain)
4		,
5		Indicators of hydric soil and wetland hydrology must
6		be present, unless disturbed or problematic.
	N/A = Total Cover	Definitions of Five Vegetation Strata:
E00/ of total cover. N/A	200/ of total cover: N/A	2 communication of the registration of attack
	20% of total cover: N/A	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis	5 FACU	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve	5 FACU 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis	5 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus	5 FACU 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora	5 FACU 10 FAC 5 FACW 15 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC 10 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta	5 FACU 10 FAC 5 FACW 15 FAC 20 FAC 20 FAC 10 FAC 15 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta	5 FACU 10 FAC 5 FACW 15 FAC 20 FAC 20 FAC 10 FAC 15 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL 3 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11.	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL 3 OBL	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 10 FAC 15 FAC 10 OBL 3 OBL 113 = Total Cover 20% of total cover: 23	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11	5 FACU 10 FAC 5 FACW 20 FAC 20 FAC 10 FAC 10 FAC 110 FAC 1113 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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Herb Stratum (Plot size: 5 ft) 1. Digitaria sanguinalis 2. Paspalum laeve 3. Cyperus odoratus 4. Agrimony parviflora 5. Microstegium vimineum 6. Commelina communis 7. Panicum varigatum 8. Persicaria longiseta 9. Persicaria hydropiper 10. Lycopus americanus 11	5 FACU 10 FAC 5 FACW 15 FACW 20 FAC 20 FAC 10 FAC 10 FAC 15 FAC 10 OBL 3 OBL 113 = Total Cover 20% of total cover: 23	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-5	10 YR 3/2	95	10 YR 4/4	5	<u> </u>	PL/M	LM	
5-10	10 YR 5/2	70	10 YR 5/6	20	<u> </u>	PL/M	LM	Divided Matrix
5-10	10 YR 5/3	10					LM	Divided Matrix
10-16	10 YR 6/1	45	10 YR 4/6	35	С	M	LM	Divided Matrix
10-16	10YR 4/2	15					LM	Divided Matrix
					· ——			
	oncentration, D=Dep	letion, RM:	Reduced Matrix, MS	S=Maske	d Sand Gra	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil			_				_	ators for Problematic Hydric Soils ³ :
Histosol	• •		Dark Surface					cm Muck (A10) (MLRA 147)
· ·	nipedon (A2)		Polyvalue Be				148) <u> </u>	Coast Prairie Redox (A16)
Black Hi	n Sulfide (A4)		Loamy Gleye	•	, ,	47, 148)	Пр	(MLRA 147, 148) riedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		(1 2)		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		F6)		<u></u> ∨	'ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Da				\square C	other (Explain in Remarks)
_	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (L	.RR N,	☐ Iron-Mangan		ses (F12) (LRR N,		
	147, 148) sleyed Matrix (S4)		MLRA 13 Umbric Surfa		/MI DA 12	6 122)	3Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):							·
Type: NA	4							
Depth (ind	ches):						Hydric Soil	Present? Yes Vo No
Remarks:							1	



Wetland data point wdim001e_w facing north



Wetland data point wdim001e_w facing east



Wetland data point wdim001e_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	cal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.119125	
Soil Map Unit Name: Enon fine sandy loam, undulating phas	ee NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil , or Hydrology significantly	
Are Vegetation Soil , or Hydrology naturally pro	
Are vegetation, 30ii, or rigurology naturally pro	in needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	le the Counted Asse
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	133
Remarks:	_
Hillsope above floodplain wetland wdim001 Two wetland	nd classes are associated with the wetland complex. This
	rest. Plot is within a pasture that appears to be mowed/grazed
periodically. Photos: 2688 through 2692 (soil, N, E, S, \	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	lants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen Sulfi	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
I —	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Re	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	face (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	oc provings inspections) if available:
NA	75, providus inspections), ir available.
Remarks:	
nemarks.	

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

Sampling Point: wdim001_u <u>Tree Stratum</u> (Plot size: 30 ft) Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant 0 ____(B) Species Across All Strata: Percent of Dominant Species ____ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: ____ = Total Cover Total % Cover of: Multiply by: 50% of total cover: _____ 20% of total cover:____ OBL species _____ x 1 =____ Sapling Stratum (Plot size: 15 ft) FACW species _____ x 2 =____ FAC species _____ x 3 =____ FACU species _____ x 4 =____ UPL species _____ x 5 =____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A =____ ____ = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: _____ 20% of total cover:____ Shrub Stratum (Plot size: 15 ft 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ____ = Total Cover **Definitions of Five Vegetation Strata:** 50% of total cover: _____ 20% of total cover:___ Tree – Woody plants, excluding woody vines, Herb Stratum (Plot size: 5 ft approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 1. Digitaria sanguinalis **FACU** 2. Paspalum laeve Ν **FAC** Sapling - Woody plants, excluding woody vines, Ν approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Solanum carolinense **FACU** 4. Tridens flavus 30 **FACU FAC** 5. Setaria pumila 15 Ν **Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. Commelina communis **FAC** Ν 7. Plantago major Ν **FACU** Herb - All herbaceous (non-woody) plants, including 8. Eupatorium capillifolium FACU herbaceous vines, regardless of size, and woody Ν plants, except woody vines, less than approximately 3 9. Trifolium repens **FACU** ft (1 m) in height. **FACU** 10. Eleusine indica Woody vine - All woody vines, regardless of height. 150 _ = Total Cover 50% of total cover: <u>7</u>5 __ 20% of total cover: 30 Woody Vine Stratum (Plot size: 30 ft) Hydrophytic _____ = Total Cover Vegetation No V Present? 50% of total cover: ___ 20% of total cover:

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

Numerous pasture grasses, no fruits; 15% no ID.

Profile Desc	ription: (Describe	to the dep	th needed to document th	ne indicator	or confirm	the absence of	indicators.)
Depth	Matrix		Redox Feat	ures1	- 2	-	
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹	Loc ²	Texture	Remarks
0-7	10 YR 3/3	98				LM _	
7-16	10 YR 4/4	98				LM	
-		- ——					
		- —					
							_
							_
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, MS=Mas	ked Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil							ors for Problematic Hydric Soils ³ :
L Histosol	• •		Dark Surface (S7)				n Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Su			. —	st Prairie Redox (A16)
Black Hi			Thin Dark Surface (47, 148)		MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (53				dmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted Matrix (F3 Redox Dark Surface				MLRA 136, 147) y Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface				er (Explain in Remarks)
	ark Surface (A12)		Redox Depressions				or (Enpreum morname)
	lucky Mineral (S1) (LRR N,	Iron-Manganese Ma		LRR N,		
MLRA	A 147, 148)		MLRA 136)				
	Gleyed Matrix (S4)		Umbric Surface (F1				ntors of hydrophytic vegetation and
	tedox (S5)		Piedmont Floodplai				nd hydrology must be present,
	Matrix (S6)		. Red Parent Materia	l (F21) (MLR .	A 127, 147	') unles	s disturbed or problematic.
	_ayer (if observed)	:					
Type: N							
Depth (in	ches):					Hydric Soil Pr	resent? Yes No No
Remarks:							



Upland data point wdim001e_u facing north



Upland data point wdim001e_u facing east



Upland data point wdim001e_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim001f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.11907	
Soil Map Unit Name: Enon fine sandy loam, undulating pha	NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation Soil , or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	1 William & Welland: 163 No
Remarks:	<u>F</u>
	k (SDIM001) and at toe of opposing slopes E (40%), W (20%).
	n wetland complex. This portion (PFO) and a PEM portion within
	ps) and cattle impacts throughout. Several small mounds with
upland soils mapped within this complex. Photos: 266	6 through 2670 (soil, N, E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) True Aquatic	
	Ifide Odor (C1)
Saturation (A3) Oxidized Rhiz	zospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of I	Reduced Iron (C4) Dry-Season Water Table (C2)
	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es):
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	itos, previous inspections), if available:
NA	
Remarks:	

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft		Species?		Number of Dominant Species
1. Quercus michauxii	40	Y	FACW	That Are OBL, FACW, or FAC: 9 (A)
2. Liriodenderon tulipifera	50	Y	FACU	Total Number of Dominant
3. Liquidambar styraciflua	25	<u>N</u>	<u>FAC</u>	Species Across All Strata: 10 (B)
4. Acer rubrum	20	N	FAC	Developed of Developed Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 90 (A/B)
6.				That the OBE, 1 Now, of 1 No.
	135	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 67.5				Total % Cover of: Multiply by:
	20% 01	total cover:		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)	15	V	FACW	FACW species x 2 =
1. Quercus michauxii	15 10	<u>Y</u> N		FAC species x 3 =
2. Liriodenderon tulipifera			FACU	FACU species x 4 =
3. Carpinus caroliniana	35	Υ	FAC	UPL species x 5 =
4				Column Totals: (A) (B)
5				(3)
6				Prevalence Index = B/A =
	60	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 30				1 - Rapid Test for Hydrophytic Vegetation
	20% 01	total cover.	<u></u>	✓ 2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft 1, Fraxinus pennsylvanica	5	N	FACW	3 - Prevalence Index is ≤3.0 ¹
	30	$\frac{1}{Y}$	FAC	4 - Morphological Adaptations ¹ (Provide supporting
2. Carpinus caroliniana				data in Remarks or on a separate sheet)
3. Fagus grandifolia	5	N	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Quercus mauchii	15	<u>Y</u>	FACW	= 1 resistate rijeroprijate regetatem (zapiemi)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	55	= Total Cov	or	<u> </u>
		- Total Cov	GI	Definitions of Five Vegetation Strata:
50% of total cover: 27.5				Definitions of Five Vegetation Strata:
50% of total cover: 27.5				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	11	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica	20% of	total cover:	11 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica	20% of 3	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica	20% of 3	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5.	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5.	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5	20% of 3 3 5	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9.	20% of 3 3 5 10	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5	20% of 3 3 5 10	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10	20% of 3 3 5 10	N N Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 11.	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 50% of total cover: 11	20% of 3 3 5 10	N N Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft)	20% of 3 3 5 10	N N Y Y = = Total Cover:	FACW FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica	20% of 3 3 5 10	N N Y Y Total Cover:	FACW FACW FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	20% of 3 3 5 10	N N Y Y STORY TOTAL COVERS	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	20% of 3 3 5 10	N N Y Y STORY TOTAL COVERS	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans	20% of 3 3 5 10	N N Y Y STATE TOTAL COVERS TOTA	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5 50% of total cover: 3	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Fraxinus pennsylvanica 2. Leersia virginica 3. Carpinus caroliniana 4. Amphicarpaea bracteata 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica 2. Toxicodendron radicans 3. Campsis radicans 4. Smilax rotundifolia 5	20% of 3 3 5 10	Total Cover: N N Y Y Y	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Profile Desc	cription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es 1		_	_
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-6	10 YR 4/2	95	10 YR 4/6	2	<u> </u>	<u>M</u>	SI/LM	
6-14	10 YR 6/1	50	10 YR 4/6	35	С	M	SI/LM	10% 10 YR 5/3 matrix
						·		
	-							
		- ——						
¹ Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			<u> </u>	cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		<u>∟</u> F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(F.C.)		\Box	(MLRA 136, 147)
	uck (A10) (LRR N) d Below Dark Surfac	o (A11)	Redox Dark					/ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
_ :	u below Dark Surfac ark Surface (A12)	e (ATT)	Redox Depre					otilei (Expiaiii iii Keiriaiks)
	Aucky Mineral (S1) (I RR N	Iron-Mangan			I RR N		
	A 147, 148)		MLRA 13		303 (1 12) (
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	86, 122)	³ Inc	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6)		Red Parent N	Material (F21) (MLR	A 127, 147	7) un	lless disturbed or problematic.
	Layer (if observed)	:						
Туре: <u>N</u> .	Α							
Depth (in	ches):						Hydric Soil	Present? Yes 🔽 No 🔲
Remarks:							<u> </u>	



Wetland data point wdim001f_w facing north



Wetland data point wdim001f_w facing east



Wetland data point wdim001f_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie		Sampling Date: <u>9/2/2014</u>
Applicant/Owner: Dominion Transmission	Oity/odunty.	State: VA	Sampling Point: Wdim001_u2
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	4	<u> </u>
9 11	ocal relief (concave, convex, none		Slope (%): 45
Subregion (LRR or MLRA): LRR P Lat: 37.119110			Datum: NAD1983
Soil Map Unit Name: Enon fine sandy loam, undulating pha		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y		f no, explain in R	
		Circumstances" p	
	·	xplain any answe	
3 <u> </u>	,	. ,	,
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locatior	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No V	- Is the Sampled Area within a Wetland?	Yes	No V
Wetland Hydrology Present? Yes . No No			
Remarks:	· •		
Hillsope above floodplain wetland wdim001. Two wetland			
portion (PFO) and a PEM portion within the adjacent fie	eld. Photos: 2672 through 2	2676 (soil, N,	E, S, W).
HYDROLOGY			
Wetland Hydrology Indicators:		 Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Plants (B14)	Sparsely Vec	getated Concave Surface (B8)
	fide Odor (C1)	Drainage Pat	
Saturation (A3) Oxidized Rhiz	cospheres on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1) Presence of F	Reduced Iron (C4)	Dry-Season '	Water Table (C2)
Sediment Deposits (B2)	deduction in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	rface (C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	n in Remarks)		tressed Plants (D1)
Iron Deposits (B5)	Ļ	_ ·	Position (D2)
Inundation Visible on Aerial Imagery (B7)	Ī	Shallow Aqui	l l
Water-Stained Leaves (B9)	L		aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:	,		
Surface Water Present? Yes No Depth (inche	I		
Water Table Present? Yes No Depth (inche			
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): Wetland Hy	ydrology Presen	nt? Yes No V
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if availa	able:	
NA			
Remarks:			

00.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Liriodendron tuliperfera	75	<u>Y</u>	FACU	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	25	<u>Y</u>	FAC	Total Number of Dominant
3				Species Across All Strata: 12 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 58 (A/B)
6.				That Are OBL, I ACW, OF I AC. (A/B)
<u></u>	100	= Total Cov	uor .	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	20% of	total cover	: 20	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft			=	FACW species x 2 =
1. Liriodendron tuliperfera	30	<u>Y</u>	FACU	FAC species x 3 =
2. Liquidambar styraciflua	40	Υ	FAC	FACU species x 4 =
3. Cornus florida	15	N	FACU	1 · · · · ·
4. Quercus rubra	10	N	FACU	UPL species x 5 =(2)
5				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
<u></u>	95	= Total Cov	uor .	Hydrophytic Vegetation Indicators:
40				1
50% of total cover: 48	20% of	total cover	: 19	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Cornus florida	10	<u>Y</u>	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	5	N	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Liquidambar styraciflua	10	Υ	FAC	data in Remarks or on a separate sheet)
4. Cercis canadensis	3	N	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Asimina triloba	3	N	FAC	
6				¹ Indicators of hydric soil and wetland hydrology must
0	31	= Total Cov	·	be present, unless disturbed or problematic.
40				Definitions of Five Vegetation Strata:
50% of total cover: 16	20% of	total cover	: <u>/</u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)				approximately 20 ft (6 m) or more in height and 3 in.
1. Amphicarpaea bracteata	2	<u>Y</u>	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Dicanthelium clandestinum	1	N	FAC	Sapling – Woody plants, excluding woody vines,
3. Carpinus caroliniana	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less
4. Ilex opaca	2	Υ	FACU	than 3 in. (7.6 cm) DBH.
5. Polystichum acrostichoides	1	N	FACU	Shrub – Woody plants, excluding woody vines,
6. Cornus florida	2	Y	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7				Harb All barbassas (non vocado) planta including
7	. ——			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9	. ——			ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				
	13	= Total Cov	ver	
50% of total cover: 7	20% of	total cover	<u>.</u> 3	
Woody Vine Stratum (Plot size: 30 ft)				
1. Campsis radicans	1	N	FAC	
2. Smilax bona-nox	1	N	FACU	
3. Smilax rotundifolia	1	N	FAC	
4. Lonicera japonica	5	Y	FAC	
	2	<u> </u>	FAC	
_{5.} Rubus idaeus				Hydrophytic
	10	= Total Cov	ver	Vegetation
50% of total cover: 5	20% of	total cover	: <u>2</u>	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			I .
Numerous grasses, no fruits; 5% no ID.				

Sampling Point: wdim001_u2

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the indicate	or or confirm	the absence of i	ndicators.)
Depth	Matrix			Features			
(inches)	Color (moist)	%	Color (moist)	<u>% Type</u>	Loc ²	<u>Texture</u>	Remarks
0-4	10 YR 3/2	98				LM	
4-16	10 YR 6/6	95				SA/LM	
							_
							_
1							
		letion, RM	=Reduced Matrix, MS	=Masked Sand (Grains.		Pore Lining, M=Matrix.
Hydric Soil I							s for Problematic Hydric Soils ³ :
Histosol			Dark Surface				Muck (A10) (MLRA 147)
	oipedon (A2)			ow Surface (S8)			st Prairie Redox (A16)
Black Hi				face (S9) (MLR/	A 147, 148)	`	LRA 147, 148)
_ , ,	n Sulfide (A4)		Loamy Gleyed				mont Floodplain Soils (F19)
	Layers (A5)		Depleted Matr				LRA 136, 147)
	ck (A10) (LRR N) I Below Dark Surfac	o (A11)	Redox Dark S				Shallow Dark Surface (TF12)
_ :	i Below Dark Surfac irk Surface (A12)	e (ATT)	Depleted Dark Redox Depres				r (Explain in Remarks)
	lucky Mineral (S1) (I	DD N		se Masses (F12) (I DD N		
	147, 148)	LNN IN,	MLRA 136) (LNN N,		
	leyed Matrix (S4)			ce (F13) (MLRA	136 122)	³ Indicat	ors of hydrophytic vegetation and
	edox (S5)			odplain Soils (F1			id hydrology must be present,
	Matrix (S6)			aterial (F21) (MI			s disturbed or problematic.
	ayer (if observed)	:		atoriai (i 2 i) (i i i		1	, diotal 200 of problematic
Type: NA							
Depth (inc						Hydric Soil Pre	esent? Yes No V
Remarks:						J	
Romans.							



Upland data point wdim001_u2 facing north



Upland data point wdim001_u2 facing east



Upland data point wdim001_u2 soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim002s_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
• • •	ocal relief (concave, convex, none): <u>concave</u> Slope (%): <u>5</u>
Subregion (LRR or MLRA): LRR P Lat: 37.119233	B Long: -77.896024 Datum: NAD1983
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	
Are climatic / hydrologic conditions on the site typical for this time of y	
	/ disturbed? Are "Normal Circumstances" present? Yes V
Are Vegetation Soil , or Hydrology naturally pr	•
Are vegetation, soil, or right longy hattirally pr	oblematic: (if fleeded, explain any answers in Nemarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Vo No	la the Countled Avec
Hydric Soil Present? Yes V No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	
Remarks:	· <u> </u>
	tually will succeed to PFO wetland. Several small drainage
	ell-defined ephemeral drainage out of wetland at south edge of
ROW. Photos: 2695 through 2699 (soil, N, E, S, W).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulf	_ · · · · ·
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
<u> </u>	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	s):
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), ir available:
NA	
Remarks:	

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	10	
				That Are OBL, FACW, or FAC:	10	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	12	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	83	(A/B)
6				Durandan as Indonesialis act		
	N/A	= Total Cov	ver	Prevalence Index worksheet:	N.A. alkim la a la co	
50% of total cover: N/A	20% of	f total cover	N/A	Total % Cover of:		
Sapling Stratum (Plot size: 15 ft				OBL species x 1		
1. Quercus michauxii	5	Υ	FACW	FACW species x 2		
1. Quercus michauxii 2. Fraxinus pennsylvanica	5	Y	FACW	FAC species x 3		
3				FACU species x 4		
4			. ——	UPL species x 5		
5				Column Totals: (A)		_ (B)
5				Prevalence Index = B/A =		
0	10	= Total Cov	· ——			_
-				Hydrophytic Vegetation Indicate		
50% of total cover: 5	20% of	f total cover	: 2	1 - Rapid Test for Hydrophytic	vegetation	
Shrub Stratum (Plot size: 15 ft		.,	=.0	2 - Dominance Test is >50%		
1. Liquidambar styraciflua	10	<u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹	1	
2. Liriodenderon tulipifera	5	<u> </u>	FACU	4 - Morphological Adaptations data in Remarks or on a se	s' (Provide supp enarate sheet)	porting
3. Acer rubrum	5	<u> Y</u>	FAC	Problematic Hydrophytic Vege	•	n)
4. Vaccinium corymbosum	5	<u> Y</u>	FACW	Problematic Trydrophytic Vege	station (Expiai	11)
5. Diospyros virginiana	2	<u>N</u>	FAC	Indicators of budris sail and watts	nd budrologu n	ou et
6				¹ Indicators of hydric soil and wetla be present, unless disturbed or pro		iust
	27	= Total Cov	ver	Definitions of Five Vegetation S		
50% of total cover: <u>13.5</u>				_		
Herb Stratum (Plot size: 5 ft)		total covol		Tree – Woody plants, excluding w		in
1. Carex intumescnesce	10	Υ	FACW	approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br		
2. Carex lurida	10	Y	OBL		-	
3. Dichanthelium clandestinum	15	<u>Y</u>	FAC	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more		
4 Liquidambar styraciflua	5	N	FAC	than 3 in. (7.6 cm) DBH.	in noight and it	333
5. Microstegium vimineum	20	Y	FAC	Shrub Woody plants evaluding	woody vinos	
6. Liriodendron tulipifera	5	N	FACU	Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m)		
7. Cornus florida	3	N	FACU		•	
8. Veronia noveboracensis	4	· N	FACW	Herb – All herbaceous (non-wood) herbaceous vines, regardless of si		
g Eupatorium perfoliatum	5	- N	FACW	plants, except woody vines, less th		
<u> </u>		- <u>IN</u>	TACW	ft (1 m) in height.		
10		-		Woody vine – All woody vines, re-	gardless of hei	ght.
11	77					
		= Total Cov				
50% of total cover: <u>39</u>	20% of	f total cover	<u>: 16</u>			
Woody Vine Stratum (Plot size: 15 ft)						
1. Lonicera japonica	10		<u>FAC</u>			
2. Vitis rotundifolia	5		FAC			
3. Campsis radicans	5		FAC			
4. Smilax rotundifolia	20	Υ	FAC			
5. Rubus allegheniensis	45	Υ	FACU	I I I I I I I I I I I I I I I I I I I		
	85	= Total Cov	/er	Hydrophytic Vegetation		
50% of total cover: 43						
			. 17	Present? Yes	No	
Remarks: (Include photo numbers here or on a separate s	20% of	f total cover	. 17	Present? Yes	No	

Sampling Point: wdim002s_w

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features	5			
(inches) 0-7	Color (moist) 10 YR 3/1	100	Color (moist)	%	Type ¹	Loc ²	Texture SA/LM	Remarks fine sand and silt
		- —						
7-19	10 YR 5/1	100		<u> </u>			SA/LM	fine sand and silt
¹Tyne· C=C	oncentration, D=Dep	letion RM=	Reduced Matrix MS	S=Masked	Sand Gra	ins	²I ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		iodon, run	rtoddodd Matrix, Mc	- maskoa	Odila Ore		Indica	ators for Problematic Hydric Soils ³ :
Histosol Histic Ep Black Hi Hydroge Stratified 2 cm ML Depleted Thick Da Sandy M MLRA Sandy G Sandy G Stripped	(A1) pipedon (A2)	LRR N,	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Iron-Mangane MLRA 130 Umbric Surfa Piedmont Flo	clow Surface (S9) and Matrix (I strix (F3) Surface (F6) and Surface and Surface and Surface and Surface and Surface and Surface besions (F8) and Surface and Surface besions (F8) and Surface and Surf	(MLRA 1 F2) 6) (F7) 8) es (F12) (L MLRA 130 bils (F19)	47, 148) _RR N, 6, 122) (MLRA 14	2 148)	cm Muck (A10) (MLRA 147) oast Prairie Redox (A16) (MLRA 147, 148) iedmont Floodplain Soils (F19) (MLRA 136, 147) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) icators of hydrophytic vegetation and tland hydrology must be present, less disturbed or problematic.
Type: N								
Depth (in							Hydric Soil	Present? Yes No No
Remarks: En	ntire matrix deple	eted, no re	edox concentrat	ions.				



Wetland data point wdim002s_w facing north



Wetland data point wdim002s_w facing east



Wetland data point wdim002s_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/	2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point:	
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	
Landform (hillslope, terrace, etc.): hillslope Lo		(%): <u>25</u>
Subregion (LRR or MLRA): LRR P Lat: 37.119217	Long: -77.895698 Datum:	NAD1983
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	pes NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year		_
Are Vegetation Soil , or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes	No
Are Vegetation Soil , or Hydrology naturally pro		
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important feat	ures, etc.
Hudaanhutia Varatatian Brassat2		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No V	Is the Sampled Area within a Wetland? Yes No	
Wetland Hydrology Present?	within a wetland:	
Remarks:		
Hillslope in pine plantation above wetland wdim002. Pr	notos: 2701 through 2704 (soil N. F. S. W.)	
Timoope in pine plantation above wetland waimooz.	10103. 2701 tillough 2704 (3011, 14, L, O, VV).	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of tw	o required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	<u> </u>	rface (B8)
High Water Table (A2) Hydrogen Sulfi		
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)	
	educed Iron (C4)	
l =	eduction in Tilled Soils (C6) Crayfish Burrows (C8)	(00)
Drift Deposits (B3) Thin Muck Sur Others (Fundsia	_	ery (C9)
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Microtopographic Relief (D4)	
Aquatic Fauna (B13)	FAC-Neutral Test (D5)	
Field Observations:		
Surface Water Present? Yes No V Depth (inches	s):	
Water Table Present? Yes No V Depth (inches		
Saturation Present? Yes No V Depth (inches	· 	No 🗸
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:	
NA		
Remarks:		

Tree Stratum (Plot size: 30 ft

3. Liriodenderon tulipifera

Sapling Stratum (Plot size: 15 ft

1. Liriodendron tuliperfera

2. Liquidambar styraciflua

3. Quercus phellos

Shrub Stratum (Plot size: 15 ft 1. Vaccinium corymbosum

Liquidambar styraciflua

Herb Stratum (Plot size: 5 ft

3. Rubus allegheniensis

4. Quercus phellos

5. Quercus michauxii

1 Liquidambar styraciflua

4. Acer rubrum

2. Ulmus americana

4. Carpinus caroliniana

5. Juniperus virginiana

2. Ilex opaca

R Nι

1. Pinus taeda

2 Acer rubrum

Absolute

% Cover

35

15

5

50% of total cover: 27.5 20% of total cover: 11

5

5

50% of total cover: 12.5 20% of total cover: 5

50% of total cover: 25

50% of total cover: _8

20

5

Species?

Υ

Ν

= Total Cover

= Total Cover

Ν

Υ

Ν

20% of total cover: 10

Ν

Ν

Ν

16 ___ = Total Cover

___ 20% of total cover: 3.2

_ = Total Cover

FAC

FAC

FAC

FAC

FAC

FAC

FAC

FACU

FAC

FAC

Sampling Point: wdim002_u Dominant Indicator Dominance Test worksheet: Status **Number of Dominant Species** 10 That Are OBL, FACW, or FAC: **Total Number of Dominant FACU** 12 ___ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: **OBL** species _____ x 1 =____ FACW species _____ x 2 =____ **FACU** ____ x 3 =____ FAC species FACU species _____ x 4 =____ UPL species x 5 = Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% FACW 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting **FACW** data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). **FACU** Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. **FACU FACW** Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height.

Woody Vine Stratum (Plot size: 30 ft)							
1. Campsis radicans	1	N	FAC				
2. Parthenocissus quinquefolia	1	N	FAC				
3. Vitis rotundifolia	1	N	FAC				
4. Lonicera japonica	5	Υ	FAC				
5	_			Hydrophytic			
	8	= Total Co	ver	Vegetation			
50% of total cover: 4 20% of total cover: 1.6 Present? Yes No No							
Remarks: (Include photo numbers here or on a separate	sheet.)						
Numerous grasses, no fruits; 10% no ID.							

Sampling Point: wdim002_u

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features	;			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8	10 YR 5/3	98					SA/LM	fine sand
8-11	10 YR 5/4	40					SA/LM	mix of soil colors
11-17	10YR 5/8	95					SA/CL	
	10111 0/0		-					
		-						
								
1Type: C-Co	ncentration D-Der	letion RM-	Reduced Matrix, MS		Sand Gra	ine	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		iletion, Rivi=	neduced Mairix, M.)=IVId5KEU	Saliu Gla	11115.		ators for Problematic Hydric Soils ³ :
Histosol			■ Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		e (S8) (M	I RA 147		Coast Prairie Redox (A16)
Black His	•		Thin Dark Su					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			, -,	☐ F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma					(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F	6)			ery Shallow Dark Surface (TF12)
Depleted	l Below Dark Surfac	e (A11)	Depleted Dai					Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	∟RR N,	☐ Iron-Mangan		es (F12) (I	_RR N,		
	147, 148)		MLRA 13				3.	
	leyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	edox (S5) Matrix (S6)		☐ Piedmont Flo					etland hydrology must be present, less disturbed or problematic.
	ayer (if observed)		Red Parent i	/laterial (F2	21) (IVILKA	4 127, 147	7) un	liess disturbed or problematic.
Type: NA		•						
j. <u>—</u>								Present? Yes No No
Depth (inc	ines):						Hydric Soil	Present? Yes No
Remarks: Mi	d laver a mix of	5% 10YF	R 4/4, 20% 10 YI	R 5/6. an	nd 15%	10 YR 8	/1 (nearly w	hite)
			,	,			()	,



Upland data point wdim002_u facing north



Upland data point wdim002_u facing east



Upland data point wdim002_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim003e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): toe of slopes/floodplain Lo	ical relief (concave, convex, none): concave Slope (%): 10
Subregion (LRR or MLRA): LRR P Lat: 37.119110	
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes NWI classification: PEM1C
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil , or Hydrology significantly	
Are Vegetation Soil , or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	William d Wolldard . 1995 No
Remarks:	
	meral drainages (sdim003 & 004) within an active cattle pasture.
, , ,	nel sdim003 with upland soils mapped within this complex.
Photos: 2706 through 2710 (soil, N, E, S, W).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulfi	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
<u> </u>	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
NA	
Remarks:	

Sampling Point: wdim003e_w

	Absolute	Dominar	nt Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft)			? Status	Number of Dominant Species	
1. N/A				That Are OBL, FACW, or FAC: 3	(A)
2					
3				Total Number of Dominant Species Across All Strata: 30	(D)
				Species Across All Strata: 30	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	(A/B)
6				Prevalence Index worksheet:	
	N/A	= Total Co	over		
50% of total cover: N/A	20% o	f total cove	er· N/A	Total % Cover of: Multip	
Sapling Stratum (Plot size: 15 ft)		i total cove	Jr	OBL species x 1 =	
1. N/A				FACW species x 2 =	
				FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4					
5				Column Totals: (A)	(B)
6				Prevalence Index = B/A =	
<u> </u>	N/A	= Total Co		1	
				Hydrophytic Vegetation Indicators:	
50% of total cover: N/A	20% o	f total cove	er: N/A	1 - Rapid Test for Hydrophytic Vege	tation
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50%	
1. N/A				3 - Prevalence Index is ≤3.0 ¹	
2				4 - Morphological Adaptations ¹ (Pro	vide supporting
				data in Remarks or on a separate	e sheet)
3				Problematic Hydrophytic Vegetation	¹ (Explain)
4					
5				¹ Indicators of hydric soil and wetland hyd	trology must
6				be present, unless disturbed or problems	atic.
	N/A	= Total Co	over	D. California (Fig. Wasseleller Charle	
				Definitions of Five Vegetation Strata:	
50% of total cover: N/A				Definitions of Five Vegetation Strata:	
50% of total cover: N/A				Tree – Woody plants, excluding woody v	
Herb Stratum (Plot size: 5 ft)	20% o	f total cove	er: N/A	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heigh	tht and 3 in.
Herb Stratum (Plot size: 5 ft) 1. Juncus effusus	20% o	f total cove	er: N/A FACW	Tree – Woody plants, excluding woody v	tht and 3 in.
Herb Stratum (Plot size: 5 ft) 1. Juncus effusus 2. Persicaria hydropiper	20% or	f total cove	FACW OBL	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heic (7.6 cm) or larger in diameter at breast h	ght and 3 in. leight (DBH). dy vines,
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium	19 3 2	Y N N	FACW OBL FACU	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in height	ght and 3 in. leight (DBH). dy vines,
Herb Stratum (Plot size: 5 ft) 1. Juncus effusus 2. Persicaria hydropiper	20% or	f total cove	FACW OBL	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heic (7.6 cm) or larger in diameter at breast h	ght and 3 in. leight (DBH). dy vines,
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium	19 3 2	Y N N	FACW OBL FACU	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast has Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.	ght and 3 in. eight (DBH). dy vines, ght and less
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum	19 3 2 2 3	f total cove	FACW OBL FACU FACU FACW FACW	Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in height	ght and 3 in. eight (DBH). dy vines, ght and less vines,
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp.	19 3 2 2 2 3 10	f total cove Y N N N N N N N N N N N N N N N N N N	FACW OBL FACU FACU FACW FACW FACW	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heig than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heig	ght and 3 in. eight (DBH). dy vines, ght and less y vines, ght.
Herb Stratum (Plot size: 5 ft 1 Juncus effusus 2 Persicaria hydropiper 3 Eupatorium capillifolium 4 Solanum carolinense 5 Eupatorium perfoliatum 6 Eleocharis spp. 7 Persicaria sagittata	19 3 2 2 3 10 3	Y N N N N N	FACU FACU FACU FACU FACU FACU OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heightan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heightan 4 miles (10 m).	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus	19 3 2 2 3 10 3 20	Y N N N N N N N Y	FACU FACU FACU FACU FACU FACU FACU FACW FAC OBL FACW	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heig than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigh therb – All herbaceous (non-woody) plants herbaceous vines, regardless of size, and	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody
Herb Stratum (Plot size: 5 ft 1 Juncus effusus 2 Persicaria hydropiper 3 Eupatorium capillifolium 4 Solanum carolinense 5 Eupatorium perfoliatum 6 Eleocharis spp. 7 Persicaria sagittata 8 Cyperus strigosus 9 Xanthium strumarium	19 3 2 2 3 10 3 20 3	Y N N N N N N N N N N N N N N N N N N N	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heightan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heightan 4 miles (10 m).	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus	19 3 2 2 3 10 3 20	Y N N N N N N N Y	FACU FACU FACU FACU FACU FACU FACU FACW FAC OBL FACW	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1 Juncus effusus 2 Persicaria hydropiper 3 Eupatorium capillifolium 4 Solanum carolinense 5 Eupatorium perfoliatum 6 Eleocharis spp. 7 Persicaria sagittata 8 Cyperus strigosus 9 Xanthium strumarium	19 3 2 2 3 10 3 20 3	Y N N N N N N N N N N N N N N N N N N N	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heig than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, an plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, an plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, an plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, an plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, an plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in heigh therbaceous vines, regardless of size, and therbaceous vines, regardless of size, and therbaceous vi	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis	19 3 2 2 3 10 3 20 3 30	Y N N N N N N N N N N N N N N N N N N N	FACW OBL FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC FAC FAC	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1 Juncus effusus 2 Persicaria hydropiper 3 Eupatorium capillifolium 4 Solanum carolinense 5 Eupatorium perfoliatum 6 Eleocharis spp. 7 Persicaria sagittata 8 Cyperus strigosus 9 Xanthium strumarium 10 Commelina communis	19 3 2 2 3 10 3 20 3 30	Y N N N N N N Y N Y Total Co	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48	19 3 2 2 3 10 3 20 3 30	Y N N N N N N Y N Y Total Co	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft	19 3 2 2 3 10 3 20 3 30	Y N N N N N N Y N Y Total Co	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48	20% of 19	Y N N N N N N Y N Y Total Co	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than applications of the state of	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1 Juncus effusus 2 Persicaria hydropiper 3 Eupatorium capillifolium 4 Solanum carolinense 5 Eupatorium perfoliatum 6 Eleocharis spp. 7 Persicaria sagittata 8 Cyperus strigosus 9 Xanthium strumarium 10 Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft 1 N/A	20% of 19	Y N N N N N Y N Y Total Cove	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than apft (1 m) in height.	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft 1. N/A 2.	20% of 19	Y N N N N N Y T T Total Co	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than apft (1 m) in height.	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2. 3.	20% of 19	Y N N N N N Y T Total Cove	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than apft (1 m) in height.	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft 1. N/A 2.	20% of 19	Y N N N N N Y T Total Cove	FACW OBL FACU FACU FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC OBL	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding wood approximately 3 to 20 ft (1 to 6 m) in heightharmore All herbaceous (non-woody) plant herbaceous vines, regardless of size, and plants, except woody vines, less than apft (1 m) in height.	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2. 3.	20% of 19 3 2 2 3 10 3 20 3 30 95 20% of 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Y N N N N N Y T T T T T T T T T T T T T	FACW OBL FACU FACU FAC OBL FACW FACW FAC OBL FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigther herbaceous vines, regardless of size, an plants, except woody vines, less than apft (1 m) in height. Woody vine – All woody vines, regardle	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2. 3.	20% of 19 3 2 2 3 10 3 20 3 30 95 20% of 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Y N N N N N Y T Total Cove	FACW OBL FACU FACU FAC OBL FACW FACW FAC OBL FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigther herbaceous vines, regardless of size, an plants, except woody vines, less than apft (1 m) in height. Woody vine – All woody vines, regardle	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2. 3.	20% of 19	Y N N N N N Y T Total Cove	FACW OBL FACU FACU FACW OBL FACW FAC OBL FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC FAC OBL FACW FAC FAC OBL FACW FAC FAC OVER OVER OVER OVER OVER OVER OVER OVER	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigther herbaceous vines, regardless of size, an plants, except woody vines, less than apft (1 m) in height. Woody vine – All woody vines, regardle	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3
Herb Stratum (Plot size: 5 ft 1. Juncus effusus 2. Persicaria hydropiper 3. Eupatorium capillifolium 4. Solanum carolinense 5. Eupatorium perfoliatum 6. Eleocharis spp. 7. Persicaria sagittata 8. Cyperus strigosus 9. Xanthium strumarium 10. Commelina communis 11. 50% of total cover: 48 Woody Vine Stratum (Plot size: 30 ft 1. N/A 2. 3. 4. 5.	20% of 19	Y N N N N N Y T Total Cove	FACW OBL FACU FACU FACW OBL FACW FAC OBL FACW FAC OBL FACW FAC OBL FACW FAC FAC OBL FACW FAC FAC OBL FACW FAC FAC OBL FACW FAC FAC OVER OVER OVER OVER OVER OVER OVER OVER	Tree – Woody plants, excluding woody approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigthan 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heigther herbaceous vines, regardless of size, an plants, except woody vines, less than apft (1 m) in height. Woody vine – All woody vines, regardle	ght and 3 in. eight (DBH). dy vines, ght and less vines, ght. ats, including d woody proximately 3

Sampling Point: wdim003e_w

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature:	S			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-3	10 YR 4/1	80	10 YR 5/8	20	<u>C</u>	PL/M	LM	
3-10	10 YR 5/1	65	10 YR 5/6	35	С	PL/M	CL/LM	
		- ——						
					•			
1 _{Typo} , C. C	ncontration D Don	lotion DM	Poducod Matrix MS	· Mackac	L Cond Cr	nine	² Location, DI	Doro Lining M. Motriy
Hydric Soil		ietion, Rivi	=Reduced Matrix, MS	s=iviasked	Sand Gr	ains.	Location: Pi	L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
<u> </u>			Dowl. Comford	(0.7)				9
Histosol			Dark Surface		oo (CO) (N	NI DA 147		cm Muck (A10) (MLRA 147)
☐ Black Hi	oipedon (A2)		Polyvalue Be Thin Dark Su				148) C	oast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)	Пь	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		1 2)			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		·6)		Пν	ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar					other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre					,
_	lucky Mineral (S1) (I	LRR N,	Iron-Mangan			LRR N,		
-	A 147, 148)		MLRA 13					
Sandy G	Sleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
☐ Sandy R	tedox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	') unl	less disturbed or problematic.
	_ayer (if observed)	:						
Type: <u>N/</u>	4							
Depth (ind	ches):						Hydric Soil	Present? Yes Vo No
Remarks:							1	
So	oils mixed from o	attle imp	acts in many are	as.				



Wetland data point wdim003e_w facing south



Wetland data point wdim003e_w facing west



Wetland data point wdim003e_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim003_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	ocal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.11918	
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
	y disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation Soil , or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	· ·······
Remarks:	
Hillslope in active pasture above floodplain wetland wdi	im003. Vegetation heavily grazed. Photos: 2712 through 2716
(soil, N, E, S, W).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
Hydrogen Sulf	<u> </u>
Saturation (A3) Oxidized Rhize	ospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4)	_
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	, <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	
I and the second	

Sampling Point: wdim003_u Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30 ft) % Cover Species? Status **Number of Dominant Species** 1. N/A That Are OBL, FACW, or FAC: Total Number of Dominant 5 ____ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: N/A = Total Cover Total % Cover of: Multiply by: 50% of total cover: N/A 20% of total cover: N/A OBL species _____ x 1 =____ Sapling Stratum (Plot size: 15 ft) FACW species _____ x 2 =____ 1. N/A x 3 =____ FAC species FACU species _____ x 4 =____ UPL species _____ x 5 =____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = N/A = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: N/A 20% of total cover: N/A Shrub Stratum (Plot size: 15 ft 2 - Dominance Test is >50% 1. N/A 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. N/A = Total Cover Definitions of Five Vegetation Strata: __ 20% of total cover: N/A 50% of total cover: N/A Tree – Woody plants, excluding woody vines, Herb Stratum (Plot size: 5 ft) approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 1. Kyllinga gracillima **FACU** 2 Xanthium strumarium Ν **FAC** Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3 Ambrosia artemesifolia **FACU** 4. Tridens flavus **FACU** 5. Setaria pumila 10 **FAC Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. Digitaria sanguinalis **FACU** 7. Plantago major **FACU** Ν Herb - All herbaceous (non-woody) plants, including 8. Eupatorium capillifolium herbaceous vines, regardless of size, and woody **FACU** plants, except woody vines, less than approximately 3 9. Trifolium repens **FACU** ft (1 m) in height. _{10.} Eleusine indica **FACU** Woody vine – All woody vines, regardless of height. 11. Solanum carolinense Ν **FACU** 86 = Total Cover 50% of total cover: 43 __ 20% of total cover: 18 Woody Vine Stratum (Plot size: 30 ft) 1. N/A Hydrophytic N/A = Total Cover Vegetation Present?

20% of total cover: N/A

Remarks: (Include photo numbers here or on a separate sheet.) Numerous pasture grasses, heavily grazed, no fruits; 30% no ID.

50% of total cover: N/A

Sampling Point: wdim003_u

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the ind	dicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0-10	10 YR 4/3	98					SA/M	fine sand
10-13	10 YR 5/4	98					SA/LM	fine sand
	-	- ——		—				
		- ——						
¹ Type: C=C	oncentration D=Der	letion RM=	Reduced Matrix, MS		Sand Gra	nins	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		JIOCIOTI, TTIVI-	-rtoddcod Matrix, Mc	- Maskoa c	Jana Orc			ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
=	oipedon (A2)		Polyvalue Be		e (S8) (M	I RA 147		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			.,,,	□Р	Piedmont Floodplain Soils (F19)
_ , ,	d Layers (A5)		Depleted Mat		_,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S)		□v	'ery Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfac	e (A11)	Depleted Dar	k Surface (F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)				·
Sandy N	Mucky Mineral (S1) (LRR N,	☐ Iron-Mangan	ese Masses	s (F12) (L	_RR N,		
	A 147, 148)		MLRA 130	6)				
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6)		Red Parent N	1aterial (F2°	1) (MLR /	4 127, 147	') un	less disturbed or problematic.
	Layer (if observed)							
Туре: <u>N</u> .	<u> </u>							
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:	d 9	- - 4 -			-14	0.11	1	
LC	bose, ary solis; u	inable to	retrieve plug of n	nateriai b	elow 1	3		



Upland data point wdim003_u facing north



Upland data point wdim003_u facing east



Upland data point wdim003_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/2/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim004e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	ical relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.118449	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	pes NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology naturally pr	•
	, ,
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hadarda da Varanda a Barraria	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	within a wettand: Tes No No
Remarks:	
	hydrologic flow, but not consistent/channelized enough to
delineate as ephemenral stream. Photos: 2732 through	
3	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	_ ' ' '
High Water Table (A2) Hydrogen Sulfi Saturation (A3) Oxidized Rhize	ide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B16) Drainage Patterns (B16)
1 	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Sur	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches	Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os pravious inspections) if available:
NA	ээ, ргелюцэ шэресцонэ), ш аланаыге.
Remarks:	
Tromains.	
I .	

	Abaduta	Dominant	Indicator	Dominanaa Taat warkshaat
Tree Stratum (Plot size: 30 ft)		Dominant Species?		Dominance Test worksheet:
1. Pinus taeda	10	Y	FAC	Number of Dominant Species
				That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 67 (B)
				(b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 83 (A/B)
6				
	10	= Total Cov	er	Prevalence Index worksheet:
F				Total % Cover of: Multiply by:
50% of total cover: 5	20% of	total cover:	2	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)				
A NI/Δ				FACW species x 2 =
				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				
				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	N/A	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: N/A				1 - Rapid Test for Hydrophytic Vegetation
· · · · · · · · · · · · · · · · · · ·	20% of	total cover:	11//	
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50%
1. Fraxinus pennsylvanica	10	Υ	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Liriodenderon tulipifera	10	Y	FACU	4 - Morphological Adaptations ¹ (Provide supporting
	5	N	FAC	data in Remarks or on a separate sheet)
3. Diospyros virginiana	<u> </u>	<u> </u>	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
4				Problematic Trydrophytic Vegetation (Explain)
5				
				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	35			
		Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 18			_	Definitions of Five Vegetation Strata:
_		total cover:	_	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of		7	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
_	20% of		_	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft _{1.} Agrimony parviflora	20% of		7	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica	20% of 15	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta	20% of 15 15 70	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica	20% of 15	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta	20% of 15 15 70	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	total cover:	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y	FACW FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 140	Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 140	Y Y	FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y = Total Cover:	FACW FACW FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y = Total Cover:	FACW FACW FAC FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 140 20% of 20	Y Y Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 140 20% of 20	Y Y Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Y Y = Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 20% of	Y Y = Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 20% of	Y Y = Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 ————————————————————————————————	Y Y Y = Total Cover: Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 ————————————————————————————————	Y Y = Total Cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40	Total Cover: Y Y Y = Total Cover: Y Total Cover:	FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 20% of 20 20% of	Y Y Y = Total Cover: Y	FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Agrimony parviflora 2. Boehmeria cylindrica 3. Persicaria longiseta 4. Microstegium vimineum 5	20% of 15 15 70 40 140 20% of 20 200 heet.)	Total Cover: Y Y Y = Total Cover: Y = Total Cover: Y total cover:	FACW FACW FACW FACC PACW FACC PACW FACC PACW FACC PACW PACW PACW PACW PACW PACW PACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No No

Sampling Point: wdim004e_w

Profile Desc	cription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches) 0-5	Color (moist) 10 YR 3/2	% 98	Color (moist)	%	Type ¹	Loc ²	Texture LM	Remarks
5-14	10 YR 5/2	40	10 YR 5/6	35	C	PL/M	SA/LM	Divided Matrix
5-14	10 YR 5/3	10					SA/LM	Divided Matrix
						<u> </u>		
		oletion, RM	=Reduced Matrix, MS	S=Maske		ains.		L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratified 2 cm Mt Deplete Thick Da Sandy M MLRA Sandy C	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) (I A 147, 148) Gleyed Matrix (S4) Redox (S5)		Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mal Redox Dark S Depleted Dar Redox Depre Iron-Mangane MLRA 13	clow Surface (S9 and Matrix (F3) Surface (Inc. Surface (In	(F2) (MLRA 1 (F2) (F6) (E) (F7) (E) (F8) (MLRA 13)	47, 148) LRR N, 6, 122)	148)	cm Muck (A10) (MLRA 147) coast Prairie Redox (A16) (MLRA 147, 148) riedmont Floodplain Soils (F19) (MLRA 136, 147) rery Shallow Dark Surface (TF12) other (Explain in Remarks) ricators of hydrophytic vegetation and retland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	Layer (if observed)	:	nod r drone n	natoriai (i	Z I / (WILIT		T	ioss distarbed or problematic.
Туре: <u>N</u> .	Α							
Depth (in	ches):						Hydric Soil	Present? Yes No No
Remarks: Fi	ne sand.							



Wetland data point wdim004e_w facing north



Wetland data point wdim004e_w facing west



Wetland data point wdim004e_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty	Sampling Date: <u>9/2/2014</u>
Applicant/Owner: Dominion Transmission	State: VA	Sampling Point: wdim004_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	- 1 0
9	ocal relief (concave, convex, none): <u>concave</u>	Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.118382	Long: -77.885883	Datum: NAD1983
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	pes NWI classificat	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of ye		marks.)
Are Vegetation Soil , or Hydrology significantly	y disturbed? Are "Normal Circumstances" pre	esent? 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 Vagatation Present?		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No V	Is the Sampled Area within a Wetland? Yes	No 🔽
Wetland Hydrology Present?	. Within a wettand: Tes	_ NO <u> </u>
Remarks:	·	
Hillslope above swale terrene wetland wdim001. Photo	os: 2738 through 2742 (soil N F S W)	
Thistope above swale terrefic wetland waimoot. Thote	73. 27 30 tillough 27 42 (3011, 14, E, G, W).	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicato	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil C	racks (B6)
Surface Water (A1)	<u>—</u> :	etated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf		
<u> </u>	ospheres on Living Roots (C3) Moss Trim Line	
		/ater Table (C2)
l =	eduction in Tilled Soils (C6) Crayfish Burro	
Drift Deposits (B3) Thin Muck Sur Other (Fundamental Park)		ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic P	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquita	
Water-Stained Leaves (B9)	☐ Microtopograp	
Aquatic Fauna (B13)	FAC-Neutral T	
Field Observations:		
Surface Water Present? Yes No Depth (inches	s):	
Water Table Present? Yes No Depth (inches		
Saturation Present? Yes No Depth (inches		? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:	
NA		
Remarks:		

Absolute Dominant Indicator Species Status

Of Cover Species Status

Dominance Test worksheet:

Tree Stratum (Plot size: 30 ft	Absolute % Cover	Dominant Species 2		Dominance Test worksheet:
1. Liriodendron tuliperfera	45	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. Liquidambar styraciflua	35	<u>'</u>	FAC	That Are OBL, FACW, or FAC: 6 (A)
3. Pinus taeda	20	<u>.</u> N	FAC	Total Number of Dominant
4. Asimina triloba	5	<u>N</u>	FAC	Species Across All Strata: 11 (B)
			170	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 46 (A/E
6	405			Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: <u>53</u>	20% of	total cover:	21	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)				FACW species x 2 =
1. Liriodendron tuliperfera	25	<u> Y </u>	FACU	FAC species x 3 =
2. Liquidambar styraciflua	20	<u>Y</u>	FAC	FACU species x 4 =
3. Quercus alba	15	<u>N</u>	FACU	UPL species x 5 =
4. Quercus phellos	5	<u>N</u>	FACU	Column Totals: (A) (B)
5. Asimina triloba	15	<u>N</u>	FAC	Column rotals(A)(B)
6				Prevalence Index = B/A =
	80	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: 40	20% of	total cover:	16	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50%
1. Ulmus americana	20	Υ	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	5	N	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. Liquidambar styraciflua	15	Y	FAC	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	40	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 20				Definitions of Five Vegetation Strata:
F 44	20% 01	total cover:	<u> </u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 π) 1. Liriodendron tuliperfera	1	Υ	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Liriodendron tuliperfera Liquidambar styraciflua		<u>'</u>	FAC	
3. Vaccinium angustifolium	1	<u> </u>	FACU	Sapling – Woody plants, excluding woody vines,
		· -'	1 700	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4		· ——		Short Washington and discount desires
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11	3			
		= Total Cov		
50% of total cover: 2	20% of	total cover:	1	
Woody Vine Stratum (Plot size: 30 ft)	0	V	E40	
1. Vitis rotundifolia	$\frac{3}{3}$	· Y	FAC	
2. Toxicodendron radicans	· 	· <u> </u>	FACU	
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation No.
		total cover:	2	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Sampling Point: wdim004_u

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	
0-5 10 YR 5/4 98 LM	
5-18 10 YR 5/8 98 SA/LM fine sand	
	,
·	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric Soil Indicators	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA	
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)	
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148)	
☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2) ☐ Piedmont Floodplain Soils	(F19)
☐ Stratified Layers (A5) ☐ Depleted Matrix (F3) (MLRA 136, 147)	(* 15)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface	e (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks	
☐ Thick Dark Surface (A12) ☐ Redox Depressions (F8)	
☐ Sandy Mucky Mineral (S1) (LRR N, ☐ Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic veg	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problem	atic.
Restrictive Layer (if observed):	
Type: NA	
Depth (inches): Hydric Soil Present? Yes	No L
Remarks:	



Upland data point wdim004_u facing south



Upland data point wdim004_u facing west



Upland data point wdim004_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim005s_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	ocal relief (concave, convex, none): concave Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.117600	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation, Soil, or Hydrology naturally pr	•
, , , , , , , , , , , , , , , , , , ,	, ,
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hudanahatia Vanatatian Brasanta	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	. Within a wettand: Tes NO
Remarks:	•
	nd at toe of opposing slopes E (35%), W (25%). Photos: 2759
through 2763 (soil, N, E, S, W).	
LIMPROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<u> </u>
Surface Water (A1) True Aquatic F	_ ` * *
High Water Table (A2) Hydrogen Sulf	
I 	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4)
Sediment Deposits (B2) ☐ Recent Iron Recent Iron Recent Iron Recent Iron Recent Iron Recent Iron Muck Sur ✓ Drift Deposits (B3) ☐ Thin Muck Sur	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

Sampling Point: wdim005s_w

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft 1. N/A	% Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A	۸)
2				Total Number of Dominant Species Across All Strata: 7 (B	3)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 86 (A	VB)
6					v D)
	N/A	= Total Cov	er	Prevalence Index worksheet:	
50% of total cover: N/A				Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 15 ft)		total covor.		OBL species x 1 =	
1. Liriodenderon tulipifera	30	Υ	FACU	FACW species x 2 =	
2 Ulmus americana	25	Y	FACW	FAC species x 3 =	
3				FACU species x 4 =	
4				UPL species x 5 =	
5				Column Totals: (A) ((B)
6				Prevalence Index = B/A =	
	55	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: <u>28</u>	20% of	total cover:	11	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%	
1. Lindera benzoin	35	Υ	FACW	3 - Prevalence Index is ≤3.0 ¹	
2				4 - Morphological Adaptations ¹ (Provide support	ting
3				data in Remarks or on a separate sheet)	
4				Problematic Hydrophytic Vegetation ¹ (Explain)	
5					
6.				¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	st
	35	Total Cov	er	i i	
500/ - () -				Definitions of Five Vegetation Strata:	
50% of total cover: 18	20% of	total cover:		Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft)	20	V	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)	
1. Athryium asplenoides	20	$\frac{Y}{Y}$	FAC	(7.6 cm) or larger in diameter at breast neight (DBH)).
2. Leersia virginica	15		FACW	Sapling – Woody plants, excluding woody vines,	
3. Onoclea sensibilis	10	<u>N</u>	FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
4. Boehmeria cylindrica	10	N	FACW		
_{5.} Carex frankii	5	<u>N</u>	OBL	Shrub – Woody plants, excluding woody vines,	
6. Athryium asplenoides	20			1	
	20	<u>Y</u>	FAC	approximately 3 to 20 ft (1 to 6 m) in height.	
7		<u>Y</u>	FAC	Herb – All herbaceous (non-woody) plants, including	g
7		Y	FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	0
		<u>Y</u>	FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	0
9		Y 	FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
		Y 	FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	, 3
9		Y ————————————————————————————————————		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9		= Total Cov	er	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of	= Total Cov total cover:	er 13	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of	= Total Cov total cover:	er 13 FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of 25 10	= Total Cov total cover:	er 13 FAC FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of	= Total Cov total cover:	er 13 FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of 25 10	= Total Cov total cover:	er 13 FAC FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	, 3
9	63 20% of 25 10	= Total Cov total cover:	er 13 FAC FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of height	, 3
9	63 20% of 25 10 5	= Total Cov total cover:	er 13 FAC FAC FAC	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of height Hydrophytic	, 3
9	63 20% of 25 10 5	= Total Cov total cover: Y Y N	er 13 FAC FAC FAC er	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of height	, 3
9	63 20% of 25 10 5 40 20% of	= Total Cover: Y Y N = Total Cover:	er 13 FAC FAC FAC er	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of height Hydrophytic Vegetation	, 3

Sampling Point: wdim005s_w

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	<u>Remarks</u>
0-5	10 YR 3/2	100					SI/LM	
5-11	10 YR 4/3	70	10 YR 5/8	25	С	PL/M	LM	
11-16	10YR 4/1	55	10 YR 5/8	35	С	PL/M	LM	Divided Matrix
11-16	10YR 4/3	10					LM	Divided Matrix
								-
¹Type: C=Co	ncentration. D=Den	letion. RM:	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		notion, run	Troducod Wattix, We	, maskot	a dana di	anio.		ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		re (S8) (N	/II RΔ 147		coast Prairie Redox (A16)
Black His	•		Thin Dark Su				140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			147, 140)	₽	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		(1 2)		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		-6)		Пν	ery Shallow Dark Surface (TF12)
	l Below Dark Surfac	e (A11)	Depleted Dar					Other (Explain in Remarks)
	rk Surface (A12)	,	Redox Depre					,
	lucky Mineral (S1) (I	_RR N.	Iron-Mangan			LRR N.		
_	147, 148)	,	MLRA 13			,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: NA								
J. —	ches):						Hydric Soil	Present? Yes No No
Remarks:							1	



Wetland data point wdim005s_w facing north



Wetland data point wdim005s_w facing east



Wetland data point wdim005s_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim005_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	Local relief (concave, convex, none): concave Slope (%): 35
Subregion (LRR or MLRA): LRR P Lat: 37.11775	59 Long: -77.884353 Datum: NAD1983
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent sl	lopes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation Soil , or Hydrology significan	itly disturbed? Are "Normal Circumstances" present? Yes No No
Are Vegetation Soil , or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
, 	
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc
Hudsonbudio Vancatation Presenta	7
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Yes No V	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	Tes No
Remarks:	J-
On hillslope above wetland wdim005 and stream (sdir	m005). Photos: 2766 through 2770 (soil, N, E, S, W).
· · ·	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	y) Surface Soil Cracks (B6)
	: Plants (B14)
	ulfide Odor (C1) Drainage Patterns (B10)
<u> </u>	izospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2)
l =	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck S Other (D4)	
Algal Mat or Crust (B4) Union Deposits (B5)	in in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	☐ Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es):
	es):
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	, <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
NA	
Remarks:	

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

Sampling Point: wdim005_u Absolute Dominant Indicator Cover Species? Status Dominance Test worksheet:

Tree Stratum (Plot size: 30 ft)			Ctotus	Dominance rest worksneet.
1. Liriodendron tuliperfera	85	Species' Y	FACU	Number of Dominant Species
•		· 		That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
	85	= Total Co	ver	
50% of total cover: 43	20% of	total cove	r. 17	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft	2070 01	total covo		OBL species x 1 =
1 Liquidambar styraciflua	2	V		FACW species x 2 =
1. Liquidambar styraciflua	3	· <u> </u>	FAC	FAC species x 3 =
2. Liriodenderon tulipifera	3	<u>Y</u>	FACU	FACU species x 4 =
3				
4				UPL species x 5 =
				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	6	= Total Co	ver	Hydrophytic Vegetation Indicators:
50% of total cover: 3				1 - Rapid Test for Hydrophytic Vegetation
	20% 01	total cove	:: <u>-</u>	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft				l ==
1. N/A				3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations (Provide supporting
3				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	N/A	= Total Co	ver	Definitions of Five Vegetation Strata:
NI/A				Definitions of Five vegetation strata.
			NI/A	
50% of total cover: N/A	20% of	total cove	r: <u>N/A</u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides	5	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2	5	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2	5	<u>Y</u>	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10.	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Polystichium acrostichoides 2	5	Y = Total Co	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3	5	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2	5	Y = Total Co	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3	5	Y = Total Co	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2	5 5 20% of	= Total Co	FACU FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans	5 5 20% of 45 40	= Total Co	FACU FACU FAC FAC FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica	5 5 5 20% of 45 40 20	= Total Cove	FACU Ver FAC FAC FAC FAC FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans	5 5 20% of 45 40	= Total Co	FACU FACU FAC FAC FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica	5 5 20% of 45 40 20 10	= Total Cove	FACU Ver FAC FAC FAC FAC FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica	5 5 5 20% of 45 40 20 10	= Total Cove	FACU FAC FAC FAC FAC FAC FAC FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica 4. Smilax rotundifolia 5. 5 ft 1. Polystichium (Plot size: 5 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica 4. Smilax rotundifolia 5. 5 ft 1. Polystichium acrostichoides 2. 5 ft 1. Polystichium acrostichoi	5 20% of 45 40 20 10	= Total Cove Y N N = Total Cove	FACU Ver FAC FAC FAC FAC FAC FAC FAC FA	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Polystichium acrostichoides 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 3 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. Campsis radicans 3. Lonicera japonica	5 5 20% of 45 40 20 10 115 20% of	= Total Co	FACU Ver FAC FAC FAC FAC FAC FAC FAC FA	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation

Sampling Point: wdim005_u

Profile Desc	cription: (Describe	to the dept	h needed to docun	nent the in	dicator o	or confirm	the absence	of indicators.)
Depth	Matrix	 .		x Features	_ 1			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0-5	10 YR 4/2	100					LM	
5-17	10 YR 5/4	100					LM	
		- ——						
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked S	Sand Gra	ins.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil			,					tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			□ 2 0	cm Muck (A10) (MLRA 147)
=	oipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,		past Prairie Redox (A16)
	stic (A3)		Thin Dark Su				, _	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				☐ Pi	edmont Floodplain Soils (F19)
☐ Stratified	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S					ery Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfac	e (A11)	Depleted Dar				☐ Ot	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (LRR N,	☐ Iron-Mangan		s (F12) (L	_RR N,		
	A 147, 148)		MLRA 13				2	
	Sleyed Matrix (S4)		Umbric Surfa					cators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					land hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	1) (MLR	4 127, 147	') unle	ess disturbed or problematic.
	Layer (if observed)							
Type: N							111.5. 011	, , , , , , , , , , , , , , , , , , ,
	ches):		<u> </u>				Hydric Soil	Present? Yes No
Remarks:								



Upland data point wdim005_u facing north



Upland data point wdim005_u facing east



Upland data point wdim005_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim006f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 6
Subregion (LRR or MLRA): LRR P Lat: 37.11560	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent sle	ppes NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	
	ly disturbed? Are "Normal Circumstances" present? Yes No
	oroblematic? (If needed, explain any answers in Remarks.)
	•
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hudsonbutio Vanstation Present2	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Hydric Soil Present? Wetland Hydrology Present? Yes No	Within a wettand: res No
Remarks:	<u>-</u>
	ms (sdim006 through sdim010) below a pond. Some evidence of
past disturbance, berms, rutting. Some small upland in	nclusions included in complex. Falls within area of opposing
slopes E (20%), W (30%). Photos: 2796 and 2804 three	ough 2807(soil, N, E, S, W).
LIMADOL COM	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) True Aquatic	<u> </u>
	Ifide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10)
<u> </u>	zospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2) Organization in Tilled Scile (CC)
Sediment Deposits (B2) Drift Deposits (B3) Recent Iron F Thin Muck Su	Reduction in Tilled Soils (C6) Urface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es):
Water Table Present? Yes No Depth (inche	es):
Saturation Present? Yes No Depth (inche	1 1 1 1
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	
NA	itos, previous inspections), ii available.
Remarks:	
nemarks.	
I .	

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Liriodenderon tulipifera	30	Y	FACU	That Are OBL, FACW, or FAC: 10 (A)
_{2.} Liquidambar syraciflua	15	<u>Y</u>	FAC	Total Number of Dominant
3. Cornus florida	5	N	FACU	Species Across All Strata: 12 (B)
4. Ulmus americana	5	N	FACW	Bassart of Bassis and Cassis
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)
6				(VB)
	55	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 28	20% of			Total % Cover of: Multiply by:
	20% 01	total cover		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)	40	V	FAC	FACW species x 2 =
1. Carpinus caroliniana	40	$\frac{Y}{Y}$		FAC species x 3 =
2. Liriodenderon tulipifera	30		FACU	FACU species x 4 =
3. Ulmus americana	20	Y	FACW	UPL species x 5 =
4. Quercus phellos	10	N	FAC	Column Totals: (A) (B)
5				Column Fotals.
6				Prevalence Index = B/A =
	100	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: <u>50</u>	20% of			1 - Rapid Test for Hydrophytic Vegetation
	20% 01	total cover		2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft) 1. Carpinus caroliniana	50	Υ	FAC	3 - Prevalence Index is ≤3.0¹
2. Acer rubrum	20	Y	FAC	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
3. Lindera benzoin	10	N	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Fraxinus pennsylvanica		N	FACW	= 1 rosionato 1 juropi juo vogotaton (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	85	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: 43	20% of	total cover	17	_
50% of total cover: 43 Herb Stratum (Plot size: 5 ft	20% of	total cover	17	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	4-	total cover		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera	15	Υ	FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3.	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3.	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5.	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5.	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3	15	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9.	15 10	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3	15 10	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10.	15 10	<u>Y</u> <u>Y</u>	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11.	15 10	Y Y	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3.	15 10	Y Y	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft)	15 10	Y Y	FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica	15 10 	Y Y = Total Covertotal covert	FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	25 20% of	Y Y = Total Covertotal cover	FACW FACW FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft) 1. Lonicera japonica	15 10 	Y Y = Total Covertotal covert	FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans	25 20% of	Y Y = Total Covertotal cover	FACW FACW FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Smilax rotundifolia	25 20% of	Y Y = Total Covertotal cover	FACW FACW FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. 4. 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 13 Woody Vine Stratum (Plot size: 30 ft 1. Lonicera japonica 2. Toxicodendron radicans 3. Smilax rotundifolia	25 20% of 5 3 2	Y Y = Total Covertotal cover	FACW FACW FACW FACW FACW FACC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3.	25 20% of 3 2	= Total Covers	FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3	25 20% of 20% of	= Total Covers	FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3.	25 20% of 20% of	= Total Covers	FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Sampling Point: wdim006f_w

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	·S			
<u>(inches)</u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-4	10 YR 3/3	100					LM	
4-11	10 YR 4/3	65	10 YR 5/6	25	<u>C</u>	PL/M	SA/LM	Divided Matrix
4-11	10 YR 5/2	15						Divided Matrix
11-14	10 YR 5/2	55	10 YR 5/6	35	С	PL/M	SA/LM	Divided Matrix
11-14	10 YR 6/1	10						Divided Matrix
14-16	10 YR 8/1	60	10 YR 5/6	35	С	PL/M	SA	
	ncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				148)	coast Prairie Redox (A16)
Black His	, ,		Thin Dark Su			47, 148)	[7] a	(MLRA 147, 148)
_ , ,	n Sulfide (A4)		Loamy Gleye		(F2)		<u>''</u> P	riedmont Floodplain Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Ma		- 6)		Пν	(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Da					other (Explain in Remarks)
	rk Surface (A12)	3 (7 (1 1)	Redox Depre					Carpian in Normanio)
=	lucky Mineral (S1) (L	.RR N,	Iron-Mangan			LRR N,		
	147, 148)		MLRA 13					
	leyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	6, 122)		icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 147	7) un	less disturbed or problematic.
	ayer (if observed):							
Type: NA								
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:	me areas of soi	l 4 inche	s of 10 YR 4/2 o	ver 10 \	/R 7/2 r	o redox		
00	ino aroao or oor	1 1 1110110	0 01 10 110 1/2 0	VOI 10 1	11, 1, 2, 1	o rodox		



Wetland data point wdim006f_w facing south



Wetland data point wdim006f_w facing east



Wetland data point wdim006f_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim006_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	ocal relief (concave, convex, none): concave Slope (%): 4
Subregion (LRR or MLRA): LRR P Lat: 37.115608	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	pes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of ye	
	y disturbed? Are "Normal Circumstances" present? Yes V No
Are Vegetation , Soil , or Hydrology naturally pr	•
5 <u> </u>	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present? Wetland Hydrology Present? Yes No V No V	. Within a wettand? Tes No
Remarks:	•
	eams (SDIM006 through SDIM010) below a pond. Some
evidence of past disturbance, berms, rutting. Photos: 2	
Total of past distance, serine, rutting. Thetes. 2	7 00 and 200 1 anough 2002 (00m, 11, 2, 0, 11).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)	
High Water Table (A2) Hydrogen Sulf	
1 	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Re	eduction in Tilled Soils (C6)
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

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

Sampling Point: wdim006_u

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species
1. Pinus taeda	60	Y N	FACW	That Are OBL, FACW, or FAC: 5 (A)
2. Liquidambar syraciflua	10	<u>N</u>	FAC	Total Number of Dominant
3				Species Across All Strata: 9 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 55 (A/B)
6				Describer of landers were landers
	70	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 35	20% of	total cover	14	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft				OBL species x 1 =
1. Pinus taeda	15	Υ	FAC	FACW species x 2 =
2. Liriodenderon tulipifera	10	Y	FACU	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
	· 			Dravalance Index P/A
6	25	= Total Cov		Prevalence Index = B/A =
40				Hydrophytic Vegetation Indicators:
50% of total cover: 13	20% of	total cover	5	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Liquidambar syraciflua	35	<u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Juniperus virginiana	15	<u>Y</u>	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3. Acer rubrum	5	<u>N</u>	FAC	Problematic Hydrophytic Vegetation (Explain)
4. Quercus phellos	5	N	FAC	Problematic Hydrophytic Vegetation (Explain)
5				Indicators of budgie call and water debuggers are
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	60	= Total Cov	or	i i
		- Total Cov	CI	I Definitions of Five Vegetation Strata:
50% of total cover: 30				Definitions of Five Vegetation Strata:
50% of total cover: 30				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of		12	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera	20% of	total cover	12 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica	20% of	total cover	12 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	total cover	FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	total cover	FACU FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N	FACU FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4.	20% of 10 5 1	Y Y N	FACU FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N	FACU FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N = Total Covertotal covert	FACU FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N = Total Coverted total coverte	FACU FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N = Total Coverted total coverte	FACU FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N = Total Coverted total coverte	FACU FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Y Y N STATE TOTAL COVERS	FACU FACW FACW FACW FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10	Total Covers	FACU FACW FACW FACW FACW FACC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4.	20% of 10 5 1	Total Covers	FACU FACW FACW FACW FACW FACC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft 1. Liriodenderon tulipifera 2. Rubus allegheniensis 3. Boehmeria cylindrica 4	20% of 10 5 1	Total Covers	FACU FACW FACW FACW FACW FACC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Sampling Point: wdim006_u

Profile Desc	ription: (Describe	to the dept	n needed to document the	e indicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redox Featu	res			
(inches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	2.5 YR 4/2	100				LM	
3-14	2.5 YR 5/4	100				SA/LM	
							
		- —					
¹Type: C=Co	oncentration, D=Der	letion. RM=l	Reduced Matrix, MS=Mask	ed Sand Gra	ins.	² Location: PI	_=Pore Lining, M=Matrix.
Hydric Soil		notion, rum	Toddood Matrix, Mo Masic	ou ound ore		Indica	tors for Problematic Hydric Soils ³ :
Histosol			☐ Dark Surface (S7)				cm Muck (A10) (MLRA 147)
=			Polyvalue Below Sur	faco (SO) (M	I D		oast Prairie Redox (A16)
☐ Black Hi	oipedon (A2)		Thin Dark Surface (S			140) <u> </u>	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix		47, 140)	Пв	iedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Matrix (F3)				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark Surface				ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	o (A11)	Depleted Dark Surface				ther (Explain in Remarks)
		e (ATT)	Redox Depressions			μО	ulei (Expiaiii iii Neiliaiks)
	ark Surface (A12) Nucky Mineral (S1) (I	DD N			DD N		
-	•	LKK N,	Iron-Manganese Mas	sses (F 12) (I	LKK N,		
	147, 148)		MLRA 136)	\	c 122\	3 In di	actors of hydrophytic vogotation and
	Gleyed Matrix (S4)		Umbric Surface (F13				cators of hydrophytic vegetation and
	ledox (S5)		Piedmont Floodplain				tland hydrology must be present,
	Matrix (S6)		Red Parent Material	(FZI) (WILK	4 127, 147	r) uni	ess disturbed or problematic.
	_ayer (if observed) ^	•					
Туре: <u>N</u> /							
Depth (ind	ches):					Hydric Soil	Present? Yes V No No
Remarks:	ا انمور طسیمونا ال	nabla ta n	ull sample beyond 14	"			
LC	oose, dry soil. O	nable to p	ruli sample beyond 14				



Wetland data point wdim006_u facing north



Wetland data point wdim006_u facing east



Wetland data point wdim006_u soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwiddie Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim007f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): concave Slope (%): 2
Subregion (LRR or MLRA): LRR P Lat: 37.11395	6 Long: <u>-77.874410</u> Datum: <u>NAD1983</u>
Soil Map Unit Name: Appling (no additional descriptor avaia	Ible) NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation Soil , or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	In the Converted Asses
Hydric Soil Present? Yes V No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present? Yes V No	
Remarks:	
Lotic wetland located on a small terrace in floodplain of	stream (SDIM011) within a pine plantation. Falls within area of
opposing slopes E (20%), W (25%). Photos: 2809 thro	ugh 2813 (soil, N, E, S, W). Evidence of past harvest (ruts,
stumps) throughout area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	Plants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen Sulf	
Saturation (A3)	ospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6)
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	5):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	

20 #	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species	
1. Acer rubrum	60	<u>Y</u>	FAC	That Are OBL, FACW, or FAC: 11	(A)
2. Liquidambar syraciflua	50	<u>Y</u>	FAC	Total Number of Dominant	
3. Pinus taeda	30	Y	FAC		(B)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 ((A/B)
6.				That Are OBL, I ACW, OF I AC.	(A/D)
<u> </u>	140	= Total Cov	or	Prevalence Index worksheet:	
70				Total % Cover of: Multiply by:	
	20% of	total cover:	20	OBL species x 1 =	_
Sapling Stratum (Plot size: 15 ft			- 40	FACW species x 2 =	
1. Liquidambar syraciflua	30	<u>Y</u>	FAC	FAC species x 3 =	
2. Acer rubrum	20	Υ	<u>FAC</u>	FACU species x 4 =	
3. Carpinus caroliniana	15	N	FAC		
4. Quercus phellos	5	N	FAC	UPL species x 5 =	
5. Pinus taeda	5	N	FAC	Column Totals: (A)	(B)
6. Magnolia virginiana	5	N	FACW	Prevalence Index = B/A =	
o. <u> </u>	80	= Total Cov		Hydrophytic Vegetation Indicators:	-
40				1 ' ' '	
· · · · · · · · · · · · · · · · · · ·	20% of	total cover:	16	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50%	
1. Liquidambar syraciflua	5	<u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹	
2. Carpinus caroliniana	5	Υ	FAC	4 - Morphological Adaptations ¹ (Provide suppo	orting
3. Acer rubrum	2	N	FAC	data in Remarks or on a separate sheet)	
4. Magnolia virginiana	2	N	FACW	Problematic Hydrophytic Vegetation ¹ (Explain))
5. Vaccinium corymbosum	1	N	FACW		
6				¹ Indicators of hydric soil and wetland hydrology mu	ıst
0				be present, unless disturbed or problematic.	
	15	Tatal Car			
_		= Total Cov		Definitions of Five Vegetation Strata:	
50% of total cover: 8					
Herb Stratum (Plot size: 5 ft)			3	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	n.
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus	20% of 10	total cover:	3 FACW	Tree – Woody plants, excluding woody vines,	n. H).
Herb Stratum (Plot size: 5 ft)	20% of		3	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI	n. H).
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides	20% of 10 5	total cover:	3 FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	H).
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta	20% of 10	total cover:	FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines,	H).
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum	20% of 10 5 3	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	H).
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3	total cover:	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les	H).
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	H). ss
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including woody) plants, including woody vines, including woody)	H). ss
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and lest than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	H). ss
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including woody) plants, including woody vines, including woody)	H). ss
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y T Total Cover:	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y T Total Cover:	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5	Y Y Y TOTAL Cover:	FACW FAC FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5. 6	20% of 10 5 3 5 5	Y Y Y T T Total Cov total cover: Y	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 23 20% of	Y Y Y Total Cover:	FACW FAC FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5. 6. 7. 8. 9. 10. 11. 50% of total cover: 11.5 Woody Vine Stratum (Plot size: 30 ft) 1. Smilax rotundifolia	20% of 10 5 3 5 23 20% of	Y Y Y Total Cover:	FACW FAC FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 23 20% of	Y Y Y T Total Cover: Y Y T Total Cover: Y	FACW FAC FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 23 20% of 20	Y Y Y T Total Cover: Y Y T Total Cover: Y	FACW FAC FACW FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height. Woody vine – All woody vines, regardless of height	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 5	Y Y Y T Total Cover: Y Y T Total Cover: Y	FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height. Woody vine – All woody vines, regardless of height herbaceous vines, regardless of height height woody vines.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10 5 3 5 23 20% of	Y Y Y Total Cover: Y Total Cover: Y Total Cover:	### FACW FACW FACW FACW FACW FACW FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height. Woody vine – All woody vines, regardless of heighted the properties of the size of the siz	H). ss ng
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5 6 7 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. Smilax rotundifolia 2 3 4 5 50% of total cover: 10	20% of 10 5 3 5 23 20% of 20 20% of	Y Y Y Total Cover: Y Total Cover: Y Total Cover:	### FACW FACW FACW FACW FACW FACW FACW FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height. Woody vine – All woody vines, regardless of height herbaceous vines, regardless of height height woody vines.	H). ss ng sly 3
Herb Stratum (Plot size: 5 ft) 1. Streptopus lanceolatus 2. Athyrium asplenoides 3. Thelypteris simulalta 4. Arisaema triphyllum 5	20% of 10	Y Y Y Total Cover: Y Y Total Cover: Y Total Cover: Y Total Cover:	FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBI Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximate ft (1 m) in height. Woody vine – All woody vines, regardless of height herbaceous vines, regardless of height height woody vines.	H). ss ng

Sampling Point: wdim007f_w

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence o	f indicators.)
Depth Matrix		Redox Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	10 YR 3/2	100	10.1/0.0/0				LM	
3-12	10 YR 4/2	75	10 YR 3/6	20	<u> </u>	PL/M	SA/LM	
12-16	10 YR 6/2	100					SA	
				-				
	-	- ——			·			_
	-							
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil			·					ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			<u> </u>	m Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be					ast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
_ , ,	en Sulfide (A4)		Loamy Gleye		(F2)			edmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) (LRR N)		Depleted Ma		F6)			(MLRA 136, 147) ry Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark					ner (Explain in Remarks)
$=$ \cdot	ark Surface (A12)	o ()	Redox Depre					(Explain in Telliane)
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan			LRR N,		
	\ 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					ators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					and hydrology must be present,
	Matrix (S6) Layer (if observed):		Red Parent N	nateriai (i	-ZI) (IVILR	A 127, 147) unie	ss disturbed or problematic.
Type: N		•						
Depth (inc							Hydric Soil F	Present? Yes Vo No No
Remarks:							Tryunc oon r	Tesent: Tes Ne
Something So	ome areas of soi	I 4 inche	s of 10 YR 4/2 ov	ver 10 \	/R 7/2, r	o redox		



Wetland data point wdim007f_w facing north



Wetland data point wdim007f_w facing east



Wetland data point wdim007f_w soil sample

Project/Site: Southeast Reliability Project	City/County: NA/Dinwitty Sampling Date: 9/3/2014
Applicant/Owner: Dominion Transmission	State: VA Sampling Point: wdim007_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): hillslope	ocal relief (concave, convex, none): concave Slope (%): 30
Subregion (LRR or MLRA): LRR P Lat: 37.113879	
Soil Map Unit Name: Appling (no additional descriptor avaia	Ible) 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	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Lette Consided Asso
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No V	
Remarks:	
	M011) and wetland wdim007 within a pine plantation. Evidence
of past harvest (ruts, stumps) throughout area. Photos	2815 through 2819 (soil, N, E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf	
1 	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Sur Other (Explain	
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	5):
Saturation Present? Yes No Depth (inches	S): Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os previous inspections) if available:
NA	оз, ргечіонз інзроснонзу, ії ачанавіс.
Remarks:	
Normans.	

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

Sampling Point: wdim007_u Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30 ft % Cover Species? Status Number of Dominant Species 1. Liriodendron tuliperfera **FACU** That Are OBL, FACW, or FAC: 20 Υ 2 Pinus taeda **FAC** Total Number of Dominant 3. Quercus alba 15 **FACU** 10 ____ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: 105 = Total Cover Total % Cover of: Multiply by: 50% of total cover: 53 20% of total cover: 21 OBL species _____ x 1 =____ Sapling Stratum (Plot size: 15 ft) FACW species _____ x 2 =____ 1. Liriodenderon tulipifera **FACU** x 3 =____ FAC species 2. Fagus grandifolia 20 **FACU** FACU species _____ x 4 =____ 3. Quercus alba N 5 **FACU** UPL species _____ x 5 =____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: 28 20% of total cover: 11 Shrub Stratum (Plot size: 15 ft 2 - Dominance Test is >50% 1. Quercus alba 3 - Prevalence Index is ≤3.0¹ FACU 2. Quercus rubra FACU 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 3. Liriodenderon tulipifera FACU Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ___ = Total Cover **Definitions of Five Vegetation Strata:** 50% of total cover: 3 __ 20% of total cover: 2 Tree – Woody plants, excluding woody vines, Herb Stratum (Plot size: 5 ft approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 1. Quercus rubra **FACW** 2. Quercus alba **FACW** Sapling - Woody plants, excluding woody vines, 3. Streptopus lanceolatus 1 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. **Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. 3 ____ = Total Cover 50% of total cover: 2 ____ 20% of total cover: 1 Woody Vine Stratum (Plot size: 30 ft) 1. N/A Hydrophytic N/A = Total Cover Vegetation Present? 50% of total cover: N/A __ 20% of total cover: N/A

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

Sampling Point: wdim007_u

Profile Desc	ription: (Describe	to the depth	n needed to docume	nt the indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	10 YR 3/2	100				LM	
3-14	10 YR 4/3	100			PL	SA/LM	fine sand
	10 111 1/0				<u></u>	<u> </u>	- Into Garia
		. ——					
		. ——					
		- — -					
¹Type: C=Co	oncentration, D=Den	letion. RM=I	Reduced Matrix, MS=I	Masked Sand Gra	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		notion, rtivi–i	toddcod Widthx, Wio-i	ividskou Suria Gri	JII 13.		ators for Problematic Hydric Soils ³ :
Histosol			Dork Surface (S	27)			cm Muck (A10) (MLRA 147)
=			Dark Surface (S	s /) w Surface (S8) (N	II DA 147		oast Prairie Redox (A16)
☐ Black Hi	oipedon (A2)			w Sunace (58) (N ace (S9) (MLRA 1		140)	
	siic (A3) n Sulfide (A4)		Loamy Gleyed		47, 148)		(MLRA 147, 148) iedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Matrix			— P	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark Sui				ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	ο (Λ11)	Depleted Dark S				ther (Explain in Remarks)
= '	ark Surface (A12)	C (ATT)	Redox Depress				ulei (Explair III Nemarks)
	lucky Mineral (S1) (I	DD N		e Masses (F12) (I DD NI		
-	1 147, 148)	LINN IN,	MLRA 136)	e Masses (1 12) (LRR N,		
	Gleyed Matrix (S4)			(F13) (MLRA 13	6 122)	3Ind	icators of hydrophytic vegetation and
	ledox (S5)			dplain Soils (F19)			tland hydrology must be present,
	Matrix (S6)			terial (F21) (MLR			less disturbed or problematic.
	_ayer (if observed):		rtca r archit ividi	teriai (i 21) (iviEit	A 127, 147) uni	icas disturbed of problematic.
Type: NA							
J	ches):					Hydric Soil	Present? Yes No No
						riyuric 3011	Fresent: Tes No L
Remarks:							



Upland data point wdim007_u facing south



Upland data point wdim007_u facing west



Upland data point wdim007_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/5/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim011f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
•	ocal relief (concave, convex, none): concave Slope (%): 2
Subregion (LRR or MLRA): LRR P Lat: _37.112731	Long:77.871656 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	
Remarks:	<u>: </u>
Headwater terrene wetland located on a terrace between	en opposing slopes E (25%), W (25%) within a pine plantation.
, ·	vidence of past harvest (ruts, stumps) throughout area. Extensive
briars and vines. Photos: 2918 through 2922 (soil, N, E	, S, W). Some small upland areas included in wetland.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
✓ High Water Table (A2)	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
1 -	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6)
Drift Deposits (B3)	face (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	in Remarks)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	. N/Δ
Surface Water Present? Yes No Depth (inchest Ves No Depth (inchest No Depth (inchest No Depth (inchest No Depth (inchest No No Depth (inchest No No No Depth (inchest No	
Saturation Present? Yes Ves No Depth (inches (includes capillary fringe)	wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	
Surface water present elsewhere in wetland.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		
1. Liquidambar styraciflua	35	Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)
2. Fraxinus pennsylvanica	25	Y	FACW	That Are OBE, I ACW, OF I AC.
	20	<u>'</u>	FAC	Total Number of Dominant
3. Acer rubrum		<u> </u>	FAC	Species Across All Strata: 9 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 89 (A/B)
6.				(12)
	80	= Total Cov	er	Prevalence Index worksheet:
10				Total % Cover of: Multiply by:
50% of total cover: 40	20% of	total cover:	10	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft				FACW species x 2 =
_{1.} Liquidambar syraciflua	40	<u>Y</u>	<u>FAC</u>	FAC species x 3 =
_{2.} Ilex opaca	25	<u>Y</u>	FACU	
3. Carpinus caroliniana	25	Υ	FAC	FACU species x 4 =
4. Fraxinus pennsylvanica	15	N	FACW	UPL species x 5 =
5. Magnolia virginiana	10	N	FACW	Column Totals: (A) (B)
6. Acer rubrum	10	\overline{N}	FAC	Dravalance Index D/A
6. 71001 Tubium				Prevalence Index = B/A =
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover: <u>63</u>	20% of	total cover:	25	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Clethera alnifolia	35	Υ	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Ilex opaca	15	N	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Carpinus caroliniana	10	N	FAC	data in Remarks or on a separate sheet)
4. Vaccinium corymbosum	10	N	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Liquidambar styraciflua	5	N	FAC	
6. Fraxinus pennsylvanica	5	<u>N</u>	FACW	¹ Indicators of hydric soil and wetland hydrology must
6. Traxilius perinsylvanica				be present, unless disturbed or problematic.
	80	Total Cov	Ωr	
		- Total Cov	CI .	Definitions of Five Vegetation Strata:
50% of total cover: 40				
50% of total cover: 40 Herb Stratum (Plot size: 5 ft		total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	16	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. llex opaca	20% of	total cover:	16 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Ilex opaca 2. Acer rubrum	20% of 3	total cover:	16 FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta	20% of 3 3 3	total cover:	FACU FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua	20% of 3 3 3 5	total cover:	FACU FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia	$ \begin{array}{c} $	N N N N N	FACU FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua	$ \begin{array}{c} $	total cover:	FACU FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia	$ \begin{array}{c} $	N N N N N	FACU FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis	$ \begin{array}{c} $	N N N N N N	FACU FAC FAC FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis	20% of 3 3 3 5 10 5 5 5	N N N N N N N N	FACU FAC FAC FAC FAC FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum	20% of 3 3 3 5 10 5 15 15	N N N N N N N N N N N N N N Y	FACU FAC FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10	20% of 3 3 3 5 10 5 15 15	N N N N N N N N N N N N N N N Y	FACU FAC FAC FAC FAC FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum	20% of 3 3 5 10 5 15 5 15 5	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FAC FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10	20% of 3 3 3 5 10 5 15 5 15 5	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FAC FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10. 11. 50% of total cover: 27	20% of 3 3 3 5 10 5 15 5 15 5	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FAC FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10. 11. 50% of total cover: 27 Woody Vine Stratum (Plot size: 30 ft	20% of 3 3 3 5 10 5 15 5 15 5 20% of	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FAC FACW FACW FACW FACW FACW FA	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10. 11. 50% of total cover: 27 Woody Vine Stratum (Plot size: 30 ft	20% of 3 3 3 5 10 5 15 5 15 5 20% of	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FAC FACW FACW FACW FACW FACW FA	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Ilex opaca 2. Acer rubrum 3. Thelypteris simulalta 4. Liquidambar styraciflua 5. Clethera alnifolia 6. Impatiens capensis 7. Carex intumescnesce 8. Onoclea sensibilis 9. Osmundastrum cinnamomeum 10	20% of 3 3 5 10 5 15 5 20% of 25	N N N N N N N N N N N N N N N N N N N	FACU FAC FAC FACW FACW FACW FACW FACW FACW F	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
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Sampling Point: wdim011f_w

Profile Desc	ription: (Describe	to the dep	oth needed to docui	ment the	indicator	or confirm	the absence	of indicators.)
Depth <u>Matrix</u>			Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-10	10 YR 2/1	100					Muck	
10-19	10 YR 8/1	35	10 YR 6/8	30	С	PL/M	SA/CL	see below
				-	-			
				-	·			
		. ——						
		. —						
		. —		•	· 			
¹ Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							ators for Problematic Hydric Soils ³ :
Histosol	(A1)		☐ Dark Surface	e (S7)			□ 2	cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		ice (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
☑ Black His	•		Thin Dark Su				,	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			,,	Пв	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		(1 =)		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		- 6)			/ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	rk Surface (A12)	0 (7111)	Redox Depre					other (Explain in Remarks)
	lucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N		
	147, 148)		MLRA 13		03 (1 12) (LIXIX IV,		
	leyed Matrix (S4)		Umbric Surfa		(MI RΔ 13	6 122)	³ Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I					less disturbed or problematic.
	ayer (if observed):		rear arener	viatoriai (i	Z I) (WILI	A 127, 147	T un	iless disturbed of problematic.
Type: NA								
							Lindaia Cail	Present? Yes V No No
Depth (inc	ines):						Hydric Soil	Present? Yes No No No
Remarks:	wer level variah	le colors	; 20% 10YR 6/1	5% 10	YR 5/1	5% white	ے	
	Troi lovoi vallab	.0 00.0.0	,, 2070 10111 0/11	070 .0	0, .,	0 /0 Wille		



Wetland data point wdim011f_w facing north



Wetland data point wdim011f_w facing east



Wetland data point wdim011f_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie	Sampling Date: <u>9/5/2014</u>
Applicant/Owner: Dominion Transmission et. al.	State: VA	Sampling Point: wdim011_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	<u> </u>
•	ocal relief (concave, convex, none): concave	Slope (%): 5
Subregion (LRR or MLRA): LRR P Lat: 37.11256		Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	lopes NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of y		
	y disturbed? Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology naturally pr	•	
, , , , , , , , , , , , , , , , , , ,		
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects,	, important features, etc.
Hydrophytic Vogatation Present?		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No V Yes No V	- Is the Sampled Area within a Wetland? Yes	No V
Wetland Hydrology Present?	_ within a wettand: Tes	<u> </u>
Remarks:	-	
On hillslope above wetland WDIM011 and steam SDIM	IO14 within a nine plantation Evidence	of nast harvest (ruts
stumps) throughout area. Extensive briars and vines. P		
The state of the s		,.
LIN/DDG1 GGV		
HYDROLOGY		
Wetland Hydrology Indicators:		tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
Surface Water (A1) True Aquatic F	<u> </u>	getated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf		
I 	ospheres on Living Roots (C3) Moss Trim Lin	
	<u> </u>	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Recent Iron Re Thin Muck Sur	eduction in Tilled Soils (C6) Crayfish Burn	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain		ressed Plants (D1)
Iron Deposits (B5)	Geomorphic I	, ,
Inundation Visible on Aerial Imagery (B7)	Shallow Aquit	
Water-Stained Leaves (B9)	<u> </u>	phic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral	•
Field Observations:		
Surface Water Present? Yes No Depth (inches	s):	
Water Table Present? Yes No Depth (inches		
Saturation Present? Yes No Depth (inches		t? Yes No V
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:	
NA		
Remarks:		

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

Sampling Point: wdim011_u

Torra Charles (Distrator 30 ft	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft) 1. Pinus taeda		Species?	FAC	Number of Dominant Species 7
	50	<u> </u>		That Are OBL, FACW, or FAC: $\frac{7}{}$ (A)
Liriodenderon tulipifera	15		FACU	Total Number of Dominant Species Across All Strata: 8 (B)
4	_			
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 88 (A/B)
6.				That Ald OBE, I ACW, OF I AC.
<u> </u>	65	= Total Cov	/er	Prevalence Index worksheet:
22				Total % Cover of: Multiply by:
	20% of	total cover	: 13	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft	50	V	E40	FACW species x 2 =
1. Acer rubrum	50	Y	FAC	FAC species x 3 =
2. Liriodenderon tulipifera	35	Y	FACU	FACU species x 4 =
3				UPL species x 5 =
4				
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
	85	= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover: 43	20% of	total cover	<u>: 17</u>	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Clethera alnifolia	40	Υ	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	30	Υ	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3 Liquidambar styraciflua	10	N	FAC	data in Remarks or on a separate sheet)
4. Liriodenderon tulipifera	10	N	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5 Magnolia virginiana	5	N	FACW	
·	- 5	N	- — —	¹ Indicators of hydric soil and wetland hydrology must
6. Ilex opaca			FACU	be present, unless disturbed or problematic.
	100	Total Cov	ıor	
		- Total Cov	/ei	Definitions of Five Vegetation Strata:
50% of total cover: <u>50</u>	20% of			, and the second
				Tree – Woody plants, excluding woody vines,
- <i>(</i> :	20% of			, and the second
Herb Stratum (Plot size: 5 ft	20% of	total cover	20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum	20% of	total cover	<u>20</u> FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis	20% of 20 5	total cover	20 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum	20% of 20 5	total cover	20 FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 20 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 20 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 20 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5	total cover	FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4. 5. 6. 7. 8. 9.	20% of 5 5 5	total cover	FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4.	20% of 5 5 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4.	20% of 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N = Total Cover total cover	FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW FACW FACW FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 30 20% of 25 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW FACW FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 30 20% of 25 5	Y N N S S S S S S S S S S S S S S S S S	FACW FACW FACW FACW FACW FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 30 20% of 25 5 3	Total Cover Y N N S Total Cover Y N N N N N N N N N N N N N	FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 5 30 20% of 25 5 3	Total Cover Y N N = Total Cover Y N Total cover Y N N = Total Cover	FACW FACW FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 5 5 5 5 30 20% of 25 5 3	Total Cover Y N N S Total Cover Y N N N N N N N N N N N N N	FACW FACW FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft) 1. Clethera alnifolia 2. Acer rubrum 3. Onoclea sensibilis 4	20% of 20% of 30 20% of 25 5 3 3 20% of 20% of 20% of 33	Total Cover Y N N = Total Cover Y N Total cover Y N N = Total Cover	FACW FACW FACW FACW FACW FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Sampling Point: wdim011_u

Profile Desc	cription: (Describe	to the dept	th needed to docum	nent the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features		. 2	- .	5
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-7	10 YR 2/1	98					SA/LM	
7-13	10 YR 4/2	98					SA	
-		· ——						-
		·						
	·							
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	² Location: Pl	
Hydric Soil			,					itors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) \square C	oast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		-2)		<u> </u>	iedmont Floodplain Soils (F19) (MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		3)		Пу	ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar					ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					·
	lucky Mineral (S1) (I	_RR N,	☐ Iron-Mangan		s (F12) (I	RR N,		
	A 147, 148)		MLRA 13		MI DA 12	122	3 In di	cators of hydrophytic vegetation and
	Sleyed Matrix (S4) dedox (S5)		Umbric Surfa Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N					ess disturbed or problematic.
	_ayer (if observed):	:						·
Туре: <u>N</u> /	4							
Depth (inc	ches):						Hydric Soil	Present? Yes No No
Remarks:								



Upland data point wdim011_u facing north



Upland data point wdim011_u facing east



Upland data point wdim011_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date:9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim010f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
<u> </u>	Local relief (concave, convex, none): Concave Slope (%): 7
Subregion (LRR or MLRA): LRR P Lat: 37.1091	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent s	lopes NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	
	ntly disturbed? Are "Normal Circumstances" present? Yes No
	problematic? (If needed, explain any answers in Remarks.)
, , , , , , , , , , , , , , , , , , ,	
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.
	7
Hydrophytic Vegetation Present? Yes No No	Is the Sampled Area within a Wetland? Yes No
Hydric Soil Present? Yes No	within a Wetland? Yes No No No
Wetland Hydrology Present? Yes _ V No Remarks:	<u>-</u> -
	2012 and at too of appealing alarma E (200/) \W (259/) I contact in
200 ft wide forested area between two active corn fiel	n013 and at toe of opposing slopes E (20%), W (35%). Located in
200 it wide lorested area between two active comme	us. F110t0s. 2074 tillough 2070 (5011, 14, E, 3, 47).
Large unstable area of bank slumping located 20 ft so	outh of centerline.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	y) Surface Soil Cracks (B6)
Surface Water (A1) True Aquation	c Plants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen S Hydrogen S	ulfide Odor (C1)
1 <u>—</u>	izospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of	Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
I <u> </u>	in in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inch	
Water Table Present? Yes No Depth (inch	
	les): Wetland Hydrology Present? Yes No No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	
NA	otos, provious inspections, il uvulusio.
Remarks:	
Tromand.	

Sampling Point: wdim010f_w

45 4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 15 ft)		Species?		Number of Dominant Species	
1. Acer rubrum	60	. <u>Y</u>	FAC	That Are OBL, FACW, or FAC: 8 (A)	.)
2. Fraxinus pennsylvanica	45	<u>Y</u>	FACW	Total Number of Dominant	
3. Diospyros virginiana	15	<u>N</u>	FAC	Species Across All Strata: 8 (B))
_{4.} Liquidambar syraciflua	10	<u>N</u>	FAC	Beauty (Beauty Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/	/B)
6.				That 710 OBE, 1710W, 011710.	, 0,
	130	= Total Cov	er	Prevalence Index worksheet:	
65				Total % Cover of: Multiply by:	
	20% of	total cover	20	OBL species x 1 =	
Sapling Stratum (Plot size: 10 ft	_		540	FACW species x 2 =	
1. Liquidambar styraciflua	5	<u> </u>	FAC	FAC species x 3 =	
2				FACU species x 4 =	
3				1	
4				UPL species x 5 =	D)
5				Column Totals: (A) (E	B)
6				Prevalence Index = B/A =	
<u></u>		= Total Cov	or .	Hydrophytic Vegetation Indicators:	
0				1	
50% of total cover: 3	20% of	total cover	<u> 1</u>	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 10 ft				2 - Dominance Test is >50%	
1. Liquidambar styraciflua	15	. <u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹	
2. Fraxinus pennsylvanica	5	Υ	FACW	4 - Morphological Adaptations ¹ (Provide supporti	ting
3. Ilex opaca	3	N	FACU	data in Remarks or on a separate sheet)	
4				Problematic Hydrophytic Vegetation ¹ (Explain)	
5					
5. <u> </u>		· 		¹ Indicators of hydric soil and wetland hydrology must	t
0	23			be present, unless disturbed or problematic.	
		= Total Cov		Definitions of Five Vegetation Strata:	
50% of total cover: <u>12</u>					
50% of total cover: 12 Herb Stratum (Plot size: 5 ft				Tree – Woody plants, excluding woody vines,	
_).
Herb Stratum (Plot size: 5 ft)	20% of	total cover	5	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).).
Herb Stratum (Plot size: 5 ft) 1. Microstegium vimineum 2. Persicaria longiseta	20% of 35 25	total cover	5 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides	20% of 35 25 15	total covers	FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum	20% of 35 25 15 10	Y Y N N	FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana	20% of 35 25 15 10 5	total cover	FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum	20% of 35 25 15 10	Y Y N N	FAC FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana	20% of 25 25 15 10 5 3	Y Y N N N	FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum	20% of 35 25 15 10 5 3	Y Y N N N	FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7.	20% of 35 25 15 10 5 3	Y Y N N N	FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including).
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Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7	20% of 35 25 15 10 5	Y Y N N N	FAC FAC FAC FACW FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately). · 3
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7	20% of 35 25 10 5 3	Y Y N N N	FAC FAC FACW FACW FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.). · 3
Herb Stratum (Plot size: 5 ft) 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7	20% of 35 25 15 10 5 3 3 93	Y Y N N N N Total Cover	FAC FACW FACW FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.). · 3
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Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7	20% of 35 25 15 10 5 3	Y Y N N N T T T T T T T T T T T T T T T	FAC FAC FACW FACW FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.). · 3
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7. 8. 9. 10. 11. 50% of total cover: 47 Woody Vine Stratum (Plot size: 15 ft) 1. Smilax rotundifolia	20% of 35 25 10 5 3 3 93 20% of 15	Y Y N N N T	FAC FACW FACW FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.). · 3
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7	20% of 35 25 10 5 3 3 93 20% of 15	Y Y N N N T	FAC FAC FACW FACW FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.). · 3
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Herb Stratum (Plot size: 5 ft) 1. Microstegium vimineum 2. Persicaria longiseta 3. Athryium asplenoides 4. Osmundatrum cinnamomeum 5. Magnolia virginiana 6. Maianthemum racemosum 7 8 9 10 11 50% of total cover: 47 Woody Vine Stratum (Plot size: 15 ft) 1. Smilax rotundifolia 2 3 4 5	20% of 35 25 10 5 3 93 20% of 15 15 20% of sheet.)	Y Y N N N Total Covering total Cove	FAC FACW FACW FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of height.). · 3

Sampling Point: wdim010f_w

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-4	10 YR 3/3	95	10 YR 4/4	1	<u>C</u>	<u>M</u>	LM	
4-11	10 YR 4/2	70	10 YR 4/6	25	<u>C</u>	<u>M</u>	LM	
11-15	10 YR 4/1	70	10 YR 4/6	10	С	M	SA/LM	Divided Matrix
11-15	10 YR 4/2	20					SA/LM	Divided Matrix
		- ——			·			-
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indica	ators for Problematic Hydric Soils ³ :
L Histosol	(A1)		Dark Surface	(S7)			<u> </u>	cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ace (S8) (N	ILRA 147,	148) \square C	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		<u>□</u> P	Piedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Ma				_	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark					ery Shallow Dark Surface (TF12)
_ :	d Below Dark Surfac	e (A11)	Depleted Dai					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	_RR N,	☐ Iron-Mangan		ses (F12) (LRR N,		
	A 147, 148)		MLRA 13		(0.01 D.0.40	0 400\	3,	
	leyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6) _ayer (if observed):		Red Parent N	viateriai (F	-21) (IVILR	A 121, 141	r) un	less disturbed or problematic.
Type: NA		•						
Depth (inc							Hydric Soil	Present? Yes V No No
Remarks:							Trydric 30ii	Tresent: Tes No
Remarks:								



Wetland data point wdim010f_w facing north



Wetland data point wdim010f_w facing west



Wetland data point wdim010f_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie	Sampling Date: <u>9/4/2014</u>
Applicant/Owner: Dominion Transmission et. al.	State: VA	Sampling Point: wdim010_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA	Sampling Folic
•	ocal relief (concave, convex, none): <u>concave</u>	Slope (%): 35
Subregion (LRR or MLRA): LRR P Lat: 37.109234		Slope (%) Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo		
Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation Soil, or Hydrology significantly		
	y disturbed? Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answer	is in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes Ves No		
Hydric Soil Present? Yes No	- Is the Sampled Area within a Wetland? Yes	No V
Wetland Hydrology Present?		<u> </u>
Remarks:	<u>- l</u>	
Hillslope adjacent to wetland wdim010 and stream sdin	n013. Located in 200 ft wide forested are	ea hetween two active
corn fields. Photos: 2880 through 2884 (soil, N, E, S, V		sa between two active
Continues: 1 Hotos: 2000 tillough 2004 (30li, 14, E, O, V	v).	
HYDROLOGY		
Wetland Hydrology Indicators:		ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	_	, ,
Surface Water (A1) True Aquatic F	:	getated Concave Surface (B8)
High Water Table (A2) Hydrogen Sull		
I 	ospheres on Living Roots (C3) Moss Trim Li	
		Water Table (C2)
	reduction in Tilled Soils (C6) Crayfish Burr	
☐ Drift Deposits (B3) ☐ Thin Muck Sull ☐ Algal Mat or Crust (B4) ☐ Other (Explain		isible on Aerial Imagery (C9) tressed Plants (D1)
Iron Deposits (B5)	Geomorphic	, ,
Inundation Visible on Aerial Imagery (B7)	Shallow Aqui	
Water-Stained Leaves (B9)	<u> </u>	aphic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral	•
Field Observations:	TAC-Notation	1631 (153)
	c).	
	<u> </u>	
Trade Table Tresent:		nt? Yes No V
Saturation Present? Yes No Depth (inchesting (includes capillary fringe)	s): Wetland Hydrology Presen	it? Yes No L
Describe Recorded Data (stream gauge, monitoring well, aerial photos	tos, previous inspections), if available:	
NA		
Remarks:		

Tree Stratum (Plot size: 30 ft

1. Liquidambar styraciflua

2 Liriodenderon tulipifera

4 Quercus phellos

Sapling Stratum (Plot size: 15 ft

1 Liquidambar styraciflua

Shrub Stratum (Plot size: 15 ft

1. Vaccinium corymbosum

2. Carpinus caroliniana

3. Quercus rubra

3. Acer rubrum

Absolute

% Cover

70

35

20

50% of total cover: 68 20% of total cover: 27

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

Dominant Indicator

Status

FAC

FAC

FACU

FACU

FACW

FAC

FACU

Species?

Υ

Ν

Ν

135 = Total Cover

25____ = Total Cover

N

Sampling Point: wdim010_u Dominance Test worksheet: **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** 8 ____ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: **OBL** species _____ x 1 =____ FACW species _____ x 2 = ____ ____ x 3 =____ FAC species FACU species _____ x 4 =____ ____ x 5 =___ UPL species Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

			= Total Cov	ver	Definitions of Five Vegetation Strata:
50%	of total cover: 4	20% c	of total cover	: 2	Tree Meady plants analysiss woody size
Herb Stratum (Plot size: 5 ft)				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Microstegium vimineum		3	Υ	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Polystichum acrostichoides		3	Y	FACU	Continue Manda planta qualidina una di crima
					Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3					than 3 in. (7.6 cm) DBH.
4					Chrub Woody plants avaluding woody vines
5				- ——	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11			_		Woody vine – All woody vines, regardless of height.
		6	= Total Cov	ver	
50%	of total cover: 3	20% c	of total cover	: 2	
Woody Vine Stratum (Plot size: 30 f					
1. Lonicera japonica	,	35	Υ	FAC	
2 Parthenocissus quinquefolia		5		FACU	
3. Toxicodendron radicans		3		FAC	
			_		
4			-	- ——	
5		43	T-1-1-0		Hydrophytic
	00		= Total Cov		Vegetation Present? Yes No
50%	of total cover: 22	20% c	of total cover	: <u>9</u>	rieseiit: res <u>ra</u> No <u>r </u>
Remarks: (Include photo numbers he	ere or on a separate s	sheet.)			
Many wetland plants on steep slope.					
JS Army Corps of Engineers					Eastern Mountains and Piedmont – Version 2.0

Sampling Point: wdim010_u

Profile Desc	ription: (Describe	to the dept	h needed to docur	ment the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-5	10 YR 3/3	95					SA/LM	fine sand and silt
5-13	10 YR 4/3	98					SA/LM	fine sand
					•			
					-			
1	D. D. D.	Latina DM	Deduced Matrice M				21 DI	
Hydric Soil I	ncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	iins.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol			☐ Dark Surface	(97)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		e (S8) (M	I RA 147		oast Prairie Redox (A16)
Black His			Thin Dark Su				140)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			, ,	□ P	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma				_	(MLRA 136, 147)
	ck (A10) (LRR N)	()	Redox Dark					ery Shallow Dark Surface (TF12)
= :	l Below Dark Surfac rk Surface (A12)	e (A11)	Depleted Da				Цο	ther (Explain in Remarks)
	ucky Mineral (S1) (L	RR N	Iron-Mangan			RR N		
	. 147, 148)	,	MLRA 13		,5 (I 12) (I			
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Indi	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	21) (MLR /	4 127, 147	') unl	less disturbed or problematic.
	ayer (if observed):							
Type: NA								Present? Yes No No
Depth (inc	:nes):						Hydric Soil	Present? Yes No No
Remarks: So	oil loose and dry	unable t	o pull sample be	elow 13"				
	•							



Upland data point wdim010_u facing north



Upland data point wdim010_u facing east



Upland data point wdim010_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim008e_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: 37.107723	B Long: -77.859316 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
	/ disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology naturally pr	
, and a just a j	(, .
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	100
Remarks:	·
Headwater terrene PFM wetland along hillside seep in a	active corn field. Area overall is dominated by weedy pasture
	a frequently flows water. Photos: 2862 through 2866 (soil, N, E,
(s, w).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulf	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
1 	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	s):
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os praviaus inspections) if available.
NA	us, previous inspections), it available.
Remarks:	
	ave avente but not actablished analysh to man as a waterbady
resource. Hydrology from wetland leads to stream sdin	ow events, but not established enough to map as a waterbody
Tesource. Trydrology from welland leads to stream sum	1012.

Sampling Point: wdim008e_w

20.4	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. N/A		That Are OBL, FACW, or FAC: 2 (A)
2		Total Number of Dominant
3		Species Across All Strata: 3 (B)
4		(5)
		Percent of Dominant Species That Are OBL FACW or FAC: 67 (A/B)
5		That Are OBL, FACW, or FAC: 67 (A/B)
6	NI/A	Prevalence Index worksheet:
	N/A = Total Cover	Total % Cover of: Multiply by:
50% of total cover: N/A	20% of total cover: N/A	1
Sapling Stratum (Plot size: 15 ft)		OBL species x 1 =
NI/A		FACW species x 2 =
		FAC species x 3 =
2		FACU species x 4 =
3		UPL species x 5 =
4	. 	Column Totals: (A) (B)
5	· —— —— ——	-
6		Prevalence Index = B/A =
	N/A = Total Cover	Hydrophytic Vegetation Indicators:
E00/ of total cover. N/A	20% of total cover: N/A	1 - Rapid Test for Hydrophytic Vegetation
· · · · · · · · · · · · · · · · · · ·	20% of total cover:	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15 ft		3 - Prevalence Index is ≤3.0¹
1. N/A		- I
2		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3	·	
4		Problematic Hydrophytic Vegetation ¹ (Explain)
5		
6.		 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	N/A = Total Cover	be present, unless disturbed of problematic.
NI/A		Definitions of Five Vegetation Strata:
<u></u>	20% of total cover: N/A	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of total cover: N/A	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft) 1. Paspalum laeve	20% of total cover: N/A 35 Y FAC	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of total cover: N/A	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft) 1. Paspalum laeve	20% of total cover: N/A 35 Y FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1 Paspalum laeve 2 Persicaria longiseta 3 Solidago rugosa 4 Echinochloa muricata 5 Cyperus odoratus	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1 Paspalum laeve 2 Persicaria longiseta 3 Solidago rugosa 4 Echinochloa muricata 5 Cyperus odoratus 6 Xianthimum strumarium 7 Zea mays (10%)	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8.	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1 Paspalum laeve 2 Persicaria longiseta 3 Solidago rugosa 4 Echinochloa muricata 5 Cyperus odoratus 6 Xianthimum strumarium 7 Zea mays (10%)	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
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Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8.	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8 9	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft)	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. N/A	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8 9 10 11 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8. 9. 10. 11. 50% of total cover: 54 Woody Vine Stratum (Plot size: 30 ft) 1. N/A 2. 3. 1	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8 9 10 11 50% of total cover: 54 Woody Vine Stratum (Plot size: 30 ft 1. N/A 2 3 4	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8. 9. 10. 11. 50% of total cover: 54 Woody Vine Stratum (Plot size: 30 ft 1. N/A 2. 3. 4. 5. 50% of total cover: N/A	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft 1. Paspalum laeve 2. Persicaria longiseta 3. Solidago rugosa 4. Echinochloa muricata 5. Cyperus odoratus 6. Xianthimum strumarium 7. Zea mays (10%) 8	20% of total cover: N/A 35	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No

Sampling Point: wdim008e_w

Depth	Matrix Color (moist)	%		x Feature %		Loc ²	Toyturo	Domarke
(inches) 0-5	10 YR 3/3		Color (moist)	%	Type ¹	LOC	<u>Texture</u> LM	Remarks
5-16	10 YR 6/2	- 35 45	10 YR 5/6	45	<u>C</u>		SA/LM	fine grain, Divided matrix
5-16 5-16	10 YR 6/4	_ 43 10	10 11(3/0	40	. -		OA/LIVI	Divided Matrix
0-16	10 18 6/4	_ 10	·					Divided iviatrix
	<u> </u>		· 					
				-				
Гуре: С=С	Concentration, D=De	epletion, RN	M=Reduced Matrix, M	S=Maske	d Sand G	rains.	² Location: P	L=Pore Lining, M=Matrix.
ydric Soil	Indicators:		_					ators for Problematic Hydric Soils ³ :
Histoso			Dark Surface	. ,	(0.5)			cm Muck (A10) (MLRA 147)
	Epipedon (A2) Histic (A3)		Polyvalue Be				, 148) <u> </u>	Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)	□Р	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Ma		(- –)			(MLRA 136, 147)
	luck (A10) (LRR N)		Redox Dark					/ery Shallow Dark Surface (TF12)
	ed Below Dark Surfa	ice (A11)	Depleted Da					Other (Explain in Remarks)
_	Dark Surface (A12) Mucky Mineral (S1)	(I DD N	☐ Redox Depre☐ Iron-Mangan			(I DD N		
-	RA 147, 148)	(LIXIX IX,	MLRA 13		163 (1 12 <i>)</i>	(LIXIX IX,		
_	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 1	36, 122)	³ Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	-				etland hydrology must be present,
	d Matrix (S6)	1	Red Parent I	Material (F	21) (MLI	RA 127, 14	7) un	lless disturbed or problematic.
restrictive Type: <u>N</u>	Layer (if observed	1):						
Depth (ir							Hydric Soil	Present? Yes No No
emarks.							Tiyunc 3011	1103CHE 103 NO
S. S	Soil very compac	cted.						



Wetland data point wdim008e_w facing north



Wetland data point wdim008e_w facing east



Wetland data point wdim008e_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwitty Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim008_u
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 20
Subregion (LRR or MLRA): LRR P Lat: 37.10777	
Soil Map Unit Name: Appling sandy loam, 2 to 7 percent slo	ppes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	
	y disturbed? Are "Normal Circumstances" present? Yes V
	roblematic? (If needed, explain any answers in Remarks.)
, as regention, grant and provide the control of th	(ii needed, explain any anone ii monane)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	- Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present?	
Remarks:	-
	08. Area overall is dominated by weedy pasture species and corn
crop. Photos: 2868 through 2872 (soil, N, E, S, W).	50. Allea everall is dominated by weedy pastare species and com-
0.0p. 1 110100. 2000 timough 2012 (00.11, 11, 2, 0, 11).	
HYDROLOGY	
	Consider that a fairting of the continuous
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) True Aquatic I	<u> </u>
	fide Odor (C1) Drainage Patterns (B10)
1 	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2) Consider Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Thin Muck Su ☐ Algal Mat or Crust (B4) ☐ Other (Explain	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Pepth (inche	s):
Water Table Present? Yes No Depth (inche	
Saturation Present? Yes No Depth (inche	
(includes capillary fringe)	wettand frydrology Fresent: Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
NA	
Remarks:	
1	

Sampling Point: wdim008_u Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30 ft) % Cover Species? Status **Number of Dominant Species** 1. N/A That Are OBL, FACW, or FAC: Total Number of Dominant 3____(B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: N/A = Total Cover Total % Cover of: Multiply by: 50% of total cover: N/A 20% of total cover: N/A OBL species ____ x 1 =___ Sapling Stratum (Plot size: 15 ft) FACW species _____ x 2 =____ 1. N/A x 3 =____ FAC species FACU species _____ x 4 =____ UPL species _____ x 5 =____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = N/A = Total Cover Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: N/A 20% of total cover: N/A Shrub Stratum (Plot size: 15 ft 2 - Dominance Test is >50% 1. N/A 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. N/A = Total Cover Definitions of Five Vegetation Strata: _ 20% of total cover: N/A 50% of total cover: N/A Tree – Woody plants, excluding woody vines, Herb Stratum (Plot size: 5 ft approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). _{1.} Zea mays (50%) 2 Amaranthus palmeri **FACU** Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Solanum carolinense **FACU** 3 4. Amaranthus palmeri **FAC** 5. Digitaria sanguinalis **FACU Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. 14____ = Total Cover 50% of total cover: 7 20% of total cover: 2.8 Woody Vine Stratum (Plot size: 30 ft) 1. N/A Hydrophytic N/A = Total Cover Vegetation Present? 50% of total cover: N/A __ 20% of total cover: N/A

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Remarks: (Include photo numbers here or on a separate sheet.) Corn (Zea mays) excluded; planted, not on plant indicator list.

Sampling Point: wdim008_u

Profile Desc	ription: (Describe	to the dept	n needed to docun	nent the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-5	10 YR 4/3	100					LM	
5-16	10 YR 4/4	50					SA/LM	Divided Matrix
5-16	10 YR 4/6	50						Divided Matrix
				<u> </u>				
		· — · · · · · · · · · · · · · · · · · ·		<u></u>			2	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	Location: Pl	_=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified 2 cm ML Depleted Thick Da Sandy M MLRA Sandy G Sandy G Stripped	(A1) nipedon (A2)	_RR N,	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Iron-Mangane MLRA 130 Umbric Surfa Piedmont Flo	low Surface (S9) d Matrix (Farrix (F3) Surface (Fak Surface (Fassions (F8) esse Masse b) ce (F13) (I odplain So	(MLRA 1 6) (F7) 8) es (F12) (L MLRA 130 bils (F19)	47, 148) _RR N, 6, 122) (MLRA 14	2 148)	ators for Problematic Hydric Soils ³ : cm Muck (A10) (MLRA 147) oast Prairie Redox (A16) (MLRA 147, 148) iedmont Floodplain Soils (F19) (MLRA 136, 147) ery Shallow Dark Surface (TF12) ther (Explain in Remarks) icators of hydrophytic vegetation and tland hydrology must be present, ess disturbed or problematic.
Type: N/								
Depth (inc			<u> </u>				Hydric Soil	Present? Yes No No
	oil very compacte				closer to	ward we	etland, espe	cially on "banks" of



Upland data point wdim008_u facing north



Upland data point wdim008_u facing east



Upland data point wdim008_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: _37.107095	5 Long: -77.858125 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of you	
Are Vegetation Soil , or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes 🗾 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
CLIMMADY OF FINDINGS. Attach site man showing	r compling point locations, transcate important features, etc.
SUMMARY OF FINDINGS – Attach site map snowing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	- Is the Sampled Area
Hydric Soil Present? Yes V No No	within a Wetland? Yes No No
Wetland Hydrology Present? Yes	
Remarks:	<u> </u>
	complex (PEM & PFO). This community, a PEM wetland on
	ljacent to steam sdim012. A farm road bisects the complex.
Most of area has been modified and is active corn field.	Photos: 2838 through 2842 (soil, N, E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic F	Plants (B14) Sparsely Vegetated Concave Surface (B8)
Hydrogen Sulf	ide Odor (C1)
Saturation (A3)	ospheres on Living Roots (C3) Moss Trim Lines (B16)
l 	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4)	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No V Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	DOWL C. T. I. I. I.
Flow from wetland eventually joins stream sdim013 off	ROW, but is separated by a natural upland berm.

Sampling Point: wdim009e_w
/orksheet:
nt Species

20 ft	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft 1. N/A		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Describer as Index weather set
	<u>N/A</u>	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: N/A	20% of	total cover-	N/A	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15 ft)		total covor.		OBL species x 1 =
- N/Λ				FACW species x 2 =
				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Column Fotals. (A)
6				Prevalence Index = B/A =
	N/A	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: N/A				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)	2070 01	total cover.		2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0¹
\ <u></u>				
2				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				Problematic Trydrophrytic Vegetation (Explain)
5				1
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	N/A	= Total Cov	er	·
500/ C Ν/Λ				Definitions of Five Vegetation Strata:
50% of total cover: N/A	<u> </u>	total cover:	IN/A	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	50	V	- 40	approximately 20 ft (6 m) or more in height and 3 in.
1. Microstegium vimineum	50	<u>Y</u>	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Persicaria longiseta	40	<u>Y</u>	<u>FAC</u>	Sapling – Woody plants, excluding woody vines,
3. Boehmeria cylindrica	3		FACW	approximately 20 ft (6 m) or more in height and less
4. Paspalum laeve	3		FAC	than 3 in. (7.6 cm) DBH.
5. Commelina communis	3		FAC	Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7. Zea mays (5%)	NA			Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				
	99	= Total Cov	er	
50% of total cover: <u>50</u>	20% of	total cover:	20	
Woody Vine Stratum (Plot size: 30 ft)				
1. Toxicodendron radicans				
	5	Υ	FAC	
2				
2. 3.				
2. 3. 4.				
2. 3.				Hydrophytic
2. 3. 4.				Vegetation
2. 3. 4.	5	= Total Cov	er	
2. 3. 4. 5.	5 20% of	= Total Cov	er	Vegetation

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Sampling Point: wdim009e_w

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	epth <u>Matrix</u> <u>Redox Features</u>							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-9	10 YR 4/2	80	10 YR 4/4	15	<u> </u>	PL/M	LM	
9-15	10 YR 6/2	50	10 YR 5/6	35	С	PL/M	SA/LM	Divided Matrix
9-15	10 YR 5/2	15						Divided Matrix
-				-				
					-			
1 _{Tymov} C. C.	angentration D. Don	lotion DM	Dodugod Matrix MS	Mooko	d Cond Cr		² L continue D	L. Doro Lining M. Matrix
Hydric Soil		netion, Rivi	=Reduced Matrix, MS	s=Maske	a Sana Gr	ains.	Location: P	L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol			☐ Dark Surface	(87)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ace (S8) (N	/II RΔ 1/17		coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				146)	(MLRA 147, 148)
_	n Sulfide (A4)		Loamy Gleye			177, 140)	□Р	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		(/			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		F6)		<u> </u>	ery Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfac	e (A11)	Depleted Dar	k Surfac	e (F7)		□ C	other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
-	lucky Mineral (S1) (I	LRR N,	☐ Iron-Mangan		ses (F12) (LRR N,		
	A 147, 148)		MLRA 130				3	
	Gleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	Redox (S5) Matrix (S6)		☐ Piedmont Flo					tland hydrology must be present, less disturbed or problematic.
	Layer (if observed)		Ned Falentin	nateriai (I Z I) (IVILIX	A 127, 147	T un	less disturbed or problematic.
Type: N		•						
Depth (in							Hydric Soil	Present? Yes V No
Remarks:							Tiyano con	11000iki 100 <u> </u>
Α				oil mix	ed within	field are	a and very	compacted within farm road.
Pl	ot located on ed	ge of far	m road.					



Wetland data point wdim009e_w facing north



Wetland data point wdim009e_w facing east



Wetland data point wdim009e_w soil sample

Project/Site: Atlantic Coast Pipeline Cit	ty/County: NA/Dinwitty Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009
	ection, Township, Range: NA
	relief (concave, convex, none): slight concave Slope (%): 10
Subregion (LRR or MLRA): LRR P Lat: 37.107232	Long: <u>-77.857976</u> Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent slope	es NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year'	
Are Vegetation Soil , or Hydrology significantly dis	
Are Vegetation Soil naturally problem naturally problem.	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No V	Is the Sampled Area within a Wetland? Yes No
Tryunc son trosonc	within a Wetland? Yes No
Wetland Hydrology Present? Yes No No Remarks:	
	& PFO). This upland plot (for PEM wetland) is located on a
	d. Other potential plot locations would have placed plot within
	weedy pasture species and corn crop. Photos: 2844 through
2848 (soil, N, E, S, W).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plan	nts (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide	
<u> </u>	heres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Redu	·
	ction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface Others (Furlain in I	
Algal Mat or Crust (B4)	Remarks)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 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 photos,	previous inspections), it available:
NA Remarks:	
Remarks:	

٧

EGETATION (Five Strata) – Use scientific na	ames of p	olants.		Sampling Point: wdim009 Lu
Trace Christians (Dict since 30 ft				Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. N/A	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 3 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6				
		= Total Cov		Prevalence Index worksheet:
50% of total cover: N/A	20% of	total cover:	IN/A	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)				FACW species x 2 =
_{1.} N/A				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	N/A	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: N/A	20% of	total cover:	N/A	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
1. N/A				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4. <u> </u>				
5				¹ Indicators of hydric soil and wetland hydrology must
6	N1/A			be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover: N/A	20% of	total cover:	<u>N/A</u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft _{1.} Zea mays (60%)	N/A			approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Ambrosia artemesiifolia	5	Y	FACU	
3. Solanum carolinense	3	Y	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Amaranthus palmeri	3	Y	FAC	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
6 7.				Harb All barbaras (san waada) alamba isabadina
				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11	11			
•		= Total Cov		
50% of total cover: 6	20% of	total cover:	3	
Woody Vine Stratum (Plot size: 30 ft)				
_{1.} N/A				
2				
3				
4				
5.				
	N/A	= Total Cov	er	Hydrophytic Vegetation
50% of total cover: N/A		total cover:		Present? Yes No V

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

Corn (Zea mays) planted, and not on plant indicator list.

Sampling Point: wdim009_u

SOIL

Profile Des	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Feature:	S1	. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10 YR 4/4	100					LM _	
9-15	10 YR 5/6	100					LM	
	_							
		- ——						
								_
		·						
¹ Type: C=C	oncentration, D=Der	letion. RM:		= S=Masked	Sand Gra	nins.	² Location: PL =F	Pore Lining, M=Matrix.
Hydric Soil		notion, ruivi-	-rtoddcod Widtix, Wie)-Maskee	a Suria Gre			rs for Problematic Hydric Soils ³ :
Histoso			Dark Surface	(S7)			_	Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147,		st Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		ILRA 147, 148)
_ , ,	en Sulfide (A4)		Loamy Gleye		(F2)			mont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		-c)			ILRA 136, 147) Shallow Dark Surface (TF12)
	uck (A10) (LRR N) d Below Dark Surfac	e (A11)	Redox Dark S	,				er (Explain in Remarks)
$=$ \cdot	ark Surface (A12)	0 (7111)	Redox Depre					(Explain in Nomarko)
	Mucky Mineral (S1) (I	LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					tors of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					nd hydrology must be present,
	d Matrix (S6) Layer (if observed)		Red Parent N	nateriai (F	21) (NILR	A 127, 147	r) uniess	s disturbed or problematic.
	ompaction-Till la							
J	ches): 15"	<i>,</i> 0.					Hydric Soil Pro	esent? Yes No 🗸
	iches). <u>10</u>						Tiyuric 30ii Fit	esent: res <u> </u>
Remarks: S	oils tilled periodic	cally.						



Upland data point wdim009■_u facing north



Upland data point wdim009■_u facing east



Upland data point wdim009∎_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: 37.106968	B Long: -77.857832 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes 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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	,
Remarks:	<u>: </u>
Two wetland communities mapped within this wetland of	complex (PEM & PFO). This community, a PFO lotic wetland on
	acent to steam sdim012. A farm abuts the north edge of the PFO
	x. A small upland berm along the road edge is included in the
wetland complex. Photos: 2850 through 2854 (soil, N,	E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulf	_ · · · · ·
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R	educed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	face (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	
Eventually connects to sdim012, but separated by a na	tural upland berm.

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	-	Species?		Number of Dominant Species
1. Ulmus americana	60	<u>Y</u>	FACW	That Are OBL, FACW, or FAC: 11 (A)
2. Acer rubrum	40	<u>Y</u>	FAC	Total Number of Dominant
3. Pinus taeda	20	<u>N</u>	<u>FAC</u>	Species Across All Strata: 11 (B)
4. Liquidambar syraciflua	15	N	FAC	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				That Are OBE, I ACW, OF I AC (A/B)
<u></u>	135	= Total Cov		Prevalence Index worksheet:
60				Total % Cover of: Multiply by:
	20% of	total cover:		OBL species x 1 =
Sapling Stratum (Plot size: 15 ft			540	FACW species x 2 =
1. Carpinus caroliniana	30	<u>Y</u>	FAC	FAC species x 3 =
2. Acer rubrum	30	Υ	FAC	FACU species x 4 =
3. Ulmus americana	25	Υ	FACW	1 · · · · ·
4				UPL species x 5 =(A)
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
o	85	= Total Cov	or	Hydrophytic Vegetation Indicators:
40.5				1
50% of total cover: <u>42.5</u>	20% of	total cover:	17	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%
1. Liquidambar styraciflua	5	<u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	5	Υ	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
0	10	= Total Cov		be present, unless disturbed or problematic.
_				Definitions of Five Vegetation Strata:
50% of total cover: 5	20% of	total cover:	2	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)				approximately 20 ft (6 m) or more in height and 3 in.
_{1.} Persicaria longiseta	5	<u>Y</u>	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
2. Microstegium vimineum	5	<u>Y</u>	FAC	Sapling – Woody plants, excluding woody vines,
3. Lycopus americanus	2	N	FACW	approximately 20 ft (6 m) or more in height and less
4.				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in height.
7				Hart All back as a confidence of National State Confedence
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				- Troody Time Tim troody Times, regardless of Height
	12	= Total Cov	er	
50% of total cover: <u>6</u>	20% of	total cover:	3	
Woody Vine Stratum (Plot size: 30 ft)		•		
1. Campsis radicans	20	Υ	FAC	
2. Toxicodendron radicans	30	Y	FAC	
				
3				
4				
5				Hydrophytic
	50	= Total Cov	er	Vegetation
50% of total cover: <u>25</u>	20% of	total cover:	10	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s		•		<u>I</u>
3 5 grass, no fruits; no ID.	 /			
5 5 grass, no nuits, no ib.				

Sampling Point: wdim009f_w

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	oth Matrix Redox Features							
(inches) 0-5	Color (moist) 10 YR 4/3	% 98	Color (moist)	%	Type ¹	Loc ²	Texture LM	<u>Remarks</u>
5-15	10 YR 6/1	60	10 YR 5/6	20	C	M	SA/LM	Divided Matrix
5-15	10 YR 5/2	10					SA/LM	Divided Matrix
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil			_					ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(0.0) (8			cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (Coast Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		☐ Thin Dark Su☐ Loamy Gleye			47, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(1 2)			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		F6)			/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dai					Other (Explain in Remarks)
$=$ \cdot	ark Surface (A12)	, ,	Redox Depre					, ,
Sandy N	Mucky Mineral (S1) (LRR N,	☐ Iron-Mangan	ese Mass	ses (F12) (LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	⁻ 21) (MLR	A 127, 147	7) un	less disturbed or problematic.
	Layer (if observed)	:						
Type: <u>N</u> Depth (in							Hydric Soil	Present? Yes Vo No
Remarks:							1 3	
Fi	ne-grained sand	ls, some	silt.					



Wetland data point wdim009f_w facing north



Wetland data point wdim009f_w facing east



Wetland data point wdim009f_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwitty	Sampling Date: <u>9/4/2014</u>
Applicant/Owner: Dominion Transmission et. al.	Sily/ Souncy:	State: VA Sampling Point: wdim009_u2
Investigator(s): S. Grove, E. Bubb	_ Section, Township, Range: NA	damping round
•	ocal relief (concave, convex, none):	concave Slope (%): 2
Subregion (LRR or MLRA): LRR P Lat: 37.10693		
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent s		NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of		no, explain in Remarks.)
		rcumstances" present? Yes No No
Are Vegetation Soil , or Hydrology naturally p	problematic? (If needed, expl	lain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ig sampling point locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Ve	le the Compled Area	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	Yes No V
Wetland Hydrology Present? Yes No	Ī	
Remarks:	-	
Two wetland communities mapped within this wetland	complex (PEM & PFO). This	s plot, associated with PFO portion
and located on the natural berm along stream sdim012	2. Photos: 2856 through 2866	0 (soil, N, E, S, W).
HYDROLOGY		
Wetland Hydrology Indicators:	Se	econdary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<u> </u>	Surface Soil Cracks (B6)
Surface Water (A1)	Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Su	lfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhiz	zospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1) Presence of F	Reduced Iron (C4)	Dry-Season Water Table (C2)
	Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Su		Saturation Visible on Aerial Imagery (C9)
1 = 1	n in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	-	Geomorphic Position (D2) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	<u> </u>	Microtopographic Relief (D4)
Aquatic Fauna (B13)	<u> </u>	FAC-Neutral Test (D5)
Field Observations:		1710 110444 1001 (20)
Surface Water Present? Yes No Depth (inche	es):	
Water Table Present? Yes No Depth (inche		
Saturation Present? Yes No Pepth (inche		rology Present? Yes No No
(includes capillary fringe)	_	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if availab	oie:
Remarks:		
nemarks.		

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 20 ft)		Species?		Number of Dominant Species	
_{1.} Quercus rubra	30	Υ	FACU	That Are OBL, FACW, or FAC: 4	A)
2. Liriodenderon tulipifera	20		FACU	(-,
3. Liquidambar styraciflua	25	Y	FAC	Total Number of Dominant	Ε.\
		· - '		Species Across All Strata: 9 (E	В)
4. Ulmus americana	20		FACW	Percent of Dominant Species	
5. Carpinus caroliniana	<u>15</u>		FAC	That Are OBL, FACW, or FAC: 57	A/B)
6					
	110	= Total Cov	er	Prevalence Index worksheet:	
500% - 51-1-1 55				Total % Cover of: Multiply by:	
	20% of	total cover		OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft				FACW species x 2 =	
_{1.} Fagus grandifolia	40	<u> Y </u>	FACU	FAC species x 3 =	
2. Carpinus caroliniana	35	Y	FAC		
3. Cornus florida	10		FACU	FACU species x 4 =	
A.				UPL species x 5 =	
4		-		Column Totals: (A)	(B)
5					
6				Prevalence Index = B/A =	
	85	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: 43	20% of	total cover	. 17	1 - Rapid Test for Hydrophytic Vegetation	
· · · · · · · · · · · · · · · · · · ·	20 % 01	total cover	<u></u>	2 - Dominance Test is >50%	
Shrub Stratum (Plot size: 15 ft)	_	V	FACIL	3 - Prevalence Index is ≤3.0¹	
1. Cornus floirida	5	Y	FACU	l 	
2. Carpinus caroliniana	3	Υ	FAC	4 - Morphological Adaptations ¹ (Provide supportation in Remarks or on a separate sheet)	rting
3. Fagus grandifolia	3	Υ	FACU	1 —	
4				Problematic Hydrophytic Vegetation ¹ (Explain)	
5				¹ Indicators of hydric soil and wetland hydrology mus	st
6	44			be present, unless disturbed or problematic.	
	11	- Total Cov			
		- Total Cov	er	Definitions of Five Vegetation Strata:	
50% of total cover: 6				_	
50% of total cover: 6				Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft)	20% of	total cover	3	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	1. 4)
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides	20% of	total cover	FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH	n. H).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum	20% of 20 5	total cover	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines,	·1).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum	20% of 20 5 5 5	Y N N	FACU FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	·1).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum	20% of 5 5 3	total cover	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines,	·1).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum	20% of 20 5 5 5	Y N N	FACU FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	·1).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana	20% of 5 5 3	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	·1).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	ł). s
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 5 3 2	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including woody)	ł). s
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 5 3 2	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody	ł). s
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 5 3 2	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including woody)	ł). s
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6. 7. 8.	20% of 5 5 5 3 2	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 5 3 2	total cover Y	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6. 7. 8.	20% of 5 5 5 3 2	Y N N N/A	FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 35	Y N N N N/A = Total Cov	FACU FACW FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 2 35 35	Y N N N N/A = Total Cov	FACU FACW FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 2 35 35	Y N N N N/A = Total Cov	FACU FACW FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 — 20% of 20% of 5 5 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 5 3 2 35 2 20% of 5	Y N N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 2 35 2 2 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 2 2 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 5 3 2	Y N N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 20% of 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover	FACU FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 20% of 5 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover	FACU FACU FACU FACU FAC FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 2 35 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover Y	FACU FACU FACU FACU FAC FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 35 20% of 5 5 3 2 35 20% of 5	Y N N N N/A = Total Cover Y	FACU FACU FACU FACU FAC FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2 35 20% of 5 5 3 2 35 20% of 5	Y N N N N/A = Total Cover Y	FACU FACU FACU FACU FAC FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3

Sampling Point: wdim009_u2

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16	10 YR 3/4	99					SI/LM	
	-		_					
1							2	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.		=Pore Lining, M=Matrix.
Hydric Soil								tors for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) <u> </u>	past Prairie Redox (A16)
Black Hi			Thin Dark St			47, 148)	П г:	(MLRA 147, 148)
	n Sulfide (A4) I Layers (A5)		Loamy Gley Depleted Ma		-2)		<u> </u>	edmont Floodplain Soils (F19) (MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		6)			ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					ther (Explain in Remarks)
	ark Surface (A12)	0 (/ 1. 1.)	Redox Depre					(Explain in Hemaine)
	lucky Mineral (S1) (I	RR N,	Iron-Mangar			_RR N,		
	A 147, 148)		MLRA 13					
Sandy G	lleyed Matrix (S4)		Umbric Surfa	ace (F13) (ľ	MLRA 13	6, 122)	³ Indi	cators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Fl	oodplain So	oils (F19)	(MLRA 14		land hydrology must be present,
	Matrix (S6)		. Red Parent	Material (F2	21) (MLR	A 127, 147	') unle	ess disturbed or problematic.
	ayer (if observed):							
Туре: <u>N</u> /								
Depth (inc	ches):						Hydric Soil	Present? Yes No No
Remarks:								



Upland data point wdim009_u2 fa

facing south



Upland data point wdim009_u2

facing west



Upland data point wdim009_u2 soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009e_
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: 37.107095	5 Long: -77.858125 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes 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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	
Remarks:	
Two wetland communities mapped within this wetland of	complex (PEM & PFO). This community, a PEM wetland on
	djacent to steam sdim012. A farm road bisects the complex.
Most of area has been modified and is active corn field.	Photos: 2838 through 2842 (soil, N, E, S, W).
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)	Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulf	
1 	ospheres on Living Roots (C3) Moss Trim Lines (B16)
	educed Iron (C4)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	1.21 1 1
Saturation Present? Yes No Depth (inches	S): Wetland Hydrology Present? Yes V No No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	
Flow from wetland eventually joins stream sdim013 off	ROW, but is separated by a natural upland berm.

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

Sampling Point: wdim009e_w

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species
1. N/A				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6	NI/A			Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: N/A	20% of	total cover:	N/A	
Sapling Stratum (Plot size: 15 ft)				OBL species x 1 =
1. N/A				FACW species x 2 =
2				FAC species x 3 =
				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	N/A	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: N/A	20% of	total cover-	N/A	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)	2070 01	total cover.		2 - Dominance Test is >50%
NI/A				3 - Prevalence Index is ≤3.0 ¹
-				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				1 Toblematic Trydrophytic Vegetation (Explain)
5				1
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	N/A	= Total Cov	or	· ·
NI/A				Definitions of Five Vegetation Strata:
50% of total cover: N/A				
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	N/A	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum	20% of 50	total cover:	N/A FAC	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	N/A	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum	20% of 50	total cover:	N/A FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica	20% of 50 40 3	total cover:	N/A FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve	20% of 50 40 3 3	total cover:	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis	20% of 50 40 3	total cover:	N/A FAC FAC FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6.	20% of 50 40 3 3 3 3	total cover:	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%)	20% of 50 40 3 3 3 3 NA	total cover:	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6.	20% of 50 40 3 3 3 3 NA	total cover:	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%)	20% of 50 40 3 3 3 NA	Y Y	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9.	20% of 50 40 3 3 3 NA	Y Y	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6	20% of 50 40 3 3 3 NA	Y Y	FAC FAC FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10.	20% of 50 40 3 3 3 NA	Y Y	FAC FACW FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6	20% of 50 40 3 3 3 NA 999	Y Y	FAC FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50	20% of 50 40 3 3 3 NA 999	Y Y	FAC FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft)	20% of 50 40 3 3 3 3 NA 99 20% of	Y Y T Total Cover:	FAC FACW FAC FAC FAC FAC 20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50	20% of 50 40 3 3 3 NA 999	Y Y T Total Cover:	FAC FACW FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft)	20% of 50 40 3 3 3 3 NA 99 20% of	Y Y T Total Cover:	FAC FACW FAC FAC FAC FAC 20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans	20% of 50 40 3 3 3 3 NA 99 20% of 5	Total Cover:	FAC FACW FAC FAC FAC FAC 20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. 3.	20% of 50 40 3 3 3 3 NA 99 20% of 5	Total Cover:	FAC FACW FAC FAC FAC FAC 20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2	20% of 50 40 3 3 3 3 NA 99 20% of 5	Total Cover:	FAC FACW FAC FAC FAC FAC 20	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. 3.	20% of 50 40 3 3 3 3 NA 99 20% of 5	Total Cover:	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. 3. 4. 5.	20% of 50 40 3 3 3 3 NA 99 20% of 5 5	Total Cover: Y Y Y = Total Cover: Y = Total Cover:	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. 3.	20% of 50 40 3 3 3 3 NA 99 20% of 5 5	Total Cover: Y Y Y = Total Cover: Y = Total Cover:	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5 ft 1. Microstegium vimineum 2. Persicaria longiseta 3. Boehmeria cylindrica 4. Paspalum laeve 5. Commelina communis 6. 7. Zea mays (5%) 8. 9. 10. 11. 50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft 1. Toxicodendron radicans 2. 3. 4. 5. 5.	20% of 50 40 3 3 3 3 NA 99 20% of 5 5 20% of	Total Cover: Y Y Y = Total Cover: Y = Total Cover:	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

Sampling Point: wdim009e_w

Profile Desc	ription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	<u>Type¹</u>	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-9	10 YR 4/2	80	10 YR 4/4	15	<u> </u>	PL/M	LM	
9-15	10 YR 6/2	50	10 YR 5/6	35	C	PL/M	SA/LM	Divided Matrix
9-15	10 YR 5/2	15						Divided Matrix
				-		·		
1 _{Typo} , C. C.	ancontration D. Dor	lotion DM	Doduced Matrix MS	Macka	d Cond Cr	oine	² Location, D	L. Doro Lining, M. Motriy
Hydric Soil		netion, Rivi	=Reduced Matrix, MS	s=iviaske	u Sanu Gr	diris.	Location: P	L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol			☐ Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ace (S8) (N	/II RA 147.		Coast Prairie Redox (A16)
☐ Black Hi			Thin Dark Su				. 10,	(MLRA 147, 148)
_	en Sulfide (A4)		Loamy Gleye			, -,	<u>□</u> P	riedmont Floodplain Soils (F19)
□ Stratified	d Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark S					'ery Shallow Dark Surface (TF12)
_ :	d Below Dark Surfac	e (A11)	Depleted Dar				c	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
-	Mucky Mineral (S1) (I	LRR N,	Iron-Mangan		ses (F12) (LRR N,		
	A 147, 148) Gleyed Matrix (S4)		MLRA 13		(MIDA 12	6 122\	³ Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	Layer (if observed)	:		(, (, <u></u>	- Francisco
Type: N								
Depth (inc	ches):						Hydric Soil	Present? Yes No No
Remarks:								
				oil mix	ed within	field are	ea and very	compacted within farm road.
PI	ot located on ed	ige of far	m road.					



Wetland data point wdim009e_w facing north



Wetland data point wdim009e_w facing east



Wetland data point wdim009e_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwitty Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009
	Section, Township, Range: NA
	cal relief (concave, convex, none): slight concave Slope (%): 10
Subregion (LRR or MLRA): LRR P Lat: _37.107232	Long: -77.857976 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent slo	ppes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil , or Hydrology significantly	
Are Vegetation , Soil , or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No V	Is the Sampled Area within a Wetland? Yes No
Tryunc 30ii 11030iit.	within a Wetland? Yes No
Wetland Hydrology Present? Yes No No	
	M & PFO). This upland plot (for PEM wetland) is located on a
	ield. Other potential plot locations would have placed plot within
	by weedy pasture species and corn crop. Photos: 2844 through
2848 (soil, N, E, S, W).	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	lants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfi	
<u> </u>	ospheres on Living Roots (C3) Moss Trim Lines (B16)
1 	educed Iron (C4) Dry-Season Water Table (C2)
	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surf	
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 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 NA	os, previous inspections), ii avaliable.
Remarks:	
nemarks.	

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EGETATION (Five Strata) – Use scientific na	ames of p	olants.		Sampling Point: wdim009 Lu
Trace Christians (Dict since 30 ft				Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. N/A	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 3 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6				
		= Total Cov		Prevalence Index worksheet:
50% of total cover: N/A	20% of	total cover:	IN/A	OBL species x 1 =
Sapling Stratum (Plot size: 15 ft)				FACW species x 2 =
_{1.} N/A				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
	N/A	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover: N/A	20% of	total cover:	N/A	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15 ft)				2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
1. N/A				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4. <u> </u>				
5				¹ Indicators of hydric soil and wetland hydrology must
6	N1/A			be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover: N/A	20% of	total cover:	<u>N/A</u>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5 ft _{1.} Zea mays (60%)	N/A			approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Ambrosia artemesiifolia	5	Y	FACU	
3. Solanum carolinense	3	Y	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Amaranthus palmeri	3	Y	FAC	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
				approximately 3 to 20 ft (1 to 6 m) in height.
6 7.				Harb All barbaras in (san usantis) alorta including
				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11	11			
•		= Total Cov		
50% of total cover: 6	20% of	total cover:	3	
Woody Vine Stratum (Plot size: 30 ft)				
_{1.} N/A				
2				
3				
4				
5.				
	N/A	= Total Cov	er	Hydrophytic Vegetation
50% of total cover: N/A		total cover:		Present? Yes No V

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

Corn (Zea mays) planted, and not on plant indicator list.

Sampling Point: wdim009_u

SOIL

Profile Des	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Feature:	S1	. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10 YR 4/4	100					LM	
9-15	10 YR 5/6	100					LM	
	_							
		- ——						
								_
¹ Type: C=C	oncentration, D=Dep	letion. RM:	=Reduced Matrix. MS	= S=Masked	I Sand Gra	nins.	² I ocation: PI =P	Pore Lining, M=Matrix.
Hydric Soil		notion, rtivi-	-rtoddedd Matrix, Me)-Maskee	T Suriu Gre			rs for Problematic Hydric Soils ³ :
Histoso			Dark Surface	(S7)				Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147,		st Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		LRA 147, 148)
_ , ,	en Sulfide (A4)		Loamy Gleye		F2)			mont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		-(0)			ILRA 136, 147) Shallow Dark Surface (TF12)
	uck (A10) (LRR N) d Below Dark Surfac	ρ (Δ11)	Redox Dark S	,	,			r (Explain in Remarks)
$=$ \cdot	ark Surface (A12)	C (ATT)	Redox Depre					(Explain in Nomarks)
	Mucky Mineral (S1) (I	LRR N,	☐ Iron-Mangan			LRR N,		
MLR.	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					ors of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					d hydrology must be present,
	d Matrix (S6) Layer (if observed)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	7) unless	disturbed or problematic.
	ompaction-Till la							
J	ches): 15"	yoı					Undria Cail Dra	esent? Yes No 🔽
	cries): 10						Hydric Soil Pre	esent? Yes No
Remarks: S	oils tilled periodic	cally.						
		-						



Upland data point wdim009■_u facing north



Upland data point wdim009■_u facing east



Upland data point wdim009∎_u soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwiddie Sampling Date: 9/4/2014
Applicant/Owner: Dominion Transmission et. al.	State: VA Sampling Point: wdim009f_v
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: NA
	ocal relief (concave, convex, none): slight concave Slope (%): 15
Subregion (LRR or MLRA): LRR P Lat: 37.106968	B Long: -77.857832 Datum: WGS84
Soil Map Unit Name: Appling sandy loam, 7 to 15 percent sl	opes 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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No No
Wetland Hydrology Present?	,
Remarks:	<u>: </u>
Two wetland communities mapped within this wetland of	complex (PEM & PFO). This community, a PFO lotic wetland on
	acent to steam sdim012. A farm abuts the north edge of the PFO
	c. A small upland berm along the road edge is included in the
wetland complex. Photos: 2850 through 2854 (soil, N,	E, S, W).
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) True Aquatic F	
High Water Table (A2) Hydrogen Sulf	<u> </u>
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R	educed Iron (C4)
Sediment Deposits (B2) Recent Iron Re	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	face (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
NA	
Remarks:	
Eventually connects to sdim012, but separated by a na	tural upland berm.

00.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species	
1. Ulmus americana	60	Y	FACW	That Are OBL, FACW, or FAC: 11 (A)	
2. Acer rubrum	40	<u>Y</u>	FAC	Total Number of Dominant	
3. Pinus taeda	20	<u>N</u>	<u>FAC</u>	Species Across All Strata: 11 (B)	
4. Liquidambar syraciflua	15	N	FAC		
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/I	D)
6.				That Are OBL, I ACW, OF I AC.	D)
<u></u>	135	Total Cov	or	Prevalence Index worksheet:	
60				Total % Cover of: Multiply by:	
	20% of	total cover:	21	OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft)		.,		FACW species x 2 =	
1. Carpinus caroliniana	30	<u>Y</u>	FAC	FAC species x 3 =	
2. Acer rubrum	30	Υ	<u>FAC</u>	FACU species x 4 =	
3. Ulmus americana	25	Υ	FACW	·	
4				UPL species x 5 =	- 1
5				Column Totals: (A) (B	3)
6				Prevalence Index = B/A =	
o	85	Total Cov	or	Hydrophytic Vegetation Indicators:	
40.5				1	
50% of total cover: <u>42.5</u>	20% of	total cover:	1/	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 15 ft				2 - Dominance Test is >50%	
1. Liquidambar styraciflua	5	<u>Y</u>	FAC	3 - Prevalence Index is ≤3.0 ¹	
2. Acer rubrum	5	Υ	FAC	4 - Morphological Adaptations (Provide supporting	ng
3				data in Remarks or on a separate sheet)	
4				Problematic Hydrophytic Vegetation ¹ (Explain)	
5					
6				¹ Indicators of hydric soil and wetland hydrology must	
0	10	T-1-1-0		be present, unless disturbed or problematic.	
_		= Total Cov		Definitions of Five Vegetation Strata:	
50% of total cover: 5	20% of	total cover:	2	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft)				approximately 20 ft (6 m) or more in height and 3 in.	
1. Persicaria longiseta	5	Υ	FACW	(7.6 cm) or larger in diameter at breast height (DBH).	
T. I ersicana longiseta			. ,		
2. Microstegium vimineum	5	Y	FAC	Sanling – Woody plants, excluding woody vines	
	5 2			Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
2. Microstegium vimineum 3. Lycopus americanus	5	Υ	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
2. Microstegium vimineum	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
2. Microstegium vimineum 3. Lycopus americanus 4.	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less	
2. Microstegium vimineum 3. Lycopus americanus	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
2. Microstegium vimineum 3. Lycopus americanus 4	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including	
2. Microstegium vimineum 3. Lycopus americanus 4	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	
2. Microstegium vimineum 3. Lycopus americanus 4	5	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including	
2. Microstegium vimineum 3. Lycopus americanus 4	<u>5</u> <u>2</u>	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4. 5. 6. 7. 8.	5 2	Υ	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3	3
2. Microstegium vimineum 3. Lycopus americanus 4	5 2	Υ	FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12	Y N	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12	Y N	FAC FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of	Y N = Total Cov total cover:	FAC FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20	Y N = Total Cov total cover:	FAC FACW er 3	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of	Y N = Total Cov total cover:	FAC FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20	Y N = Total Cov total cover:	FAC FACW er 3	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20	Y N = Total Cov total cover:	FAC FACW er 3	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20	Y N = Total Cov total cover:	FAC FACW er 3	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20 30	Y N = Total Cov total cover:	FAC FAC FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 50	Total Cover: Y Y Total Cover: Y Y Total Cover:	FAC FACW er 3 FAC FAC FAC er	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20 30 20% of	Total Cover:	FAC FACW er 3 FAC FAC FAC er	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation	3
2. Microstegium vimineum 3. Lycopus americanus 4	12 20% of 20 30 20% of	Total Cover: Y Y Total Cover: Y Y Total Cover:	FAC FACW er 3 FAC FAC FAC er	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation	3

Sampling Point: wdim009f_w

Profile Desc	cription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature				
(inches) 0-5	Color (moist) 10 YR 4/3	98	Color (moist)	%	Type ¹	Loc ²	Texture LM	<u>Remarks</u>
5-15	10 YR 6/1	60	10 YR 5/6	20	C	M	SA/LM	Divided Matrix
5-15	10 YR 5/2	10					SA/LM	Divided Matrix
					-			
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil			_					ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(0.0) (8			cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148) 🔟 🤇	Coast Prairie Redox (A16)
Black Hi	en Sulfide (A4)		☐ Thin Dark Su☐ Loamy Gleye			47, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(1 2)		<u> </u>	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		F6)			/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar					Other (Explain in Remarks)
$=$ \cdot	ark Surface (A12)	, ,	Redox Depre				<u>—</u>	, ,
Sandy M	lucky Mineral (S1) (I	LRR N,	☐ Iron-Mangan	ese Mass	ses (F12) (LRR N,		
	A 147, 148)		MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	⁻ 21) (MLR	A 127, 147	7) un	less disturbed or problematic.
	_ayer (if observed)	:						
Type: <u>N/</u> Depth (ind							Hydric Soil	Present? Yes Vo No
Remarks:							1 3	
Fi	ne-grained sand	ls, some	silt.					



Wetland data point wdim009f_w facing north



Wetland data point wdim009f_w facing east



Wetland data point wdim009f_w soil sample

Project/Site: Atlantic Coast Pipeline	City/County: NA/Dinwitty	Sampling Date: <u>9/4/2014</u>
Applicant/Owner: Dominion Transmission et. al.	Gityredding	State: VA Sampling Point: wdim009_u2
Investigator(s): S. Grove, E. Bubb	Section, Township, Range: N	IA
Landform (hillslope, terrace, etc.): Natural levee	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRR P Lat: 37.		
Soil Map Unit Name: Appling sandy loam, 7 to 15 pe		NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this		(If no, explain in Remarks.)
	<u> </u>	l Circumstances" present? Yes No No
Are Vegetation Soil , or Hydrology na	aturally problematic? (If needed, e	explain any answers in Remarks.)
, — — · · · · · · · · · · · · · · · · ·		
SUMMARY OF FINDINGS – Attach site map s	showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	13 the Sampled Alled	Yes No V
Wetland Hydrology Present? Yes No	'==	
Remarks:		
Two wetland communities mapped within this we	etland complex (PEM & PFO). 1	This plot, associated with PFO portion
and located on the natural berm along stream so		
HYDROLOGY		
		Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all the	nat annivi	Surface Soil Cracks (B6)
	Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	ogen Sulfide Odor (C1)	Drainage Patterns (B10)
1 = '	zed Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
1=	ence of Reduced Iron (C4)	Dry-Season Water Table (C2)
	ent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	r (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	th (inches):	
	th (inches):	Hydrology Present? Yes No V
Saturation Present? Yes No Pepi (includes capillary fringe)	th (inches): Wetland H	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if ava	ailable:
NA		
Remarks:		

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 20 ft)		Species?		Number of Dominant Species	
_{1.} Quercus rubra	30	Υ	FACU	That Are OBL, FACW, or FAC: 4	Α)
2. Liriodenderon tulipifera	20		FACU	(-7
3. Liquidambar styraciflua	25	Y	FAC	Total Number of Dominant	٥,
		· 		Species Across All Strata: 9 (E	3)
4. Ulmus americana	20		FACW	Percent of Dominant Species	
5. Carpinus caroliniana	<u>15</u>		<u>FAC</u>	That Are OBL, FACW, or FAC: 57	4/B)
6					
	110	= Total Cov	er	Prevalence Index worksheet:	
50% - 61-1-1				Total % Cover of: Multiply by:	
	20% of	total cover:		OBL species x 1 =	
Sapling Stratum (Plot size: 15 ft				FACW species x 2 =	
_{1.} Fagus grandifolia	40	<u>Y</u>	FACU	FAC species x 3 =	
2. Carpinus caroliniana	35	Υ	FAC		
3. Cornus florida	10		FACU	FACU species x 4 =	
A.				UPL species x 5 =	
4				Column Totals: (A)	(B)
5					
6				Prevalence Index = B/A =	
	<u>85</u>	= Total Cov	er	Hydrophytic Vegetation Indicators:	
50% of total cover: 43	20% of	total cover:	17	1 - Rapid Test for Hydrophytic Vegetation	
·	20 /6 01	total cover.		2 - Dominance Test is >50%	
Shrub Stratum (Plot size: 15 ft)	_	V	FACIL	3 - Prevalence Index is ≤3.0 ¹	
1. Cornus floirida	5	Y	FACU	l 	
2. Carpinus caroliniana	3	Υ	FAC	4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)	rting
3. Fagus grandifolia	3	Υ	FACU	1 	
4				Problematic Hydrophytic Vegetation ¹ (Explain)	
5				¹ Indicators of hydric soil and wetland hydrology mus	st
6	44			be present, unless disturbed or problematic.	
	11	 Total Cov 	or		
		rotal oov	GI	Definitions of Five Vegetation Strata:	
50% of total cover: 6				_	
50% of total cover: 6				Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 ft)	20% of	total cover:	3	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	1. 1)
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides	20% of	total cover:	3 FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH	ı. 1).
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum	20% of 20 5	total cover:	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines,	ł).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum	20% of 20 5 5	Y N N	FACU FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	ł).
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum	20% of 20 5 5 3	total cover:	FACU FACW	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines,	ł).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum	20% of 20 5 5	Y N N	FACU FACW FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	ł).
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	ł).
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	ł). S
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including	ł). S
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody	ł). s
Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including	ł). s
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 20 5 5 3	Y N N N	FACU FACW FAC FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2	Y N N N N/A	FACU FACW FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
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Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6. 7. 8. 9. 10. 11. 50% of total cover: 17.5	20% of 5 5 5 3 2	Y N N N N N/A	FACU FACW FACU FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
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Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6. 7. 8. 9. 10. 11. 50% of total cover: 17.5 Woody Vine Stratum (Plot size: 20 ft 1.)	20% of 5 5 3 2	Y N N N N/A = Total Cover:	FACU FACU FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 35 2 20% of 5	Y N N N N/A = Total Cover:	FACU FACU FACU FAC FACU FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
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Herb Stratum (Plot size: 5 ft 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6.	20% of 5 5 3 2	Y N N N N/A = Total Coverse Y	FACU FACU FACU FACU FAC FACU FAC FAC FAC FAC FAC FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height.	i). s ng y 3
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Herb Stratum (Plot size: 5 ft) 1. Polystichum acrostichoides 2. Arisaema triphyllum 3. Microstegium vimineum 4. Maianthemum racemosum 5. Carpinus caroliniana 6	20% of 5 5 3 2 2 35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y N N N N/A = Total Cover: Y	FACU FACU FACU FACU FACU FACU FACU FACU	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DBH Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh	i). s ng y 3
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Sampling Point: wdim009_u2

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16	10 YR 3/4	99					SI/LM	
			_					
	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.		_=Pore Lining, M=Matrix.
Hydric Soil	ndicators:						<u>Ind</u> ica	tors for Problematic Hydric Soils ³ :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) 🔲 Co	past Prairie Redox (A16)
Black Hi			Thin Dark S			47, 148)	_	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gley		-2)		L Pi	edmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)	(***)	Redox Dark					ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Da				Ot	ther (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N		
	lucky Mineral (S1) (I	LKK N,	Iron-Mangar		S (F 12) (I	_RR N,		
	A 147, 148) Gleyed Matrix (S4)		MLRA 13		MI DA 12	6 122)	³ Indi	cators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					cators of hydrophytic vegetation and claims of hydrology must be present,
	Matrix (S6)		Red Parent					ess disturbed or problematic.
	ayer (if observed):		rtca r archit	iviatoriai (i z	LI) (IVILIV	127, 147	T dill	cos disturbed of problematic.
Type: NA								
Depth (inc			_				Hydric Soil	Present? Yes No No
Remarks:							Tiyunc 30ii	Tresent: Tes No
Remarks:								



Upland data point wdim009_u2 fa

facing south



Upland data point wdim009_u2

facing west



Upland data point wdim009_u2 soil sample

Project/Site: ATLANTC COAST PIPE (IN F City/County: Dinwiddle Sampling Date: 96/2014
Applicant/Owner: DOMINION ET AI State: VA Sampling Point: WDIM OI 2 F. V
Applicant/Owner: DomINION FT AI State: VA Sampling Point: WDTM 0/2+-V
Investigator(s): S. GROVE, F. BUBB Section, Township, Range: Local relief (concave, convex, none): CONCAVE Slope (%): 3
Subregion (LRR or MLRA): LRR P Lat: 37, 106149 Long: -77, 857648 Datum: W65 84
Soll Map Unit Name: APPLING SANDY LOAM 7-15 % SLOPE NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soit, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No. Is the Sampled Area
Hydric Soil Present? Yes No. within a Wetland? Yes No. No.
Wetland Hydrology Present? Yes X No
Remarks: TERRENE READINATER WETLAND ASSOC. IN SDIMOIS
THES INTO Y WOLMOOD AND SOLM OIR OFF ROW ON SUIGHT
TIES INTO LE WOIMOUR AND SDIM DIR OFF ROW ON SLIGHT PROCESSE (40%) W (25%)
2110705 2026 2020
PHOTOS 2935-2939 SOIL NESW
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
✓ Saturation (A3) Oxldized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches): N/A
Water Table Present? Yes No Depth (inches): WA
Saturation Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes No No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: SATURATED TO SURFACE EVENTUAL SPESNERKE
STREAM FORMS TO SOUTH IN JU

VEGETATION (Five Strata) – Use scientific	names of	plants.		Sampling Point: WDI MOIQ f
27	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20)	% Cover	Species?	_Status	Number of Device 10 - 1-
1. FRAXINUS PENSYLVANICH	40	<u> </u>	FACW	That Are OBL, FACW, or FAC:(A)
2 ACER RUBR	_ S	N	FAC.	
3			<u> </u>	Total Number of Dominant
4.				Species Across All Strata; (B)
5.				Percent of Dominant Species
6.		· — · — —		That Are OBL, FACW, or FAC: (A/B)
<u> </u>	110	·		Prevalence Index worksheet:
	_	= Total Cov	_	
50% of total cover: 2	<u> </u>	total cover:	9	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15				OBL species x1=
1. LIQUIDAM BAR STYR	5	N.(FAC	FACW species x 2 =
2 FRAXINUS PENN	30	U	FACW	FAC species x 3 =
3 CARPINUS CAROL	- - 30	7-		FACU species x4=
S. OTTOOL	_ - 		FAC	UPL species x 5 =
4				Column Totals: (A) (B)
5				(b)
6		F		Prevalence Index = B/A =
•	60	= Total Cov	er .	Hydrophytic Vegetation Indicators:
50% of total cover: 30				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	20% 01	total cover:		2 - Dominance Test is >50%
1. VACCIN CORYMB	15	A. Taran	FACW	
				3 - Prevalence Index is ≤3.01
2 FRAXINUS PENIN	_ 3	17		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3. CARPINUS CAROL	<u>20</u>	4	FAC	•
4 DIGNOLIA VIRG		<u>N</u>	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
5.	1			
6.				Indicators of hydric soil and wetland hydrology must
	115	= Total Cove		be present, unless disturbed or problematic.
			α	Definitions of Five Vegetation Strata:
50% of total cover: 2.	20% of	total cover:		Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size:)		, i		approximately 20 ft (6 m) or more in height and 3 in.
1. BOHEMERIA CYCN		<u>N</u>	FACIV	(7.6 cm) or larger in diameter at breast height (DBH).
2 INPATIENS CAPENS	3 20	Ν	FACIL	Sapting Woody plants, excluding woody vines,
3 OSMUNDA CINN	10	1/6	FACW	approximately 20 ft (6 m) or more in height and less
4 OSMUNDA SPECTA	_ <	N	OBL	than 3 in. (7.6 cm) DBH.
5. DTHRYIUM ASPLENDID	ão	42	PAC	Shrub - Woody plants, excluding woody vines,
6. MICROSTEGIUM VIMIN	20	1		approximately 3 to 20 ft (1 to 6 m) In height.
6. MICKUSIEGIUM WIMILIV	_ <u>~</u>		FAC	approximately a to 20 KV, to a my kittle gill
7				Herb - All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10.	•			
11.				Woody vine – All woody vines, regardless of height.
	63	= Total Cov	or	
	2		12	PART OF PLOT
50% of total cover.	20% of	total cover:		PARE FROM STANDING
Woody Vine Stratum (Plot size: スり)	,	74	~ A	PART OF PLOT BARE FROM STANDING WHISR (40%)
1. PARTHENOCIS GUNGUE			FAC UN	WATER (40%)
2 VITIS ROTUND	3	<u>'Y</u>	FAC	
3				•
4				
Tr	·			·
5.	- 11			Hydrophytic.
_	<u> </u>	= Total Cov	er	Vegetation \/
50% of total cover:	<u>)</u> 20% of	total cover;		Present? Yes X No
Remarks: (include photo numbers here or on a separate	sheet.)			

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rofile Description: (Describe to the dept	h needed to documen	t the Indicator	or confirm	the absence of	of indicators.)	
Pepth <u>Matrix</u>	Redox Fe				•	
inches) Color (moist) %	Color (moist)	%Type¹	_Loc²	Texture		marks
26 10/R 2/2 95				_/104	SUGHTLY	MUCICY.
18 mirs/1 65	1048 5/4 6	20 C	OLIM	SALLM	10% 61	EY 1 4/N
2-16 GLEYI 4 N 98			137.84	SAILM		
9-10 OCENT (10 01X		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	SHILL	LULISL	sand Igrae
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,		* .				
	•					
ype: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=N	Nasked Sand Gr	ains.	² Location: PL	=Pore Lining, M=	Matrix.
ydric Soil Indicators:		•				atic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S				cm Muck (A10) (N	
Histic Epipedon (A2)	Polyvalue Below				past Prairie Redox	
Black Histic (A3)	Thin Dark Surface		147, 148)		(MLRA 147, 148)	
Hydrogen Sulfide (A4)	Loamy Gleyed N			Pi	edmont Floodplai	
Stratified Layers (A5)	X Depleted Matrix Redox Dark Surf			V.	(MLRA 136, 147) ery Shallow Dark	
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11)	Redox Dark Sun				ther (Explain in Re	
Depleted Below Dark Surface (ATT) Thick Dark Surface (A12)	Redox Depressi	•		0.		omemo
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese		(LRR N.			
MLRA 147, 148)	MLRA 136)		, ,			
Sandy Gleyed Matrîx (S4)	Umbric Surface	(F13) (MLRA 1	36, 122)	³lndi	cators of hydroph	ytic vegetation and
Sandy Redox (S5)	Piedmont Flood	plain Solls (F19	MLRA 1	18) · wel	lland hydrology m	ust be present,
Stripped Matrix (S6)	Red Parent Mate				ess disturbed or p	roblematic.
lestrictive Layer (if observed):				. 7		
Type:						1.2
Depth (inches):				Hydric Soil	Present? Yes	X No
lemarks:			7.0	}		Λ Λ
Gernaino.		,	a^{y}			11 1 W
			~	5MAC	MAPPED	
1. 1.1.	,	/0	I_{A}	NOT	MAPPED	SD
	.	(6)	/A	<u></u>		\ 35
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Wetland data point wdim012f_w facing north



Wetland data point wdim012f_w facing east



Wetland data point wdim012f_w soil sample

Project/Site: HCP Clty/Country MA	INTALLIFACTE CALCULATION
Applicant/Owner: DOM/NION ET A'L City/County: ND	DINWIDDIE Sampling Date: 96/3614
C CAMIT LE QUEL	State: VA Sampling Point: WDIMOIA_U
in the state of th	
Subregion (LRR or MLRA): LRR P Lat: 37, 10639	3
Soil Map Unit Name: APPLING SANDY LOAM , 7-15 90 5	Long: -77.857793 Datum: W6S 84
Are climatic / hydrologic conditions on the cite tunical for this firm to a conditions	OPF NWI classification: NF
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Megatation D-1	Are "Normal Circumstances" present? Yes No
	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling poi	nt locations, transacts, important features, etc.
	mportant reactives, etc.
Hydrophytic Vegetation Present? Yes No Is the Sam	pled Area
ryond Soil Present? Yes No X within a W	
Wetland Hydrology Present? Yes No Y	•
HILLS LOPE ABOVE WDIMOID AND	STREAM SDIMOIS
SEVERAL FARM ROADS THROUGHOUT	
Drackling Liver Polity Throadboan	
PHOTOS 2941-2945 (SOLL. N. F.	
0.1.	(S, W)
HYDROLOGY	•
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Draīnage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sadiment Denseile (DO)	
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	ls (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Is (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks)	Is (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5)	Is (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks)	Is (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
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Time Stratum (Piot sizer 30) Absoluble Dominant Indication Stratum (Piot sizer 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number of Dominant Species 10) Microward Sender Status (Piot Number Status	VEGETATION (Five Strata) - Use scientific n	ames of plants.	Sampling Point: Wか/NOI
1. PMUS TAED 1. PMUS TAED 1. PMUS TAED 1. TALL PMISSON TAEL 2. LIELDOEN TULIP 3. FACU 3. FACU 4. LIELDOEN TULIP 5. FACU 5. FACU 5. FACU 5. FACU 6. FACU 7. FACU 6. FACU 6. FACU 7. FACU 6. FACU 7. FAC	Tron Strature (District 20)	Absolute Dominant Indicator	
2 LIEIDEN TULL A PROCESS OF AND STRUCK 3 FAGUS GRAND STRUCK 4 LIQUID STRV 1.7 FACU 5 FAGUS GRAND STRUCK 5 FAGUS GR	Ties Statem (Flot Size.		Number of Dominant Species
Total Number of Dominant Species FIRCY FIN		· - - - - - - - - - - 	That Are OD! Exclusion 3
Species Across All Stratus (b) FACL Species Across All Stratus (c) FACL Species Across All Stratus (c) FACL Species (c) FORW species (c) FACL Species (~ ~ ~ ~	Total Number of Dominant
Percent of Dominant Spacies That Are OSL, FACK, or FAC: Sabilities Stratum (Plot size: Show of total cover: Solve of total cover: Sol	1 1		10
Total Xover FAC: 6.0 (ARS) Saaling Stratum (Plot shor: 50% of total cover: 30 20% of total cover: 6 Saaling Stratum (Plot shor: 15 CARP I NUS		ID Y FAC	
Prevalence Index worksheet Total Cover			That A ODI EXOLUTION ALA
Salling Stratum (Plot size: Solid of total cover. Solid	6,:		
Sapiling Stratum (Plot size: ARPINUS AREA Sapiling Stratum (Plot size: ARPINUS AREA Sapiling Stratum (Plot size:			
1. CARPINUS CARD. 2. ACER RUBRUM 3 Y FAC 3. Y FAC 3. Y FAC 4. Species x3 = FACU species x4 = UPL species x6 = FACU speci		20% of total cover:	
ACSER RUBROWN 3		و	OBL species x1=
### Stratum (Plot size: 50% of total cover: 3 20% of total cover:		O Y FAC	
4. Column Totals: (A) (B) Prevalence lands: (B) = Total Cover 50% of total cover: 29% of total cover: 3	2 ACER RUBRUM	_ 3 Y FAC	
Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 FAG US GPANO 1 FACU 2 THEX DUPTC 1 FACU 3 FACU 3 FOR STRAIL (Plot size: 50% of total cover: 20% of total cover: 3 FACU 3 FACU 4 FACU 50% of total cover: 20% of total cover: 20% of total cover: 20% of total cover: 3 FACU 3 FACU 4 FACU 3 FACU 4 FACU 5 FACU 5 FACU 5 FACU 5 FACU 5 FACU 6 FOR STRAIL (Plot size: 20% of total cover: 20% of total	3		
Prevalence Index = BIA = Hydrophytic Vegetation Indicators: 20% of total cover 20% of	4		
Shrub Stratum (Plot size: Y	5		Column Totals: (A) (B)
Second cover Solid cover	Ġ		Prevalence Index = R/A =
Shrub Stratum (Plot size: 150% of total cover: 150%		8 = Total Cover	
Shrubs Stratum (Plot size: \$\frac{1}{2} \frac{1}{1} \f	50% of total cover:		1
1. THE US BRAND 2. THEX OUTH 3. A - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 4 Problematic Hydrophytic Vegetation' (Explain) 5 Total Cover 50% of total cover: 3 20% of total cover: 2 Herb Stratum (Plot size: 50% of total cover: 3 20% of total cover: 3 20% of total cover: 4 20% of total cover: 4 20% of total cover: 50% of total cover	<u> </u>	20% of total cover	1 v 2
4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 4 - Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) 5 - Total Cover	1 FAGUS GRAND	S Y FACIA	
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain) 1. AUBRUS RUBR			1
Problematic Hydrophytic Vegetation' (Explain) 5.	3.	1 10 1-30 20	data in Remarks or on a separate sheet)
Be present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 30 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and	4.		Problematic Hydrophytic Vegetation¹ (Explain)
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Definitions of Five Vegetation Strata: Tree	6 :		¹Indicators of hydric soil and wetland hydrology must
Herb Stratum (Plot size:		Total Course	be present, unless disturbed or problematic.
Herb Stratum (Plot size:			Definitions of Five Vegetation Strata:
1. AUBRUS. RUBR 2. CARPINUS CAROT. 1 N FAC 3. Sapling Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine All woody vines, regardless of height. The control of the control		20% of total cover;	Tree Woody plants, excluding woody vines,
2 CARPINUS CAROL 3.		F V TAV	approximately 20 ft (6 m) or more in height and 3 in.
3. approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine All woody vines, regardless of height. 50% of total cover: 3 20% of total cover: 4 Woody vine All woody vines, regardless of height. FACU 2. 3. 4. 5.	121 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- THU	(7.6 cm) or larger in diameter at breast height (DBH),
than 3 ln. (7.6 cm) DBH. 5.		N_PM	Sapling - Woody plants, excluding woody vines,
Shrub — Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) In height. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine — All woody vines, regardless of height. Solvent — Solve	3		approximately 20 ft (6 m) or more in height and less
approximately 3 to 20 ft (1 to 6 m) In height. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine — All woody vines, regardless of height. **Total Cover** **Woody Vine Stratum** **PACU** **Solvential** **Total Cover** **Jonatial** **Jonatial** **Hydrophytic** **Vegetation** **Present?** **No **Remarks: (include photo numbers here or on a separate sheet.)	4, 1	<u> </u>	
Herb – All herbaceous (non-woody) plants, including herbaceous vires, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30) Y FACU Solver – Total Cover – Total Co			Shrub - Woody plants, excluding woody vines,
8. herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 10.			approximately 0 to 20 K (1 to 0 m) in neight.
plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine — All woody vines, regardless of height. **Total Cover** **Solvent of total cover*	7.		
## Total Cover	8. !		
Woody Vine All woody vines, regardless of height. 6 = Total Cover 50% of total cover: 3 20% of total cover: 2 Woody Vine Stratum (Plot size: 31) 1	9.		
## Total Cover 50% of total cover:			Woody vine - All woody vines, regardless of height
50% of total cover: 3 20% of total cover: 2 Woody Vine Stratum (Plot size: 31) 1. 5 MILAX BONA NOX	11.		
Woody Vine Stratum (Plot size: 31) 1. SMILAX BONA NOX 2		= Total Cover	
1. SMILAX BONA - NOX		20% of total cover:	
Total Cover Vegetation Present? Ves No No_	Woody Vine Stratum (Plot size: 31)		•
Total Cover Vegetation Present? Ves No No_	1. SMILAX BONA-NOX	<u> </u>	
Total Cover Vegetation Present? Ves No No_	2	<u> </u>	
Total Cover Vegetation Present? Ves No No_	3		,
Total Cover Vegetation Present? Ves No No_	4,		
Total Cover Vegetation Present? Ves No No_	5		Hydranhytia
8 Femarks: (Include photo numbers here or on a separate sheet.)	· · · · · · · · · · · · · · · · · · ·	= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cover:	20% of total cover:	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	,
		VNKNOUIN	:6PASS 197.

OII .	Sampling Point: WD/M
O)L Profile Description: (Describe to the depth needed to document the Indicator or c	
<u>-</u> • .	Annual distribution of management
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ L	oc ² Texture Remarks
0-3 royr3/2 98	SHILM COARSE SAND
2 a Mir 4111 ag	SA/LM .
5-8 1011 119 110 110 110 110 110 110 110 11	SALUM 11/
8-15 104R5/6 100	SALUM [
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	s. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators:	2 cm Muck (A10) (MLRA 147)
Histosol (A1) Dark Surface (S7)	
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLR Black Histic (A3) Thin Dark Surface (S9) (MLRA 147,	· · · —
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5) Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	Other (Explain In Remarks)
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LR	RN,
MLRA 147, 148) MLRA 136)	122) ³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Umbric Surface (F13) (MLRA 136, Piedmont Floodplain Soils (F19) (M	
Sandy Redox (S5) Piedmont Floodplain Solls (F19) (M Stripped Matrix (S6) Red Parent Material (F21) (MLRA 1	-
Restrictive Layer (if observed):	
Type:	·
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
	,
SEE & FORM FOR SKE	ET OH
7 10101	
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Upland data point wdim012_u facing north



Upland data point wdim012_u facing east



Upland data point wdim012_u soil sample

Project/Site: ACP	•	City/County:	Dinwiddie	Sampling D	vate: 9/6/2014
Applicant/Owner: DOMINIC	IN ET AL	Oldroodily	State:	VA Sampling	Point: WD/MO13
Investigator(s): S-GROVE		Section, Towns			1 0.11.1. 100.11.1.
Landform (hillslope, terrace, etc.):			ve, convex, none):	DNICAVE	Slope (%): 💍
Subregion (LRR or MLRA): LR	2 P Lat. 37.	103678	Long: 77.8	55588 1	Datum: W65\$4
Soil Map Unit Name: APPL					
Are climatic / hydrologic conditions on					
		•	Are "Normal Circumst		. V No
Are Vegetation Soil , o			(If needed, explain an		
Are Vegetation, Soil, c	i Hydrology riau	urany problematic?	(ii needed, explain an	y answers in Remark	S.)
SUMMARY OF FINDINGS -	Attach site map sh	nowing sampling p	oint locations, trai	nsects, importai	nt features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No_	within a	ampled Area . Wetland? Ye.	s_XNo	
Wetland Hydrology Present?	Yes X No				
Remarks: LOTIC.	WETLAND 4	N TERRA	E B TOE	OF GLOP	ξ .
AND BEHIND N	VATURAL BS	erm alon	G STREAM	SDIMOL	
PHOTO	os: 2956-	7960 50	IL N. E.S.	w)	,
HYDROLOGY					•
Wetland Hydrology Indicators:			Seconda	ry Indicators (minimu	m of two required)
Primary Indicators (minimum of one	is required; check all tha	t apply)	Surfa	ace Soil Cracks (B6)	
X Surface Water (A1)	True A	quatic Plants (B14)		sely Vegetated Conc	ave Surface (B8)
X High Water Table (A2)		en Sulfide Odor (C1)		nage Patterns (B10)	(,
★ Saturation (A3)		ed Rhizospheres on Livir		Trim Lines (B16)	
Water Marks (B1)		ce of Reduced Iron (C4)		Season Water Table	(C2)
Sediment Deposits (B2)		Iron Reduction in Tilled		fish Burrows (C8)	
Drift Deposits (B3)	Thin M	uck Surface (C7)	,	ration Visible on Aeri	al Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ted or Stressed Plant	
Iron Deposits (B5)		. , ,		morphic Position (D2)	i i
Inundation Visible on Aerial Imag	gery (B7)		,	ow Aquitard (D3)	
✓ Water-Stained Leaves (B9)			Micro	otopographic Relief (I	04)
Aquatic Fauna (B13)	•		FAC-	Neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	No X Depth	(inches):			
Water Table Present? Yes_	,	(inches):			
Saturation Present? Yes	No Depth		Wetland Hydrology	Present? Yes	
(includes capillary fringe)	/	•	actions) if available:		
Describe Recorded Data (stream gai	age, monitoring well, aer	iai pilotos, previous insp	ections), ii available.		
				·	
Remarks:					
			•		
		•	•		
			•		
	•				

Sampling Point: WD/MO13f_N

nches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture	Don	narks
6 18 YR 2/1 10FD		FIBRIC	Ren	iaiks
=13 IDYR5/1 90			CANRCC	CAND 18/11
3-15 GLEY 15/564 95		- DAVID	COARSE	SAND, 10201
10 = 10 01 10		SAND		
	·			
				, , , , , , , , , , , , , , , , , , ,
				•
pe: C=Concentration, D=Depletion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² l ocation: Di		ofrite
aric Soil Indicators:	Tana Oranic.	Indica	tors for Problema	tic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2	cm Muck (A10) (ML	•
Histic Epipedon (A2) Black Histic (A3)	Polyvalue Below Surface (S8) (MLRA 147,		oast Prairie Redox (•
Hydrogen Sulfide (A4)	Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2)		(MLRA 147, 148)	
Stratified Layers (A5)	Loanly Gleyed Matrix (F2) Depleted Matrix (F3)		edmont Floodplain (MLRA 136, 147)	Soils (F19)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		(เพียสล์ 136, 147) ery Shallow Dark St	ırface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		ther (Explain in Ren	
Thick Dark Surface (A12)	Redox Depressions (F8)			•
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N,			
Sandy Gleyed Matrix (S4)	MLRA 136) Umbric Surface (F13) (MLRA 136, 122)	3Indi	cators of hydrophyti	a vagatatian and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14)		land hydrology mus	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)	unle	ess disturbed or pro	blematic.
strictive Layer (if observed):				
Type:	_			.,
Depth (inches):		Hydric Soil	Present? Yes _	X No
harks: SDIL TOO	WET TO PULL SAMP	IR PI	1 AU 10	- 1/
)		1 0 %	1000 10	\wedge
	(h. 150)			1, 1
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	7 5	. \	<i>>1 /</i>	
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150				
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		- Andrews	\ ARE	•
V.	A)		XG) .	434
V V			6	436
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	B	业/	(5)	
		¥/	6	
		1/	(5)	
		4/	(5)	
D/W017		4	6	
D/M017		4	6	
D/m017		¥/	(5)	
D/W017		4	(5)	
D/m017		4/	(5)	
D/mol7		4/	6	



Wetland data point wdim013f_w facing north



Wetland data point wdim013f_w facing east



Wetland data point wdim013f_w soil sample

A A A	· · ·
	City/County: Dinwiddie Sampling Date: 916/2014
Applicant/Owner: POMINION ET AL	State: <u>VH</u> Sampling Point: <u>WD) M01</u> 3
Investigator(s): S.GROVE / E BUBB	Section, Township, Range:
Landform (hillslope, terrace, etc.): BFRM Loc	al relief (concave, convex, none): CONCAVE Slope (%):
Subregion (LRR or MLRA): LRP Lat: 37.103	
Soil Map Unit Name: _APPLING SAWDY LOAM 7-1	1111 Stadelineation, 1
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly of	listurbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally prob	plematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Affach site man showing	sampling point locations, transects, important features, etc.
Account to the state of the sta	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 NoX
Wetland Hydrology Present? Yes No	·
Remarks: NARROW UPLA-ND BERM B	ETWEEN MIDIMOIS AND
SDIMOIT. MANY	
301. 31. 1017.	
PHOTOS 2962 -2966	SOIL, N. E.S. W
HYDROLOGY	•
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pla	• • • •
High Water Table (A2) Hydrogen Sulfide	
Saturation (A3) Oxidized Rhizos	oheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Red	uced Iron (C4) Dry-Season Water Table (C2)
	uction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface	
Algal Mat or Crust (B4) Other (Explain in	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic Relief (D4)
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes NoX Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	previous inspections), if available:
Remarks:	·
	·
·	

	Ab 1.4 - D - *	, , , , , ,	
Tree Stratum (Plot size:)	Absolute Domina % Cover Specie	ant Indicator	Dominance Test worksheet:
1. LIRLOPEND TULIP			Number of Dominant Species
	$30 \forall$	<u> FACU</u>	That Are OBL, FACW, or FAC: (A)
2 LIQUIDAMB STRY	40 4	FAC	T
3. PAGUS GRAND	&D	PACU	Total Number of Dominant Species Across All Strata: (B)
4 ACGR RUBR	60 Y	PAC	Species Across All Strata; (B)
	90 7		Percent of Dominant Species
5!			That Are OBL, FACW, or FAC: (A/B)
6			(100)
	150 = Total (Covor	Prevalence Index worksheet:
7,	/	-	Total % Cover of: Multiply by:
50% of total cover: 75	20% of total cov	_{/er:30}	
Sapling Stratum (Plot size:/ O)			
1. FAGUS GRANU	15 V	FACU	FACW species x 2 =
	-/-J		FAC species x 3 =
2. LIQUO STRV	10	FAC_	FACU species x4=
3. LIRID TUUP	10	FACU	
4. CARPINUS CAROL	15 Y	FAC	UPL species x 5 =
5. ILEX OPACA	25 V	FACU	Column Totals: (A) (B)
	<u> </u>	FILL	
6			Prevalence Index = B/A =
	$_{75}$ = Total C	Cover	Hydrophytic Vegetation Indicators:
50% of total cover: <u>37</u> -	20% of total cov	15	1 - Rapid Test for Hydrophytic Vegetation
17	20% of total cov	/er: <i>1</i>	
Shrub Stratum (Plot size: 17)	22 11	C 4 = /1	2 - Dominance Test is >50%
1. ILEX OPACA	30 Y	FACU	3 - Prevalence Index is ≤3.0°
2 CARPINUS CAROL	15 Y	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3. FAGUS BRAND	5	PACU	data in Remarks or on a separate sheet)
3. 1 110.5 2 ()1	<u> </u>	11,00	Problematic Hydrophytic Vegetation ¹ (Explain)
4			
5			¹ Indicators of hydric soil and wetland hydrology must
6.			be present, unless disturbed or problematic.
	50 = Total C	:over	
70		1.	Definitions of Five Vegetation Strata:
50% of total cover:	20% of total cov	/er:_/ <i>U</i>	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5)			approximately 20 ft (6 m) or more in height and 3 in.
1. ILLIEX OPACA	1	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2 QUERCUS RUBR		FACU	
WACCIDELLION CORMAND			Sapling – Woody plants, excluding woody vines,
3. VACCINIUM CORUMB 4. POLYSTICHUM ACROSTICH		_ FACH	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. POLYSTICHUM PECRUSTICH	_10 _ Ý	FACU	that on. (7.0 dil) Doll.
5,		:	Shrub - Woody plants, excluding woody vines,
			approximately 3 to 20 ft (1 to 6 m) in height.
0			
7			Herb – All herbaceous (non-woody) plants, including
8			herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9			ft (1 m) in height.
10.			
1			Woody vine - All woody vines, regardless of height.
11	_		
	= Total C	Cover	
50% of total cover:	20% of total cov	/er	
	2070 01 10101 000		
	7 V	PAC	
1. LONICERA JAPAN		<u> </u>	
2			
3.			·
4			·
5	0		Hydrophytic
	= Total C	Cover	Vegetation
- 50% of total cover:	20% of total cov	ver:	Present? Yes / No
·			
Remarks: (Include photo numbers here or on a separate s	neel.)	-	•
REDUCED PLOT SIZE TO CAPTUR	E REPM	Y TON	, ~
CONTRACTOR			

_	-	•	¥	

Sampling Point: WD/MO/3-U

Profile Description: (Describe	to the depth	needed to docum	ent the i	ndicator o	or confirm	n the absence	of indicators.)	ng Point: VVD//V
Depth <u>Matrix</u>		Redox	Features	3				
(inches) Color (moist) 0-5 104R 3/4	<u>-%</u> -	Color (moist)	%	Type ¹	_Loc ²	Texture	Rer	narks
	- - 215 -					SAILM		
5-11 10YR 414	- 48 -					SA	COARSS	Grained
11-15 10 VR 6/2	95					SA	FINE	aRAINED
-						راحی	3017	J 1015/102 D
		-				-		
					-			
1Type: C=Concentration D=D==								
¹ Type: C=Concentration, D=Depl Hydric Soil Indicators:	etion, RIVI=R	educed Matrix, MS	-Masked	Sand Gra	ins.	² Location: PL:	=Pore Lining, M=N	Matrix.
Histosol (A1)		Dork Curfoss	.0.3/					tic Hydric Soils³:
Histic Epipedon (A2)		Dark Surface (Polyvalue Beld		o (20) /##	. D V 4 4 =		m Muck (A10) (M	
Black Histic (A3)		Folyvalue Beld Thin Dark Surf	w oundo	(IVII PA 44	_KA 14/, 17 110\		ast Prairie Redox	(A16)
Hydrogen Sulfide (A4)	•	Loamy Gleyed			ri, 140)		MLRA 147, 148) dmont Floodplain	Soile (E10)
Stratified Layers (A5)		Depleted Matri		,			MLRA 136, 147)	Cons (1 18)
2 cm Muck (A10) (LRR N)		Redox Dark St	urface (F6	5)			ry Shallow Dark S	urface (TF12)
Depleted Below Dark Surface		Depleted Dark					ner (Explain in Rei	
Thick Dark Surface (A12)	DD M	Redox Depres						
Sandy Mucky Mineral (S1) (L MLRA 147, 148)	KK N,	Iron-Manganes		s (F12) (L	RR N,			
Sandy Gleyed Matrix (S4)		MLRA 136) Umbric Surface		//I DA 136	422)	3122:-		
Sandy Redox (S5)	•	Piedmont Floo					ators of hydrophyl and hydrology mu	ic vegetation and
Stripped Matrix (S6)		Red Parent Ma				•	ss disturbed or pro	
Restrictive Layer (if observed):	•							
Type:		_					•	
Depth (inches):						Hydric Soil P	resent? Yes_	No X
Remarks:	. 1		· · · · · · · · · · · · · · · · · · ·		:			
Remarks: \$DILS LOC	28 E/D	ry unab	LE TI	OPU	'VC 5	501L B8	low 15	
		m FOR						
CEE J	FOR	M FOR	SKE	ITCH	•			
300 H	- 101-							
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Upland data point wdim013_u facing south



Upland data point wdim013_u facing west



Upland data point wdim013_u soil sample

Project/Site: AC	P		Ci	ity/County:	Dinwiddie	Sampling Date: 9/6/2014
Applicant/Owner: Pom	NION	ET A	L		State: VA	Sampling Point: WD/M0/4
Investigator(s): S, GR	OVE /	E.BU	BB s	ection, Townsh		Sampling Foline. VVV / IVE J 4
Landform (hillslope, terrace, e	tc.):TE	RRACE			e, convex, none): NON	E Clara (0/)
Subregion (LRR or MLRA):			07	75 4	Long: -77, 855/3	
Soil Map Unit Name: AP				2-790	A A	
Are climatic / hydrologic condi						
Are Vegetation, Soil _					No (If no, explain in R	
					Are "Normal Circumstances" p	
Are Vegetation, Soil _	, от пус	arology	naturally proble	ematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Atta	ch site r	nap showing s	ampling po	int locations transects	, important features, etc.
!			, ,	1.	The restauration of the re	, important reatures, etc.
Hydrophytic Vegetation Pres	ent?	Yes X	No	Is the Sar	npled Area	
Hydric Soil Present?		Yes X	No	within a V	Vetland? Yes X	No
Wetland Hydrology Present?		Yes X	No			
Remarks: TERREN	F HE	a nize 1	TC 0 11		C105 - 50005	
ENTENTRAL	4 17 C	ベロンしゃ	1210 0 0		SIDE TERRAC	ا .
EPAEMENCHI	3/62	: 43 M	FORMS (a NOR	TH ROW EDG	SE AND
L LEHDS MO	•	//\	PINE PLE	NTA7/C	ON DRAINAGO	E BARELY
DISCERNA	BLE	110	ROW E	2045	NOT MAPPED	ı İ
HYDROLOGY	PHO	TOS	2983 -	2987 (:	SOIL, N, E, S, W	,)
Wetland Hydrology Indicate					Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is req	uired: chec	k all that apply)		Surface Soil (Cracks (B6)
Surface Water (A1)			True Aquatic Plant	ts (B14)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide (🔀 Drainage Pati	terns (B10)·
Saturation (A3)			Oxidized Rhizosph		Roots (C3) Moss Trim Lir	
Water Marks (B1)			Presence of Reduc			Vater Table (C2)
Sediment Deposits (B2)	•		Recent Iron Reduc	ction in Tilled S	oils (C6) 🔀 Crayfish Burro	ows (C8)
Drift Deposits (B3)			Thin Muck Surface	e (C7)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in F	Remarks)	Stunted or Str	ressed Plants (D1)
Iron Deposits (B5)					X Geomorphic F	Position (D2)
Inundation Visible on Aer		37)			Shallow Aquit	ard (D3)
Water-Stained Leaves (B	9)				Microtopograp	
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)
Field Observations:		\.				
Surface Water Present?	Yes	No X	Depth (inches):			
Water Table Present?	Yes	No X	Depth (inches):	-		
Saturation Present?	Yes 💢	No	Depth (inches):	0	Wetland Hydrology Present	? Yes X No
(includes capillary fringe) Describe Recorded Data (stre	am dalido m	onitoring	roll pariel photon	routous Insees	tions) if available	
Describe recorded Data (Sile	aiii yauye, ii	ioriitorii ig v	veii, aeriai priotos, p	nevious inspec	lions), it available:	·
Remarks:		· · · · · · · · · · · · · · · · · · ·	_			
Remarks.						
Marie Control of the					•	
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Profile Description: (Describe to the de		•	or confirn	n the absence o	of indicators.)	
Depth Matrix (inches) Color (moist) %	Redox Color (moist)	Features 7ype ¹	Loc²	Texture	Rema	rke
0-2 10 yr 3/2		70 <u>Type</u>		LM	Neme	11/2
2-5 104R4/1	-		· ———		0.0000	C (A 11 11 A
				SANO		SAND
5-16 10 YR 5/1	10 YR 5 5	<u>_3C_</u>	<u> </u>	SAILM	COARSE	SAND
	-					
			· 			
	-					
Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, MS=	=Masked Sand Gr	ains.	² Location: PL=	=Pore Lining, M=Ma	atrix.
lydric Soîl Indicators:	· · · · · · · · · · · · · · · · · · ·			Indicat	ors for Problemati	c Hydric Soils³:
Histosol (A1)	Dark Surface ((S7)		2 c	m Muck (A10) (MLI	RA 147)
Histic Epipedon (A2)		ow Surface (S8) (N			ast Praîrie Redox (/	\16)
Black Histic (A3)		ace (S9) (MLRA 1	47, 148)		(MLRA 147, 148)) #I- (E4C)
Hydrogen Sulfide (A4)	Loamy Gleyed				edmont Floodplain S (MLRA 136, 147)	ooiis (F19)
Stratified Layers (A5) 2 cm Muck (A10) (LRR N)	Depleted Matri Redox Dark Si				(MLRA 136, 147) ry Shallow Dark Su	rface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark				ner (Explain in Rem	3.
Thick Dark Surface (A12)	Redox Depres				(
Sandy Mucky Mineral (S1) (LRR N,		se Masses (F12) (LRR N,			
MLRA 147, 148)	MLRA 136					
Sandy Gleyed Matrix (S4)		e (F13) (MLRA 13			ators of hydrophytic	
Sandy Redox (S5)		dplain Soils (F19) aterial (F21) (MLR			and hydrology mus ess disturbed or pro	i
Stripped Matrix (S6) Restrictive Layer (if observed):,	Red Falent We	aterial (121) (MLIN	A 121, 14	7) unic	as disturbed of pro-	Jiomano.
Type:			•	Hydric Soil F	resent? Yes	X No
Depth (inches):				1 -	resenti res	
Remarks: NARROW BY	ND OF SANK) IN 501	(PR	OFICE	• - -	.//
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		MDIMO14-	_ ų	•:~		MAPPED
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Army Corps of Engineers		. •		⊏astern	WOULKAILIS ALIU PIEC	ALTOTA - VOISION Z.O

3 /a	Absolute Dominant Indicato	Sampling Point: WD/MO14
ree Stratum (Plot size: 30	% Cover Species? Status	The state of the s
DINUSTAED	I.D FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
LIQUD STRY	50 Y PAC	
avercus rubr	20 Y PACU	Total Number of Dominant Species Across All Strata:
		Species Across All Strata: (B)
		Percent of Dominant Species That Are OBL, FACW or FAC
		That Are OBL, FACW, or FAC: (A/B)
	Total Cover	Prevalence Index worksheet:
	10 20% of total cover: 16	Total % Cover of: Multiply by:
pling Stratum (Plot size:)	20% of total cover: 10	OBL species x1=
ACER RUBE	th 4 -00	FACW species x 2 =
	- 30 y FAC	FAC species x3 =
MAN CALL	_ 4-D _ Y FA(FACU species x 4 =
MAGNOLIA VIRE	- 10 PACK	
LIRLODEN TULIP	<u></u>	UPL species x5=
		Column Totals: (A) (B)
		Prevalence Index = B/A =
	120 = Total Cover	Hydrophytic Vegetation Indicators:
, 50% of total cover: 6	,	1 - Rapid Test for Hydrophytic Vegetation
ub Stratum (Plot size:	20 % of total cover	2 - Domínance Test is >50%
LIQUID STRY	15 Y FAC	3 - Prevalence Index is ≤3.0¹
CARPINUS CAROL	10 TAC	
SAMBUCUS NIGRA		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
PINUS TAED	1110	Problematic Hydrophytic Vegetation¹ (Explain)
	3 FAC	
ILEX OPACA	15 Y FACU	
VACCINIUM CORYMA		I be proposed the land of the dead of the
CLETHERA ALMIFOL	as = Total Cover FA	Definitions of Five Vegetation Strata:
50% of total cover: 4	5 93 of total cover: 16.6	
b Stratum (Plot size: 5)		Tree – Woody plants, excluding woody vines,
OSMUNDA CINNA	10 y FACH	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
ONOCLEA SENS	5. FACU	
PERSECARIA ARIFOLIA	10 Y DEL.	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
ARISAEMA TRIPHYLL	3 FACU	
ACER NEGUNPO	3 FAC	
		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
· · · · · · · · · · · · · · · · · · ·	<u>5. 081</u>	
SUNCUS EFFUS	- 15 Y FAGU	Tions 7 in Hereadded (Herr Woody) plants, including
ANERCUS PRELLOS		herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
WOODWARDIA VIRGIN	to y obl	ft (1 m) in height.
		Woody vino. All woody vince recorded of beint
		Woody vine All woody vines, regardless of height.
	= Total Cover	
50% of total cover: _ 3	20% of total cover: 12-9	
ody Vine Stratum (Plot size: 30)	U	
TOXICODEN RADIC	S Y PAC	
SMILAY ROTUND	ID V FAC	
OLLINATA VOLVIAL		
	the state of the s	
<u> </u>	= Total Cover	Hydrophytic Vegetation

___ 20% of total cover:

50% of total cover: 75

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



Wetland data point wdim014f_w facing south



Wetland data point wdim014f_w facing west



Wetland data point wdim014f_w soil sample

Project/Site: ACP	1. DINWIDDIE Sampling Date: 9/6/201
Applicant/Owner: 30 M / N / O/V F 7 A/	- Tamping Date:
Investigator(s): S. GROVE E. BUB'S Section, To	State: VA Sampling Point: WD/M O
Landform (hillslope, terrace, etc.): 47LLSLOPS Local relief (co	A1 . A(P)
Subregion (LRR for MLRA). LRRP	oncave, convex, none): NONE Slope (%): 15
Soil Map Unit Name: APPLING SANDY IDAM 3-79	Long: -77. 855257 Datum: W6581
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology naturally problematic?	Are "Normal Circumstances" present? Yes No
	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	
anipini	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesNoX	0 1 1 1
Hydric Soil Present? Yes No within	e Sampled Area in a Wetland? Yes No
vvetland Hydrology Present? Yes No	163 NO
Remarks: ON SLIGHT HILLSLOPE ABOVE	11101 111
1) 65.800 (5.50)	WDINOIG, YN
PINE PLANTATION	
	·
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required)
O	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3) Oxidized Rhizospheres on Li Water Marks (B1) Presence of Reduced Iron (C	(= -)
Sediment Deposits (B2) Recent Iron Reduction in Tille	
Drift Deposits (B3) Thin Muck Surface (C7)	
Algal Mat or Crust (B4) — Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Aquatic Fauna (B13)	Microtopographic Relief (D4)
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	·
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wattond Hudra Law Day 10 No.
(includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	spections), if available:
Remarks:	
	•

Profile Desc	ription: (Describe	to the dent	h needed to do	cumont the	Indicator		m the absence of i	Sampling	Point: VOOTING
Depth	Matrix	to the dept		edox Feature		or conner	ii the absence of i	ndicators.)	
(inches)	Color (moist)	%	Color (moist)		_Type ¹	Loc²	Texture	Remark	(8
0-6	10YR 3/3	99					SAILM		
6-16	254 6/6	99					5A		
		· · ·							
					•		-		
				-				,	
			-		-	•			
1									
Hydric Soil In	ncentration, D=Dep	oletion, RM=F	Reduced Matrix,	MS=Masked	Sand Gra	ins.		ore Lining, M=Matr	
Histosol (Dark Surfa	ace (S7)				s for Problematic Muck (A10) (MLRA	• -
	ipedon (A2)			Below Surfac	ce (S8) (M	LRA 147,		: Prairie Redox (A1	•
Black His			Thin Dark	Surface (S9)	(MLRA 14		(MI	_RA 147, 148)	
	n Sulfide (A4) Layers (A5)		Loamy Gle		F2)			nont Floodplain Soi	ils (F19)
	ck (A10) (LRR N)		Depleted I		·6)			LRA 136, 147) Shallow Dark Surfa	ice (TF12)
	Below Dark Surface	e (A11)		Dark Surface				(Explain in Remar	
	rk Surface (A12)			pressions (F	•				
	ucky Mineral (S1) (147, 148)	LRR N,	Iron-Mang MLRA	anese Masse	es (F12) (L	.RR N,			
	eyed Matrix (S4)		Umbric St	•	MLRA 136	6, 122)	³ Indicato	ors of hydrophytic v	regetation and
Sandy Re	edox (S5)		Piedmont	Floodplain S	oils (F19) (MLRA 14	48) · wetland	d hydrology must b	
	Matrix (S6)		Red Parer	nt Material (F	21) (MLRA	127, 147	7) unless	disturbed or proble	ematic.
	ayer (if observed)								•
Type: Depth (incl	has):	/	_				Hydric Soil Pro	sent? Yes	No X
Remarks:	(100).						Tryulle doll i le	36111: 103	160
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VEGETATION	(Five Strata) – Use scientific na	ames of j	olants.		Sampling Point:	WDIMO
Tree Stratum (Pl	. 2	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
1. QUERC	CUS ALBA	3.0	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	(4)
2. QUERC	US RUBR	30	- '	FACU		(A)
3. LIK [0 4. PINU	DEN TULIP	15		FACU	Total Number of Dominant Species Across All Strata:	(B)
4. F 170 U	S TAED	-1D-	-	PAC	Percent of Dominant Species	
6.					That Are OBL, FACW, or FAC:	(A/B)
		85	= Total Cov	/er	Prevalence Index worksheet:	
	50% of total cover: 42.				Total % Cover of: Multip	
Sapling Stratum ((Plot size: 15				OBL species x1=	
1. LIRIOD		35	<u> </u>	FACU	FACW species x 2 = FAC species x 3 =	
2. A.SIMI	INA TRILOBA	15		FAC.	FACU species x 4 =	
3	·		•		UPL species x 5 =	
5.				-	Column Totals: (A)	
6				-	Prevalence Index = B/A =	
		40 =	= Total Cov	/er	Hydrophytic Vegetation Indicators:	***************************************
·	50% of total cover: 20	20% of	total cover	:_8	1 - Rapid Test for Hydrophytic Vege	tation
Shrub Stratum (P	Plot size:)				2 - Dominance Test is >50%	•
1. LIRIODS		30		EXCU	3 - Prevalence Index is ≤3.0 ¹	
2. ACGR 3. FAGUS	RUBR GRANN			<u>FAC</u> FACU	4 - Morphological Adaptations ¹ (Prov data in Remarks or on a separate	∕ide supporting ∍ sheet)
4. LIQUIN		=		FAC	Problematic Hydrophytic Vegetation	¹ (Explain)
5. ILEY	OPAC	5		FAC		
6					¹Indicators of hydric soil and wetland hyd be present, unless disturbed or problema	irology must atic
		45	= Total Cov	er .	Definitions of Five Vegetation Strata:	
	50% of total cover:	20% of	total cover	9.2	Tree – Woody plants, excluding woody v	vines
Herb Stratum (Plo		2		FACW	approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast he	ht and 3 in.
1. FRAY		-5		FACU		
3. BRACHY		7		FACU	Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigh	
4					than 3 in. (7.6 cm) DBH.	
5,				:	Shrub - Woody plants, excluding woody	
6					approximately 3 to 20 ft (1 to 6 m) in heig	int.
7					Herb — All herbaceous (non-woody) plan herbaceous vines, regardless of size, and	
8,					plants, except woody vines, less than ap	
10.					ft (1 m) in height.	
11.				-	Woody vine - All woody vines, regardles	ss of height.
		_2 _=	= Total Cov	er		
·	50% of total cover: 10.	20% of	total cover	<u>: 4.2</u>		
Woody Vine Stratt	um (Plot size: 30)	20	V	EAC		
1. V 15	ROTUND		<u>y</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
3						•
4.					,	
5					Hydrophytic	
		<u> 20</u> =	= Total Cov	er	Vegetation	X
	50% of total cover:		total cover		Present? Yes No	4
Remarks: (Include	e photo numbers here or on a separate s	neet.)				:



Upland data point wdim014_u facing south



Upland data point wdim014_u facing west



Upland data point wdim014_u soil sample

Project/Site: ACP	City/County: NA DINA	110018 Sampling Date: 9/6/20
Applicant/Owner: DOMINION ET	AL Sigresum, 7	State: VA Sampling Point: WD/MO!
Investigator(s): S. GROVE IE.	BUBB Section, Township, Range:_	State. VII Sampling Fount. VVDII to .
Landform (hillslope, terrace, etc.): TERRAC	f Local relief (concave, convex pr	one): <u>CONCAVE</u> Slope (%): <u>5</u>
Subregion (I RR or MI RA): LRRP	at: 37./0/2 2 03	77, 85 372) Datum: W65 8
Soil Map Unit Name: APPLING SANDY		NWI classification:PFO
Are climatic / hydrologic conditions on the site typica		
	•	
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology	and the control of th	al Circumstances" present? Yes X No
Are vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes	No within a Wetland?	Yes X No
Wetland Hydrology Present? Yes X	No	
Remarks: LOTIC WETLAND	IN TERRACE ARE,	A OF SEVERAL
CONVERGING SLOPES		
PHOTOS:	3005-3009 (SOIL,)	N. E C
HYDROLOGY	200 200.2,)	0, 2, 3, 60)
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil Cracks (B6)
	_ True Aquatic Plants (B14)	
High Water Table (A2)	_ Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Z Drainage Patterns (B10)
	✓ Oxidized Rhizospheres on Living Roots (C3)	
Water Marks (B1)	Presence of Reduced Iron (C4)	Moss Triff Lines (B10) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	,	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)	•	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	_ Depth (inches):	
Saturation Present? Yes X No		łydrology Present? Yes 🗶 No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if ava	ilable:
Remarks:	o FITCA II DEC	
SEVERAL DRAINAGE	S ENIER ST OFF	S LOPES
ONLY 1 IS WELL	DEFINED AND WA	SLOPES (SDIMOIR)
·		
	•	
	•	'
	·	

VEGETATION (FIVE GRAM)	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species'	? Status	Number of Dominant Species \ \ \ \
1. PINUS TAEDA	10		- FAC	That Are OBL, FACW, or FAC:(A)
2. ACER RUBRUM	75	<u> </u>	_ FAC_	Total Number of Dominant
3. LIQU STR	40	<u> </u>	<u>fac</u>	Species Across All Strata: (B)
4	•			Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Developed by weather the control of
	125=	= Total Co	ver	Prevalence Index worksheet:
50% of total cover: 60.	5 20% of	total cove	r: 25	
Capling Stratum /Plot size:				OBL species x1=
1. A RUBR	15	Y-	FAC	FACW species x 2 =
2		7	•	FAC species x 3 =
3.				FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6				Prevalence Index = B/A =
0	15	= Total Co	ver	Hydrophytic Vegetation Indicators:
j.		total cove		1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	20% 01		•	2 - Dominance Test is >50%
official official (Front of 201				3 - Prevalence Index is ≤3.0 ¹
1				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5			-	¹ Indicators of hydric soil and wetland hydrology must
6	=	T-1-1 O-		be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
50% of total cover:	20% of t	total cove	•	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5)	er		OBL	approximately 20 ft (6 m) or more in height and 3 in.
1. PERSICARIA LONG		<u> </u>		(7.6 cm) or larger in diameter at breast height (DBH).
2. JUNCUS EFFUS	_5	¥	FACW	Sapling - Woody plants, excluding woody vines,
3. ARISAEMA TRIPHYLL	<u> </u>		FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. BOHSMERYA CYCIN	3		- 1 . W EA	Julian S III. (7.0 GH) BBH.
5. MICROSTEG VIRGIN	20	X	FAC	Shrub – Woody plants, excluding woody vines,
6. CAREX CRINITA	3		OBL	approximately 3 to 20 ft (1 to 6 m) in height.
7. OSMUNDA CINN	_5		FACOU	Herb – All herbaceous (non-woody) plants, including
8. ATHRYLUM ASPLEN	_5	<u>}</u>	FAC	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9. EUPATORIUM PERFOLIA	3		FACW	ft (1 m) in height.
10. RUDBECKIA LACINIATA	15	}	FACH	None de la companya d
11		· · · · · · · · · · · · · · · · · · ·		Woody vine – All woody vines, regardless of height.
	66=	Total Cov	/er	
50% of total cover:33		otal cover	: 19.8	
Woody Vine Stratum (Plot size:)	20% of t			
	20% of to			,
1. SMILAX ROTUNDIF	20% of to	У	FAC	•
1. SMILAX ROTUNDIF 2. LONICERA JAPON	20% of to	У	FAC	
	20% of to	У	FAC FAC	
2 LONICERA JAPON	20% of to	Ϋ́	FAC FAC FACU	
2 LONICERA JAPON	20% of to	À	FAC FAC FACU	
2 LONICERA JAPON	10	Y Y		Hydrophytic
2 LONICERA JAPON 3. PARTHENOCIS QUINQUE 4.	10 15 3 26 =	Y Y Total Cov	er	Vegetation
2. LONICERA JAPON 3. PARTHENOCIS QUINQUE 4. 5. 50% of total cover: 14	10 15 3 26 =	Y Y Total Cov	er	
2 LONICERA JAPON 3. PARTHENOCIS QUINQUE 4. 5.	10 15 3 26 =		er	Vegetation

Profile Desc Depth	Matrix		edox Features				
inches)	Color (moist)	% Color (moist)	%	Type ¹ l	_oc²	Texture	SUGHTLY FIBRIC
) = <u>3</u>	7,5 YR 2516	100 -			,], .		JUDAILY TIPKE
-7	7,54R4/1_	75 7.5 YR 5	16 20			CLILM	
-14	754R5/1	75 75 YR5/	6 20	C PL	- M	CLILIN	<u> </u>
					•		
						•	
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		·				-	
	·						
			<u> </u>		-		
ype: C=C	oncentration, D=Depleti	on, RM=Reduced Matrix	MS=Masked	Sand Grains	3.	² Location: PL	=Pore Lining, M=Matrix.
dric Soil	Indicators:						ors for Problematic Hydric Soils ³ :
_ Histosol		Dark Surf					m Muck (A10) (MLRA 147)
	pípedon (A2)	Polyvalue	Below Surface Surface (S9)			, —	ast Prairie Redox (A16) (MLRA 147, 148)
-	istic (A3) en Sulfide (A4)		eyed Matrix (F		, 140)		edmont Floodplain Soils (F19)
	d Layers (A5)	<u> </u>		,			(MLRA 136, 147)
	uck (A10) (LRR N)	Redox Da	irk Surface (F6				ry Shallow Dark Surface (TF12)
	d Below Dark Surface (A		Dark Surface (Oth	ner (Explain in Remarks)
-,	ark Surface (A12)		pressions (F8)		D. M.		
	Mucky Mineral (S1) (LRR 3 147, 148)	KN, Iron-Mang MLRA	janese Masses	s (F12) (LRI	RN,		
	Gleyed Matrix (S4)		130) urface (F13) (N	ILRA 136, 1	122)	³ Indic	ators of hydrophytic vegetation and
	Redox (S5)		Floodplain Soi				and hydrology must be present,
	Matrix (S6)	Red Pare	nt Material (F2	1) (MLRA 1	27, 147)	unle	ss disturbed or problematic.
estrictive I	_ayer (if observed):	_					
Type:		· · · · · · · · · · · · · · · · · · ·					
Depth (inc	ches):					Hydric Soil P	resent? Yes No
emarks:	1 (- 150)	10 k	15	0 -	*	A. ,
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					(9	1	ountains and Piedmont – Version 2.0
rmy Corps							



Wetland data point wdim015f_w facing north



Wetland data point wdim015f_w facing east



Wetland data point wdim015f_w soil sample

		n Mountains and Piedmont Region
Project/Site: ACP	City/County:	NA DINWIDDIE Sampling Date: 9/6/2014
Applicant/Owner: DOMINION E		State: VA Sampling Point: WDI MOIS
	E BUBB Section, Townsh	ip, Range:
		e, convex, none): CONCAVE Slope (%): 25
Subragion (LBB or MLBA): LBP P	10th 37. 100352	Long: -77.85 3622 Datum: W6S 84
Subjection (LRR of MLRA).		Datum: VVOS BY Datum: VVOS BY Datum: VVOS BY
Are climatic / hydrologic conditions on the site	· · · · · · · · · · · · · · · · · · ·	
re Vegetation, Soil, or Hydro	ology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydro	ology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attac	n site map showing sampling po	oint locations, transects, important features, etc.
Hydric Soil Present? Y	1	mpled Area Wetland? Yes NoX
	-	AND STREAM SDIM 618
ON HILLSTOPE		AL SLOPES CONVERGE
•	MHEKE JEVEN	JE JEJES CONVERGE
	2	
	PHOTOS: 3011-30	15 (SOIL, N.E, S, W)
HYDROLOGY		•
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S	Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B	/)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13) Field Observations:		FAC-Neutral Test (D5)
	No X Depth (inches):	
Water Table Present? Yes		
	No X Depth (inches):	Walland B. 10 Y
(includes capillary fringe)		Wetland Hydrology Present? Yes No_X
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ections), if available:
Remarks:		
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