Project/Site: Atlantic Coast Pipeline	_ City/County: Bath County	Sampling Date: 10/27/2016
Applicant/Owner: Dominion	State: VA	Sampling Point: <u>wbaa003f_w</u>
Investigator(s): GB, AS	Section, Township, Range: No PLSS in this	area
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, convex, none): <u>none</u>	
Subregion (LRR or MLRA): <u>S</u> Lat: <u>38.1323900</u>	5 Long:79.61538601	Datum: WGS 1984
Soil Map Unit Name:	NWI clas	ssification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrology significan	tly disturbed? Are "Normal Circumstance	es" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transe	ects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No		
Remarks:							
Saturated to temporarily flooded PEO wetland on the floodolain of the Cownasture River. Majority of the trees have been planted within the past 10							

Saturated to temporarily flooded PFO wetland on the floodplain of the Cowpasture River. Majority of the trees have been planted within the past 10 to15 years. NCWAM Classification = Bottomland hardwood forest.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
✓ Saturation (A3) Oxidized Rhizospheres on Living Roo	ots (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)
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 <u>V</u> No <u>Depth</u> (inches): <u>3</u>	
Saturation Present? Yes <u>V</u> No Depth (inches): 0	Vetland Hydrology Present? Yes <u>/</u> No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ns), if available:
Remarks:	
Konaks.	

Sampling Point: wbaa003f_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)			Status	
1 Salix nigra	15	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
2. Liriodendron tulipifera	5	No	FACU	
	5	No	FACW	Total Number of Dominant
3. <u>Fraxinus pennsylvanica</u>				Species Across All Strata: 5 (B)
4. Platanus occidentalis	5	No	FACW	Demonstrat Demoiser
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)
6		·		Prevalence Index worksheet:
7	30	<u> </u>		Total % Cover of:Multiply by:
		= Total Cove		
50% of total cover: 15	20% of	total cover:	6	
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x 2 = $
_{1.} Crataegus viridis	15	Yes	FACW	FAC species5 x 3 =15
2 Alnus serrulata	10	Yes	OBL	FACU species5 x 4 =20
3. Lindera benzoin	5	No	FAC	UPL species 0 x 5 = 0
3		110	TAO	150 260
4				Column Totals: (A) (B)
5				Prevalence Index $= B/A = 1.73$
6				
				Hydrophytic Vegetation Indicators:
7		·	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
8		·		2 - Dominance Test is >50%
9				\checkmark 3 - Prevalence Index is ≤3.0 ¹
	30	= Total Cove	r	
50% of total cover:15	20% of	total cover:	6	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
<u>1</u> Dichanthelium scoparium	30	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
••				
2. Carex scabrata	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must
_{3.} Juncus effusus	15	No	FACW	be present, unless disturbed or problematic.
_{4.} Carex scoparia	15	No	FACW	
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		<u> </u>		more in diameter at breast height (DBH), regardless of
7				height.
8				One line (Ohmethin, Manufactor, and all and include
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:45	20% of	total cover:	18	Weady vine All weady vince greater than 2.29 ft in
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			holgha
2		·	<u> </u>	
3		<u> </u>		
3 4				Hydronbytic
4				Hydrophytic Vegetation
		- Total Cove		Hydrophytic Vegetation Present? Yes <u>Ves</u> No
4 5	0.	= Total Cove	•	Vegetation
4 5 50% of total cover:0	 20% of	= Total Cove total cover:_	•	Vegetation
4 5	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation
4 5 50% of total cover:0	 20% of		•	Vegetation

Profile Desc	cription: (Describe t	o the de	pth needed to docun	nent the	indicator of	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-4	10 YR 2/2	100					L	
4-8	10 YR 3/1	85	7.5 YR 4/6	15	С	PL/M	SICL	
8-18	10 YR 4/1	70	10 YR 4/6	30	С	М	SIC	
	oncontration D-Don	otion PM	I=Reduced Matrix, MS	-Mackov	d Sand Gr	inc	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil						airi 5 .	Indicators for Problematic Hydric So	ils ³ :
Histosol Histic E Histic E Hydroge Stratifie C 2 cm Mi Deplete Thick D		. ,	 Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Iron-Mangane 	low Surfa rface (S9 ed Matrix (trix (F3) Surface (F k Surface essions (F) (MLRA 1 (F2) =6) = (F7) 8)	47, 148)	2 cm Muck (A10) (MLRA 147)	
-	A 147, 148)	KK N,	MLRA 13		es (F12) (1	LKK N,		
Sandy C Sandy F	Gleyed Matrix (S4) Redox (S5) Matrix (S6)		Umbric Surfa Piedmont Flo Red Parent M	ce (F13) odplain S	oils (F19)	(MLRA 14		and
Restrictive	Layer (if observed):							
Type: sil	ty clay							
Depth (in	ches): <u>8</u>						Hydric Soil Present? Yes 🖌 No _	
Remarks:								
l								



Wetland data point WBAA003f_w facing east



Wetland data point WBAA003f_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Bath C	County	_ Sampling Date: 10/27/2016
Applicant/Owner: Dominion		State: VA	Sampling Point: wbaa003_u
Investigator(s): GB, AS	Section, Township,	Range: No PLSS in this are	a
Landform (hillslope, terrace, etc.): <u>slope</u>		convex, none): <u>none</u>	
Subregion (LRR or MLRA): S Lat: 38.132	40115	Long: <u>-79.61565825</u>	Datum: WGS 1984
Soil Map Unit Name:		NWI classifi	cation: UPLAND
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes 🗹 N	o (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology sigr	ificantly disturbed? A	re "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nate	urally problematic? (I	f needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling poir	t locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ン ン ン	Is the Sampled Area within a Wetland?	Yes	_ No
Remarks: Upland data point taken on the slope a	bove a saturated	d to temp	oorarily flood	ed PFO wetland located on	the floodplain of	the Cowpasture River.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Aquatic Fauna (B13) 	Dry-Season Water Table (C2)
Field Observations:	
Surface Water Present? Yes No V Depth (inches): Water Table Present? Yes No V Depth (inches): Saturation Present? Yes No V Depth (inches): (includes capillary fringe) Ves No V Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Remarks: no hydrology indicators present	

Sampling Point: wbaa003_u

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)		Species?	Status			
1 Quercus alba	30	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
2. Liriodendron tulipifera	15	Yes	FACU			(~)
3. Juglans nigra	14	Yes	FACU	Total Number of Dominant	8	(D)
4. Carya ovata	6	No	FACU	Species Across All Strata:		(B)
5. Quercus rubra	5	No	FACU	Percent of Dominant Species	25	
		·		That Are OBL, FACW, or FAC:	25	(A/B)
6		·	·	Prevalence Index worksheet:		
7	70	·		Total % Cover of:	Multiply by:	
		= Total Cov				
50% of total cover: <u>35</u>	20% of	total cover:	14		x = 0	_
Sapling/Shrub Stratum (Plot size: 15)				. 20	$x^{2} = \frac{0}{90}$	_
1. Viburnum prunifolium	17	Yes	FACU	FAC species x	(3=	_
_{2.} Lindera benzoin	10	Yes	FAC		x 4 = <u>536</u>	_
3. Rosa multiflora	6	No	FACU		x 5 =0	_
4. Symphoricarpos orbiculatus	5	No	FACU	Column Totals: 164 (A	A) <u>626</u>	(B)
5. Cornus florida	5	No	FACU	、		_ 、 /
6. Elaeagnus umbellata	4	No		Prevalence Index = B/A =		_
7. Berberis thunbergii	3	No	FACU	Hydrophytic Vegetation Indica	ators:	
7. Berbens thunbergh	3	INU	FACU	1 - Rapid Test for Hydrophy	ytic Vegetation	
8		. <u> </u>		2 - Dominance Test is >50%	%	
9		. <u></u>		3 - Prevalence Index is ≤3.0		
	46	= Total Cov				norting
50% of total cover: 25	20% of	total cover:	10	4 - Morphological Adaptatio		
Herb Stratum (Plot size: 5)				data in Remarks or on a	•	
Alliaria petiolata	20	Yes	FACU	Problematic Hydrophytic Ve	egetation' (Expla	in)
2. Microstegium vimineum	5	No	FAC			
3. Carex blanda	3	No	FAC	¹ Indicators of hydric soil and we		must
3				be present, unless disturbed or	problematic.	
4			<u> </u>	Definitions of Four Vegetation	n Strata:	
5				Tree – Woody plants, excluding	wines 2 in (76	cm) or
6		·		more in diameter at breast heigh		
7		. <u></u>		height.	(), 0	
8				Conting/Chruch Woody plants		
9				Sapling/Shrub – Woody plants than 3 in. DBH and greater than		
10.				m) tall.		
11.						
· · ·	28	= Total Cov	or	Herb – All herbaceous (non-woo of size, and woody plants less th		raiess
50% of total cover: 14		total cover:				
Woody Vine Stratum (Plot size: 30)	2070 01			Woody vine – All woody vines	greater than 3.28	3 ft in
Smilax rotundifolia	12	Yes	FAC	height.		
2. Vitis aestivalis	8	Yes	FACU			
		103	1,400			
3						
4		·		Hydrophytic		
5				Vegetation		
	20	= Total Cov	er	Present? Yes	No	
50% of total cover: 10	20% of	total cover:	4			
Remarks: (Include photo numbers here or on a separate sl	heet.)					

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absence of indicators.)
Depth	Matrix			x Features	3		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-2	10YR 3/3	100					SL
2-6	10YR 4/3	100					SL
6-18	10YR 4/4	100					SCL
·				<u> </u>			
							·
	·	<u> </u>					·
	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be				148) Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Date	k Surface	(F7)		Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)		
Sandy N	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	_RR N,	
MLR	A 147, 148)		MLRA 13	6)			
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) wetland hydrology must be present,
Stripped	l Matrix (S6)		Red Parent M	Aaterial (F2	21) (MLR	A 127, 147	7) unless disturbed or problematic.
	Layer (if observed):						
Type: <u>no</u>	ne						
Depth (in	ches):						Hydric Soil Present? Yes No
Remarks:							



Upland data point WBAA003_u facing southwest



Upland data point WBAA003_u facing northwest

Project/Site: Atlantic Coast Pipeline	City/County: Bath County	Sampling Date: 10/28/2016
Applicant/Owner: Dominion	State:	VA Sampling Point: wbaa004e_w
Investigator(s): GB, AS	_ Section, Township, Range: No PLSS in	this area
Landform (hillslope, terrace, etc.): floodplain	.ocal relief (concave, convex, none): <u>none</u>	_
Subregion (LRR or MLRA): <u>S</u> Lat: <u>38.13220217</u>	Long:79.61073509	Datum: WGS 1984
Soil Map Unit Name:	NWI	classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes 🖌 No (If no, exp	lain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumst	ances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain an	y answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, trai	nsects, important features, etc.

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

Saturated to temporarily flooded PEM wetland located on the floodplain of the Cowpasture River (sbaa015); silty clay B horizon perches water table; located between two natural levees; NCWAM key = nontidal Freshwater Marsh.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living I	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	ils (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):	
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present? Yes No 🖌 Depth (inches):	· · ·
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Ves No _ Depth (inches):	
Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Ves 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 inspection	· · ·
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 inspection	
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 inspection	· · ·
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 inspection	· · ·
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 inspection	· · ·
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 inspection	· · ·
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 inspection	· · ·
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 inspection	· · ·

Sampling Point: wbaa004e_w

	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)		Species?		
1. none	0			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
		·		
2		·		Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
				Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 0			0	OBL species25 x 1 =25
50% of total cover: 0	20% of	total cover:	0	25
Sapling/Shrub Stratum (Plot size:)				FACW species $x = 105$
1. none	0			FAC species $x_3 = $
		·		FACU species $0 x 4 = 0$
2		·		
3				UPL species $0 \times 5 = 0$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =2.1
6		·		Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
		·		2 - Dominance Test is >50%
9		·		\checkmark 3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cover		
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
	35	N/s s		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Juncus effusus		Yes	FACW	
2. Persicaria arifolia	20	Yes	OBL	1
3. Panicum virgatum	15	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
<u>4</u> Dichanthelium clandestinum	10	No	FAC	be present, unless disturbed or problematic.
		·		Definitions of Four Vegetation Strata:
5. Solidago rugosa	10	No	FAC	
6. Carex lupulina	5	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
··		·		noight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11	05	·		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:	19	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
none	0			height.
1		· <u> </u>		
2		·		
3				
		· <u> </u>		
4		·		Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes V No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Des	scription: (Describe t	to the de	pth needed to docum	nent the inc	dicator o	or confirm	the absence of indicators.)	
Depth	Matrix			Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-8	10YR 3/1	90	7.5YR 4/6	10	С	PL/M	SICL	
8-18	10YR 5/1	70	10YR 5/8	30	С	М	SIC	
							· · · · · _ ·	
·			. <u> </u>	<u> </u>		<u> </u>		
	Concentration D_Depl	otion DM		-Maakad S	Cond Cro	ino	² Location: DL-Dara Lining M-Matrix	
	Concentration, D=Depl		I=Reduced Matrix, MS	=iviaskeu a	Sand Gra	ans.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
Histos			Dark Surface	(97)			2 cm Muck (A10) (MLRA 147)	
	Epipedon (A2)		Polyvalue Bel		(S8) (M	II RA 147		
	Histic (A3)		Thin Dark Su				(MLRA 147, 148)	
	gen Sulfide (A4)		Loamy Gleye			,,	Piedmont Floodplain Soils (F19)	
• •	ed Layers (A5)		 Depleted Mat 		/		(MLRA 136, 147)	
	/luck (A10) (LRR N)		Redox Dark S	Surface (F6))		Very Shallow Dark Surface (TF12)	
	ed Below Dark Surface	e (A11)	Depleted Dar	k Surface (I	- 7)		Other (Explain in Remarks)	
Thick I	Dark Surface (A12)		Redox Depres	ssions (F8)				
Sandy	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Masses	(F12) (_RR N,		
MLF	RA 147, 148)		MLRA 136	5)				
Sandy	Gleyed Matrix (S4)		Umbric Surfac	ce (F13) (M	LRA 13	6, 122)	³ Indicators of hydrophytic vegetation and	
Sandy	Redox (S5)		Piedmont Flo	odplain Soi	ls (F19)	(MLRA 14		
	ed Matrix (S6)		Red Parent N	laterial (F2	1) (MLR	A 127, 147	7) unless disturbed or problematic.	
Restrictive	E Layer (if observed):							
Type: s								
Depth (i	nches): ⁸						Hydric Soil Present? Yes 🖌 No	
Remarks:	/							
Remarks.	,							



Wetland data point WBAA004e_w facing west



Wetland data point WBAA004e_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Bath County	Sampling Date: 10/28/2016
Applicant/Owner: Dominion	State: VA	Sampling Point: wbaa004_u
Investigator(s): GB, AS	Section, Township, Range: No PLSS in this ar	ea
Landform (hillslope, terrace, etc.): natural levee	ocal relief (concave, convex, none): <u>convex</u>	
Subregion (LRR or MLRA): <u>S</u> Lat: <u>38.13220386</u>	Long:79.61056176	Datum: WGS 1984
Soil Map Unit Name:	NWI classi	fication: UPLAND
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🔽 No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology significantl	y disturbed? Are "Normal Circumstances"	" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	_ No
Remarks:			·		
Upland data point taken on the natural le	evee of the Cov	wpasture River for a	saturated to temporarily floo	ded PEM wetlan	d located on the floodplain.

	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Field Observations:	
Surface Water Present? Yes No <u>r</u> Depth (inches):	
Water Table Present? Yes No <u>/</u> Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
(includes capitally intige)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:

Sampling Point: wbaa004_u

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)		Species?		
1 Quercus palustris	5	Yes	FACW	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 9 (B)
				()
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6		·		
7.				Prevalence Index worksheet:
	5	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 2.			er 1	OBL species x 1 =0
	<u>20% of</u>	total cover:	· ·	10 00
Sapling/Shrub Stratum (Plot size: 15)				FACTV species $x = 100$
1. Symphoricarpos orbiculatus	30	Yes	FACU	FAC species X 3 = 108
2. Rubus argutus	20	Yes	FACU	FACU species 105 x 4 = 420
3. Elaeagnus umbellata	5	No		UPL species $0 x 5 = 0$
3. <u>Elaeagnus unibeliata</u>		INO		151 549
4				Column Totals: (A) (B)
5				0.00
				Prevalence Index = B/A = <u>3.62</u>
6			<u> </u>	Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9		·		3 - Prevalence Index is $≤3.0^1$
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 27.	.5 20% of	total cover:	11	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1. Schedonorus arundinaceus	25	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Solidago rugosa	15	Yes	FAC	1 maile stars of levels on it and wetle set budgets and set
_{3.} Verbesina alternifolia	15	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Sporobolus indicus	15	Yes	FACU	be present, unless disturbed or problematic.
	15	·		Definitions of Four Vegetation Strata:
5. Agrimonia gryposepala		Yes	FACU	
_{6.} Solidago gigantea	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
		·		noight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
11	90			Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:	18	Weedy vine All weedy vince greater than 2.00 ft in
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1 Clematis virginiana	6	Yes	FAC	
1. <u></u>				
2		·		
3.				
1				
4		·		Hydrophytic
5		·		Vegetation
		= Total Cove		Present? Yes No
50% of total cover: 3	20% of	total cover:	1.2	
Demorto: (Include photo numbero haro er en e conorato				
Remarks: (Include photo numbers here or on a separate	sneet.)			

Profile Desc	ription: (Describe to	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix	<u> </u>		x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-4	10YR 3/3	100					SL	
4-11	10YR 3/4	100					SL SL	
11-18	10YR 5/6	100					SICL	
·								—
						·		
¹ Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :	
<u> </u>	(A1)		Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)	
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148) Coast Prairie Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)	
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		Piedmont Floodplain Soils (F19)	
Stratified	Layers (A5)		Depleted Mat	rix (F3)			(MLRA 136, 147)	
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	6)		Very Shallow Dark Surface (TF12)	
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Other (Explain in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)			
Sandy M	lucky Mineral (S1) (LI	RR N,	Iron-Mangane	ese Masse	es (F12) (I	LRR N,		
-	A 147, 148)		MLRA 13	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indicators of hydrophytic vegetation and	
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetland hydrology must be present,	
Stripped	Matrix (S6)		Red Parent M	Aaterial (F	21) (MLR	A 127, 147	") unless disturbed or problematic.	
	_ayer (if observed):							
Type: no	ne							
Depth (ind	ches):						Hydric Soil Present? Yes No	_
Remarks:								



Upland data point WBAA004_u facing east



Upland data point WBAA004_u facing north

Project/Site: Atlantic Coast Pipeline	City/County: Bath County	Sar	mpling Date: 10/29/2016
Applicant/Owner: Dominion			Sampling Point: wbaa006e_w
Investigator(s): GB, AS	Section, Township, Range:	lo PLSS in this area	
Landform (hillslope, terrace, etc.): Floodplain	_ Local relief (concave, convex, n		Slope (%): <u>1</u>
Subregion (LRR or MLRA): S Lat: 38.11543	205 Long: -79	9.59752889	Datum: WGS 1984
Soil Map Unit Name:		NWI classification	ו <u>:</u> PEM
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🖌 No	(If no, explain in Rema	rks.)
Are Vegetation, Soil, or Hydrology signific	cantly disturbed? Are "Norm	al Circumstances" prese	ent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natura	lly problematic? (If needed	, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point locat	ions, transects, im	portant features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u></u> Yes <u> Yes</u> Yes <u> Yes</u>	No No No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Remarks:				
Saturated PEM wetland located on shelf	along intermitt	ent stream sbaa007	NCWAM key = Non-tidal Fre	shwater Marsh.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):16 Saturation Present? Yes No Depth (inches):11 (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: wbaa006e_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)		Species?	Status	Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC: 2 (A)
2				
				Total Number of Dominant Species Across All Strata: 2 (B)
3			<u> </u>	Species Across All Strata: (B)
4		·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
··	0	Tatal Cause		Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	er 0	OBL species x 1 = 4
15	20% 01	total cover:	<u> </u>	15 00
Sapling/Shrub Stratum (Plot size:)				30 60
1. none	0			FAC species $x_3 = $
2				FACU species x 4 =0
				UPL species $0 x 5 = 0$
3				30 04
4		·		Column Totals: (A) (B)
5				Prevalence Index $= B/A = 2.41$
6				
		·		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
	0	= Total Cove	r	
50% of total cover:0		total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
	20% 0	total cover.		data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Verbesina alternifolia	15	Yes	FAC	
2. Panicum dichotomiflorum	12	Yes	FACW	
3. Carex blanda	5	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
	4	No	OBL	be present, unless disturbed or problematic.
4. Chelone glabra				Definitions of Four Vegetation Strata:
5. Viola cucullata	3	No	FACW	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		·		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	39			Herb – All herbaceous (non-woody) plants, regardless
10.1		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:19.5	20% of	total cover:	7.8	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1. none	0			
		·		
2		·		
3		·		
4				Hydrophytic
5				Vegetation
		Tatal Cause		Present? Yes <u>No</u>
50% of total cover: 0		= Total Cove	~	
50% of total cover:0	20% 01	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Profile Desc	cription: (Describe t	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/3	100					SL	
4-8	10YR 5/3	100					SCL	
8-18	2.5Y 4/1	70	7.5YR 4/6	30	С	PL/M	SICL	
						·		
·						·		
						·		
·						·		
						·		
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface					Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be				148) Coas	t Prairie Redox (A16)
	stic (A3)		Thin Dark Su	• •		47, 148)	•	LRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		Piedr	nont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(M	LRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	•	,			Shallow Dark Surface (TF12)
·	d Below Dark Surface	(A11)	Depleted Dar		. ,		Othe	r (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy N	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	6, 122)	³ Indicat	ors of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetlan	d hydrology must be present,
Stripped	l Matrix (S6)		Red Parent M	Material (F	21) (MLR	A 127, 147	') unless	disturbed or problematic.
	Layer (if observed):							
Type: <u>no</u>	ne							
Depth (in	ches):						Hydric Soil Pre	esent? Yes 🖌 No
Remarks:								



Wetland data point WBAA006e_w facing south



Wetland data point WBAA006e_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Bath County		Sampling Date: 10/29/2016
Applicant/Owner: Dominion			Sampling Point: wbaa006_u
Investigator(s): GB, AS	Section, Township, Range:	No PLSS in this area	
Landform (hillslope, terrace, etc.): <u>floodplain</u>	Local relief (concave, convex, i		Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>S</u> Lat: <u>38.1154</u>	7676 Long: <u>-7</u>	9.5974159	Datum: WGS 1984
Soil Map Unit Name:		NWI classific	ation: UPLAND
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🖌 No	_ (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology signifi	cantly disturbed? Are "Norn	nal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natura	ally problematic? (If needed	d, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point loca	tions, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point taken on the floodpla	ain of intermitter	nt stream sbaa007 fo	r a saturated PEM wetland	ocated on a pai	r of shelves along stream.

High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)	Wetland Hydrology Indicate	ors:				Secondary Indicators (minimum of two required)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C1) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5) Field Observations: Ves No Depth (inches): Surface Water Present? Yes No Depth (inches): (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Primary Indicators (minimum	of one is rec	quired; chec	k all that apply)		Surface Soil Cracks (B6)
Surface Water Present? Yes No _ Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Ves No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	 High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E Aquatic Fauna (B13) 			Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	. ,	 Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Water Table Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No ✓ Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Femarks:						
Saturation Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Water Present?					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Water Table Present?	Yes	No	Depth (inches):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		Yes	No	Depth (inches):	Wetland H	Hydrology Present? Yes No
	Describe Recorded Data (stre	eam gauge,	monitoring v	well, aerial photos, previous inspec	ctions), if ava	ailable:
insufficient hydrology indicators present	Remarks:					
	insufficient hydrology indicato	rs present				

Sampling Point: wbaa006_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus alba	40	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Pinus strobus	30	Yes	FACU	
3. Acer rubrum	10	No	FAC	Total Number of Dominant Species Across All Strata: 6 (B)
4	·			
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6	·			Prevalence Index worksheet:
7				
	80	= Total Cove		<u>Total % Cover of:</u> <u>Multiply by:</u>
50% of total cover: 40	20% of	total cover:	16	OBL species 10 $x_1 = 0$
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x 2 = 20$
_{1.} Pinus strobus	10	Yes	FACU	FAC species26 x 3 =78
2. Acer rubrum	10	Yes	FAC	FACU species x 4 = 404
3. Quercus alba	4	No	FACU	UPL species 0 x 5 = 0
4. Nyssa sylvatica	3	No	FAC	Column Totals: 137 (A) 502 (B)
	·			
5. Cornus florida	3	No	FACU	Prevalence Index = $B/A = 3.66$
6				Hydrophytic Vegetation Indicators:
7				
8		-	-	1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
- 5. <u></u>	30	= Total Cove		$_$ 3 - Prevalence Index is $\leq 3.0^1$
50% of total cover:15		total cover:	6	4 - Morphological Adaptations ¹ (Provide supporting
56% of total cover:	20% 01	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:) 1. Panicum dichotomiflorum	10	Ma a		Problematic Hydrophytic Vegetation ¹ (Explain)
		Yes	FACW	(
2. Polystichum acrostichoides	10	Yes	FACU	¹ Indiantors of hydria soil and watland hydrology must
_{3.} Solidago caesia	4	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_{4.} Viola sororia	3	No	FAC	Definitions of Four Vegetation Strata:
5				Deminions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	·			more in diameter at breast height (DBH), regardless of
7	·			height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	27	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 13.		total cover:		
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
	·			
2	·	·		
3	·			
4				Hydrophytic
5				Vegetation
	-	= Total Cove	r	Present? Yes No V
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s				
	sneet.)			

Profile Desc	ription: (Describe to	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence of indicators.)
Depth	Matrix	<u> </u>		x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-6	10YR 4/4	100					SL
6-13	10YR 5/4	100					SL
13-18	10YR 5/3	100					SCL
·							
						·	
¹ Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :
<u> </u>	(A1)		Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	LRA 147,	148) Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	· ,	•		Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	6)		Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)		
Sandy M	lucky Mineral (S1) (LI	RR N,	Iron-Mangane	ese Masse	es (F12) (_RR N,	
-	A 147, 148)		MLRA 130	6)			
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	") unless disturbed or problematic.
	_ayer (if observed):						
Type: no	ne						
Depth (ind	ches):						Hydric Soil Present? Yes No
Remarks:							



Upland data point WBAA006_u facing south



Upland data point WBAA006_u facing east

Project/Site: Atlantic Coast Pipeline	City/County: Bath Co	unty	Sampling Date: 10/29/2016
Applicant/Owner: Dominion			_ Sampling Point: wbaa005f_w
Investigator(s): GB, AS	Section, Township, R	ange: No PLSS in this area	
Landform (hillslope, terrace, etc.): floodplain			hy Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>S</u> Lat: <u>38.112133</u>			
Soil Map Unit Name:		NWI classifica	ution: PFO
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes 🖌 No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are	e "Normal Circumstances" pr	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natural	ly problematic? (If r	needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ving sampling point	locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes 🗸 No			

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

Saturated PFO wetland located on the floodplain of and connected to perennial stream sbaa019; stream sbaa003 ends within the wetland as the channel is lost upon entry; NCWAM key = Headwater Forest.

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	 True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) 	Dry-Season Water Table (C2)
Field Observations:		
Surface Water Present? Yes No Water Table Present? Yes No	✓ Depth (inches): 12 Depth (inches): 8 Wet	land Hydrology Present? Yes _ ✔ No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections)	if available:
Remarks:		

Sampling Point: wbaa005f_w

	Abaaluta	- Dominant Ir	diaatar	Deminence Test worksheet:
Tree Stratum (Plot size:30)	Absolute	Dominant Ir Species?	Status	Dominance Test worksheet:
1. Quercus alba	<u>10 10 10 10 10 10 10 10 10 10 10 10 10 1</u>	Yes	FACU	Number of Dominant Species
	10			That Are OBL, FACW, or FAC:7 (A)
_{2.} Nyssa sylvatica		Yes	FAC	Total Number of Deminant
3. Acer rubrum	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 9 (B)
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 77.77777777 (A/B)
6				
				Prevalence Index worksheet:
7	30	·		Total % Cover of: Multiply by:
		= Total Cover		10 10
50% of total cover: 15	20% of	total cover:	6	$\frac{12}{13}$
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x 2 = $
Pinus strobus	6	Yes	FACU	FAC species49 x 3 =147
••	4	Yes	FAC	FACU species 16 x 4 = 64
2. Acer rubrum	4	165	FAC	
3				UPL species x 5 =
4				Column Totals: (A) (B)
5		·		Prevalence Index = $B/A = 2.8$
6		. <u></u>		Hydrophytic Vegetation Indicators:
7				
				1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is $\leq 3.0^1$
	10	= Total Cover		
50% of total cover: 5		total cover:	2	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
	15		540	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Microstegium vimineum	15	Yes	FAC	· · · · · · · · · · · · · · · · ·
_{2.} Carex gynandra	10	Yes	OBL	
3. Dichanthelium clandestinum	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Packera aurea	10	Yes	FACW	be present, unless disturbed or problematic.
		165		Definitions of Four Vegetation Strata:
5. Viola cucullata	3	No	FACW	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		·		height.
8				Sanling/Shrub Weady planta avaluding vinas loss
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	48	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 24		total cover:		
				Woody vine – All woody vines greater than 3.28 ft in
	0			height.
1. none	0			
2				
3				
4		·		Hydrophytic
5				Vegetation
	_	= Total Cover		Present? Yes Vo No
50% of total cover: 0		total cover:		
		total cover.		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the dep	oth needed to docur	nent the	indicator	or confirm	the absence of	indicators.)		
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 3/2	100		_			SCL			
3-8	10YR 4/2	100					SCL			
8-18	10YR 4/1	94	10YR 5/8	6	С	PL/M	CL			
¹ Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	d Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix.		
Hydric Soil								ors for Problematic Hydric Soils ³ :		
Histosol	(A1)		Dark Surface	e (S7)			2 cn	n Muck (A10) (MLRA 147)		
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ice (S8) (N	ILRA 147,	148) Coa	st Prairie Redox (A16)		
Black Hi	istic (A3)		Thin Dark Su	ırface (S9) (MLRA 1	47, 148)	()	MLRA 147, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piec	dmont Floodplain Soils (F19)		
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)			
	uck (A10) (LRR N)		Redox Dark	•	,		Very Shallow Dark Surface (TF12)			
	d Below Dark Surface	e (A11)	Depleted Da				Other (Explain in Remarks)			
	ark Surface (A12)		Redox Depre							
	/lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	LRR N,				
	A 147, 148)		MLRA 13				0			
	Bleyed Matrix (S4)		Umbric Surfa	, ,	•			tors of hydrophytic vegetation and		
	Redox (S5)		Piedmont Flo	•	, ,	•	•	nd hydrology must be present,		
	I Matrix (S6)		Red Parent N	Aaterial (F	⁻ 21) (MLR	A 127, 147) unles	s disturbed or problematic.		
	Layer (if observed):									
Type: <u>no</u>	ne									
Depth (in	ches):						Hydric Soil Pr	resent? Yes 🖌 No		
Remarks:							·			
i										



Wetland data point WBAA005f_w facing north



Wetland data point WBAA005f_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Ba	th County	_ Sampling Date: 10/29/2016
Applicant/Owner: Dominion		State: VA	Sampling Point: wbaa005_u
Investigator(s): GB, AS	Section, Townsl	nip, Range: <u>No PLSS in this are</u>	ea
Landform (hillslope, terrace, etc.): toe of slope		re, convex, none): <u>none</u>	
Subregion (LRR or MLRA): S	at: <u>38.11210583</u>	Long: <u>-79.59114804</u>	Datum: WGS 1984
Soil Map Unit Name:		NWI classif	ication: UPLAND
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling p	oint locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No_ / No_ / No_ /	Is the Sampled Area within a Wetland?	Yes	No	
Remarks:						
Upland data point taken on the toe of s	slope above a	saturated PFO wetla	nd located on the floodplain o	of perennial str	eam sbaa019.	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Field Observations:	
Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes No ✓ Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:

Sampling Point: <u>wbaa005_u</u>

	Absolute	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)			Status	
, Quercus alba	45	Yes	FACU	Number of Dominant Species
2. Acer rubrum	12	No	FAC	That Are OBL, FACW, or FAC: (A)
	10	No	FACU	Total Number of Dominant
3. Pinus strobus				Species Across All Strata: 6 (B)
4. Quercus rubra	5	No	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33333333 (A/B)
_				That Ale OBL, FACW, OF FAC. (A/B)
6		· ·		Prevalence Index worksheet:
7	72	· ·		Total % Cover of: Multiply by:
		= Total Cover		
50% of total cover: <u>36</u>	20% of	total cover:	14.4	
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. Cornus florida	12	Yes	FACU	FAC species $32 \times 3 = 96$
2. Acer rubrum	10	Yes	FAC	FACU species x 4 = 376
3. Pinus strobus	6	No	FACU	UPL species $\frac{6}{x 5} = \frac{30}{30}$
				132 502
4. Ostrya virginiana	6	No	FACU	Column Totals: (A) (B)
5				Prevalence Index $= B/A = 3.8$
6.				
		· ·		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is $\leq 3.0^1$
	34	= Total Cover		
50% of total cover: 17		total cover:	6.8	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
<u>1</u> Microstegium vimineum	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Elymus hystrix	6	Yes	UPL	¹ Indiactors of hydric coil and watland hydrology must
3. Bromus pubescens	6	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Luzula multiflora	4	No	FACU	
5. Potentilla canadensis	4	No		Definitions of Four Vegetation Strata:
5. <u></u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8.				
9				Sapling/Shrub – Woody plants, excluding vines, less
		· ·		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	30	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15	20% of	total cover:	6	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
	0			height.
		·		
2		·		
3				
4				the described in
5.				Hydrophytic Vegetation
	0	Tatal O		Present? Yes No
50% of total cover: 0		= Total Cover	~	
50% of total cover: 0	20% of	total cover:	<u> </u>	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Redox	k Features	6		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-5	10YR 4/4	100					SCL
5-18	10YR 5/6	100					SCL
·				. <u> </u>			
·			<u> </u>				· · · · · · · · · · _ /
	oncentration, D=Deple	tion DM D		Maakad			² Location: PL=Pore Lining, M=Matrix.
Hydric Soil			euuceu mainx, ma	s=iviaskeu	Sanu Gra	aii 15.	Indicators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(97)			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be	· · ·	(S8) (N	II RA 147	
	stic (A3)		Thin Dark Su		· · ·		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	. ,	•	,,	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S	. ,	6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,		Other (Explain in Remarks)
Thick Da	ark Surface (A12)	. ,	Redox Depre				
Sandy M	/lucky Mineral (S1) (LF	RR N,	Iron-Mangane	ese Masse	es (F12) (I	LRR N,	
MLRA	A 147, 148)		MLRA 130	6)			
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indicators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	(8) wetland hydrology must be present,
	l Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	7) unless disturbed or problematic.
	Layer (if observed):						
Type: <u>no</u>	ne						
Depth (in	ches):		_				Hydric Soil Present? Yes No
Remarks:							



Upland data point WBAA005_u facing southwest



Upland data point WBAA005_u facing northwest

Project/Site: Atlantic Coast Pipeline	City/County: Bath	1 County	_ Sampling Date: 4/27/2016
Applicant/Owner: Dominion		State: VA	Sampling Point: wbaa002e_w
Investigator(s): GB, SH, SS	Section, Townshi	p, Range: <u>No PLSS in this are</u>	а
Landform (hillslope, terrace, etc.): Swale		, convex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): S	at: <u>38.09244585</u>	_ Long: <u>-79.57178135</u>	Datum: WGS 1984
Soil Map Unit Name:		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typica	I for this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling po	int locations, transects	s, 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 🖌	No			
Remarks:					
SATURATED SEEP WETLAND IN SWA PBAA001; CONNECTED TO SBAA002.			BETWEEN STREAMS SBAA00)1 & SBAA002;	HYDROLOGY FROM SEEP

Wetland Hydrology Indicato	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; c	heck all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor (C1)		 Drainage Patterns (B10)
 Saturation (A3) 		Oxidized Rhizospheres on Living	Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Second	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)		Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)		Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aer	ial Imagery (B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B	9)			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):14		
Saturation Present?	Yes 🖌 No 🔤	Depth (inches):11	Wetland I	Hydrology Present? Yes 🖌 No
(includes capillary fringe)				9.11
Describe Recorded Data (stre	am gauge, monitori	ng well, aerial photos, previous inspec	ctions), if ava	allable:
Remarks:				
Romano.				

Sampling Point: wbaa002e_w

Tree Stratum (Plot size: 30) % Cover Species 2 strate Number of Dominant Species 4 (A) 2 10 Yes FAC Trate Are DEL, FACW, or FAC: 4 (A) (A) 2 10 FAC FAC Species Arons Al Strate: 5 (B) 4 10 FTotal Cover 5 (B) Prevalence index worksheet 5 (B) 7 10 FTotal Cover 2 B0 (VB) Prevalence index worksheet 10 7 10 FTotal Cover 2 Corpicus careliniana 4 Yes FAC Prevalence index worksheet 7 10 FTotal Cover 2 10 FAC Prevalence index worksheet 10 12 10 Prevalence index worksheet 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 10 10 10 10 10 <t< th=""><th></th><th></th><th>Absolute</th><th>Dominant Ir</th><th>ndicator</th><th>Dominance Test worksheet:</th><th></th></t<>			Absolute	Dominant Ir	ndicator	Dominance Test worksheet:	
1, Aler (Julium) 10 Yes PAC That Are OBL, FACW, or FAC: 4 (A) 2		30)	% Cover				
3.	1. Acer rubrum		10	Yes	FAC		(A)
3.	2.						
4.						E CONTRACTOR E	(R)
5.							(5)
6							
7.						That Are OBL, FACW, or FAC:	(A/B)
Image: constraint of the structure is the s						Provalance Index worksheet:	
10/04 Use is in the interval of total cover: 2 OBL species $\frac{45}{5}$ x 1 = $\frac{45}{10}$ Sapling/Shub Stratum (Plot size: $\frac{15}{2}$) OBL species $\frac{45}{5}$ x 1 = $\frac{45}{10}$ ACW species $\frac{5}{5}$ x 2 = $\frac{10}{10}$ Carpinus caroliniana A Yes FACU species $\frac{14}{5}$ x 3 = $\frac{42}{32}$ Carpinus caroliniana A Yes FACU species $\frac{14}{5}$ x 3 = $\frac{42}{32}$ Carpinus caroliniana A Yes FACU species $\frac{14}{5}$ x 3 = $\frac{42}{32}$ Carpinus caroliniana A Yes Calumn totals: 72 (A) 129 (B) Prevalence Index = B/A = 1.79 Herb Stratum (Plot size: 5) Prevalence Index is 3.0° Solv of total cover: 6 20 Yes OBL Indicorer schedus 5 No Prevalence Index is 3.0° Solv of total cover: 6 20 Yes OBL Carion x strict 2 Solv of total cover: 6 No Prevalence Index is	7						
Solve of total cover:							
Sapling/Shrub Stratum (Plot size:15) 15 FACU species14x34442 2. Carpinus caroliniana 4 Yes FACU species14x34444242442424244			20% of	total cover:	2		-
1. Vburnum prunteilum 8 Yes FACU FAC species 14 X 3 = 42 2. Carpinus caroliniana 4 Yes FAC FAC species 8 X 4 = 32 3.	Sapling/Shrub Stratum (Plot size): <u>15</u>)				FACW species $x 2 = 10$	-
2 Carpinus caroliniana 4 Yes FAC FAC FAC VPL species $x 4 = \frac{1}{29}$ 3	1. Viburnum prunifolium		8	Yes	FACU	FAC species X 3 =	_
2			4	Yes	FAC	FACU species8 x 4 =32	
3. Column Totals: 72 (A) 129 (B) 5. Column Totals: 72 (A) 129 (B) 6. 129 (B) 7. 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 2 Dominance Test is >50% 12 2 2 Dominance Test is >50% 12 2 2 2 Dominance Test is >50% 12 2 2 2 Dominance Test is >50% 12 Prevalence Index is s30 12 Problematic Hydrophytic Vegetation Idicators: 10 Packera aurea 5 No OBL<							
5						72 120	(D)
6.	4			·			_ (D)
6.	5					Prevalence Index = B/A = 1.79	
7.							<u> </u>
8.							
9. 12 = Total Cover 50% of total cover: 6 20 Yes 0. 24 Herb Stratum (Plot size: 5) 1. Carex scabrata 20 Yes 2. Carex stricta 20 Yes 3. Symplocarpus foetidus 5 No 4. Packera aurea 5 5. Some OBL 9.							
12 = Total Cover 50% of total cover: 6 20% of total cover: 2.4 1. Carex scbrata 20 2. Carex stricta 20 3. Symplocarpus foetidus 5 4. Packera aurea 5 5. No 6.						2 - Dominance Test is >50%	
12 = Total Cover 2.4 10 20% of total cover: 2.4 11 20% of total cover: 2.4 11 20% of total cover: 2.4 11 20% of total cover: 2.4 12 20% of total cover: 2.4 20% of total cover: 2.0 Yes 20% of total cover: 0.00 20% of total cover: 0.00 </td <td>9</td> <td></td> <td>10</td> <td></td> <td></td> <td>✓ 3 - Prevalence Index is $\leq 3.0^1$</td> <td></td>	9		10			✓ 3 - Prevalence Index is $\leq 3.0^1$	
50% of total cover: 0 20% of total cover: 2.4 Herb Stratum (Plot size: 5 0 Personal 20 2 Carex stricta 20 Yes OBL Problematic Hydrophytic Vegetation ¹ (Explain) 3. Symplocarpus foetidus 5 No OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Packera aurea 5 No FACW Definitions of Four Vegetation Strata: 7.		0					ortina
Herb Stratum (Plot size:			20% of	total cover:	2.4		0
1. Carex scabrata 20 Yes OBL 2. Carex stricta 20 Yes OBL 3. Symplocarpus foetidus 5 No OBL 4. Packera aurea 5 No FACW 5. No FACW 6.	Herb Stratum (Plot size:	5)					
2. Carex stricta 20 Yes OBL 3. Symplocarpus foetidus 5 No OBL 4. Packera aurea 5 No FACW 5	1. Carex scabrata		20	Yes	OBL	Problematic Hydrophytic Vegetation (Explain	n)
3. Symplocarpus foetidus 5 No OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Packera aurea 5 No FACW 5			20	Yes	OBL		
4. Packera aurea 5 No FACW Depresent, unless disturbed of problemate. 5.			5	·			nust
5.	· · ·			·			
5.				INO	FACVV	Definitions of Four Vegetation Strata:	
6.	5					-	
7.						Tree – Woody plants, excluding vines, 3 in. (7.6 c	cm) or
8.							SS OI
9.						neight.	
10. m) tall. 11. 50° of total cover: 25° 20° of total cover: 10° Woody Vine Stratum (Plot size: 30°) 1. 1. 30°) 1. 30°) 1. 30°) 1. 30°) 1. 30° 2. 30° 3. 30° 4. 30° 5. 30° 50° of total cover: 0° 0° = Total Cover 50° of total cover: 0°							
11. 50% of total cover: 50 = Total Cover 10 Woody Vine Stratum (Plot size: 30) 10 Woody vine - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 2. 30) 10 Woody vine - All woody vines greater than 3.28 ft tall. 3.	9						ft (1
$\frac{50}{20\% \text{ of total cover:}} = \text{Total Cover}$ $\frac{50}{20\% \text{ of total cover:}} = \text{Total Cover}$ $\frac{50\% \text{ of total cover:}}{20\% \text{ of total cover:}} = 10$ $\frac{10}{10\% \text{ of size.}} = \frac{30\%}{20\% \text{ of total cover:}} = 10$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ of size.}}{10\% \text{ of size.}} = -\text{All woody vines greater than 3.28 ft tall.}$	10					m) tall.	
$\frac{50}{20\% \text{ of total cover:}} = \text{Total Cover}$ $\frac{50}{20\% \text{ of total cover:}} = 10$ $\frac{50\% \text{ of total cover:}}{20\% \text{ of total cover:}} = 10$ $\frac{10}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$ $\frac{10\% \text{ ody vine}}{10\% \text{ ody vine}} - \text{All woody vines greater than 3.28 ft tall.}$	11					Herb – All herbaceous (non-woody) plants, regard	dless
$50\% \text{ of total cover:} \underline{25} 20\% \text{ of total cover:} 10$ Woody Vine Stratum (Plot size: <u>30</u>) $1. \underline{\qquad} \\ 2. \underline{\qquad} \\ 3. \underline{\qquad} \\ 4. \underline{\qquad} \\ 5. \underline{\qquad} \\ 5. \underline{\qquad} \\ 50\% \text{ of total cover:} \underline{0} \underbrace{0}_{=} \text{ Total Cover} \\ 50\% \text{ of total cover:} \underbrace{0}_{20\% \text{ of total cover:}} \underbrace{0}_{20\% \text{ of total cover:}} \underbrace{10}_{Woody \text{ vines greater than 3.28 ft in height.}}$			50	= Total Cover	r		uiuuu
Woody Vine Stratum (Plot size:30) Woody Vine - All Woody Vines greater than 3.28 ft in height. 1		50% of total cover: 25					
1.			_			•	ft in
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		/				height.	
3.							
4.							
5 $0 = \text{Total Cover}$ 50% of total cover: 20% of total cover: 0 = \ Yes No	3						
5 $0 = \text{Total Cover}$ 50% of total cover: 20% of total cover: 0 = \ Yes No	4					I have be the	
50% of total cover: 0 20% of total cover: 0	·		-	- Total Cove		Present? Yes <u>V</u> No	
		E0% of total cover: 0			<u> </u>		
Remarks: (Include photo numbers here or on a separate sheet.)				เป็นสา เป็นอา.			
	Remarks: (Include photo numbe	rs here or on a separate s	heet.)				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			k Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR4/3	100					CL	
7-18	10YR4/1	90	7.5YR 4/6	10	С	PL/M	CL	
	oncentration, D=Depl	etion, RM	EReduced Matrix, MS	S=Masked	d Sand Gra	ains.		Pore Lining, M=Matrix.
Hydric Soil								rs for Problematic Hydric Soils ³ :
Histosol	()		Dark Surface	· · ·				n Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				·	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	• •	-0)		•	ILRA 136, 147)
	uck (A10) (LRR N)	(111)	Redox Dark S		,		- ·	Shallow Dark Surface (TF12)
·	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Dar Redox Depre					er (Explain in Remarks)
	Mucky Mineral (S1) (L		Iron-Mangane					
	A 147, 148)	nn N,	MLRA 136		es (F12) (I			
	Gleyed Matrix (S4)		Umbric Surfa	•	(MI RA 13	6 122)	³ Indicat	tors of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	()	•			nd hydrology must be present,
	d Matrix (S6)		Red Parent M	•	. ,	•	•	s disturbed or problematic.
	Layer (if observed):			iatoriai (i		,	/	
Type: no								
							Hydric Soil Pre	esent? Yes 🖌 No
Depth (in							Hyunc Soll Pre	
Remarks:								



Photo 1 Wetland data point WBAA002e_w facing southeast



Photo 2 Wetland data point WBAA002e_w facing west

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Bath	County	_ Sampling Date: 4/27/2016
Applicant/Owner: Dominion		State: VA	Sampling Point: wbaa002_u
Investigator(s): GB, SH, SS	Section, Townshi	p, Range: <u>No PLSS in this are</u>	а
Landform (hillslope, terrace, etc.): floodplain		, convex, none): <u>none</u>	
Subregion (LRR or MLRA): <u>S</u> Lat: <u>3</u>	8.09241652	Long: <u>-79.57175552</u>	Datum: WGS 1984
Soil Map Unit Name:		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_ naturally problematic?	(If needed, explain any answe	ers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	<u> イ イ イ イ イ イ イ イ イ イ イ イ イ イ イ イ イ イ イ</u>	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:			a a su a fila a a d				
Upland data point taken on floodplain f	or a saturated P	'EIVI See	ep wetland.				

HYDROLOGY

	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled 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 V Depth (inches):	
	nd Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:
	available:
	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if Remarks:	available:

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

Sampling Point: wbaa002_u

	Absolute	Dominant Ir	diaatar	Deminance Test werksheet
Tree Stratum (Plot size: <u>30</u>)			Status	Dominance Test worksheet:
1 Pinus strobus	20	Yes	FACU	Number of Dominant Species
1.	15			That Are OBL, FACW, or FAC:4 (A)
2. Quercus alba		Yes	FACU	Total Number of Dominant
_{3.} Carya ovata	15	Yes	FACU	Species Across All Strata: 11 (B)
4. Acer saccharum	15	Yes	FACU	
	5	No	FACU	Percent of Dominant Species
5. Prunus serotina			17100	That Are OBL, FACW, or FAC: <u>36.36363636</u> (A/B)
6				
7.				Prevalence Index worksheet:
·· <u> </u>	70	Tatal Original		Total % Cover of: Multiply by:
50% of total cover: 35		= Total Cover	. 14	OBL species 0 x 1 = 0
50% of total cover: <u>35</u>	20% of	total cover:	14	
Sapling/Shrub Stratum (Plot size:)				FACW species $x 2 = \frac{10}{57}$
_{1.} Carya ovata	5	Yes	FACU	FAC species $x_3 = $
2. Cornus florida	2	Yes	FACU	FACU species x 4 = 332
3. Rosa multiflora	2	Yes	FACU	UPL species $0 \times 5 = 0$
3		163	1700	102 380
4				Column Totals: (A) (B)
5				0.04
				Prevalence Index = B/A =3.81
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
				2 - Dominance Test is >50%
9	9			3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 4.5	20% of	total cover:	1.8	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1. Erythronium umbilicatum	5	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	5		FAC	
2. Carex blanda		Yes		¹ Indicators of hydric soil and wetland hydrology must
3. Chasmanthium laxum	4	Yes	FAC	be present, unless disturbed or problematic.
4. Thalictrum thalictroides	2	No	FACU	
5. Podophyllum peltatum	2	No	FACU	Definitions of Four Vegetation Strata:
5. reacphyllan pollatan			1 400	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
		·		Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Harb All borbassaya (non woody) planta regardless
	18	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 9				
	20% of	total cover:	0.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
_{1.} Toxicodendron radicans	5	Yes	FAC	
2				
		·		
3				
4				Hydrophytic
5				Vegetation
		Tatal Original		Present? Yes No
		= Total Cover	4	
50% of total cover: 2.5	20% of	total cover:	·	
Remarks: (Include photo numbers here or on a separate s	heet.)			
	,			

Profile Des	cription: (Describe t	o the depth	needed to docum	nent the in	dicator o	or confirm	the absence of	of indicato	rs.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3	10YR 3/3	100					SCL			
3-18	10YR 4/6	100					SCL			
				Maakad	Cand Cra		² Leastion: DI	Doro Linir	a M Matrix	
Hydric Soil	oncentration, D=Deple	etion, Rivi=F	Reduced Matrix, Ma	S=IVIASKED	Sand Gra	ains.	² Location: PL		oblematic Hy	dric Soils ³
Histosol			Dark Surface	(97)					(10) (MLRA 1	
	pipedon (A2)		Polyvalue Be	. ,	م (88) (M	I RA 147			Redox (A16)	+/)
	istic (A3)		Thin Dark Su					(MLRA 14	. ,	
	en Sulfide (A4)		Loamy Gleye			,,		•	odplain Soils ((F19)
	d Layers (A5)		Depleted Ma		,			(MLRA 13		- /
	uck (A10) (LRR N)		Redox Dark		6)				Dark Surface	(TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dar	k Surface	(F7)		Ot	her (Explai	n in Remarks)	
	ark Surface (A12)		Redox Depression	ssions (F8)					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) (l	_RR N,				
	A 147, 148)		MLRA 13				3			
-	Gleyed Matrix (S4)		Umbric Surfa					•	drophytic veg	
	Redox (S5)		Piedmont Flo		. ,	•	•	•	ogy must be p	
	d Matrix (S6)		Red Parent N	laterial (F2	(MLR/	A 127, 147) unie	ess disturbe	ed or problema	atic.
Type: nc	Layer (if observed): one									
Depth (in			_				Hydric Soil I	Present?	Yes	No 🖌
Remarks:							•			



Photo 1 Upland data point WBAA002_u facing southeast



Photo 2 Upland data point WBAA002_u facing southwest

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline		
	City/County:	Sampling Date: 4/27/2016
Applicant/Owner: Dominion		_ State: VA Sampling Point: wbaa001f_w
Investigator(s): GB, SH, SS	Section, Township, Range: No	PLSS in this area
Landform (hillslope, terrace, etc.): FLOODPLAIN		
Subregion (LRR or MLRA): <u>S</u> Lat: <u>3</u>	38.09223985 Long: -79.5	57047235 Datum: WGS 1984
Soil Map Unit Name:		NWI classification: None
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes <u>/</u> No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed? Are "Normal	Circumstances" present? Yes <u>V</u> No
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point location	ons, transects, important features, etc.
		·····; ·······························
Hydrophytic Vegetation Present? Yes _		
Hydric Soil Present? Yes _	No within a Wetland?	Yes 🥓 No
Wetland Hydrology Present? Yes 🖌	No	
Remarks:		
SATURATED TO TEMPORARILY FLOODED RIPARIAI		
BENCH BETWEEN LEVEES CREATED BY DIFFEREN	NT FLOOD STAGES; NC WAM = BOTTOML	AND HARDWOOD FOREST
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check a	all that apply)	Surface Soil Cracks (B6)
	rue Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	lydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) R	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
✓ Drift Deposits (B3) T	hin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) O	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 [
Water Table Present? Yes 🖌 No [Depth (inches):4	
Saturation Present? Yes <u>V</u> No [lydrology Present? Yes 🖌 No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous inspections), if ava	ilable:
Remarks:		

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

Sampling Point: wbaa001f_w

, , , , , , , , , , , , , , , , , , ,	Abaaluta	- Deminent I		Deminence Test worksheet
Tree Stratum (Plot size: 30)	Absolute	Dominant I Species?		Dominance Test worksheet:
	<u>30</u>	Yes	Status FACW	Number of Dominant Species
1. Platanus occidentalis				That Are OBL, FACW, or FAC:4 (A)
2. Salix nigra	3	No	OBL	
				Total Number of Dominant
3		·	<u> </u>	Species Across All Strata:5 (B)
4				
				Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 80 (A/B)
6				
7				Prevalence Index worksheet:
··	33			Total % Cover of: Multiply by:
		= Total Cove		44 44
50% of total cover: 16.5	20% of	total cover:	6.6	
Sapling/Shrub Stratum (Plot size: 15)				FACW species 35 x 2 = 70
1 Salix nigra	3	Yes	OBL	FAC species $10 x 3 = 30$
••				
_{2.} Rosa multiflora	3	Yes	FACU	FACU species X 4 =
				UPL species $0 x 5 = 0$
3				80 153
4				Column Totals: (A) (B)
5			·	Prevalence Index = B/A =1.71
6	-			Hydrophytic Vegetation Indicators:
7				
		·		1 - Rapid Test for Hydrophytic Vegetation
8	-			 2 - Dominance Test is >50%
9.				
··	6			\checkmark 3 - Prevalence Index is ≤3.0 ¹
		= Total Cove		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 3	20% of	total cover:	1.2	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
1. Carex scabrata	20	Vaa	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
	20	Yes	OBL	
2. Dichanthelium clandestinum	10	Yes	FAC	
3. Carex stricta	5	No	OBL	¹ Indicators of hydric soil and wetland hydrology must
		·		be present, unless disturbed or problematic.
4. Lycopus virginicus	5	No	OBL	Definitions of Four Vegetation Strata:
5. Packera aurea	5	No	FACW	Deminions of Four vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Symplocarpus foetidus	5	No	OBL	more in diameter at breast height (DBH), regardless of
7				height.
··		·		neight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10		·		
11				Herb – All herbaceous (non-woody) plants, regardless
	50	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25		total cover:		
	20% of	total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	•	= Total Cove		Present? Yes Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
	,			

Profile Desc	cription: (Describe to	the dep	oth needed to docun	nent the	indicator of	or confirm	the absence	e of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-6	10YR4/2	96	10YR4/6	4	C	PL/M	SL	
6-11	10YR4/1	95	10YR4/6	5	С	PL/M	SL	Rock at 11 inches
¹ Type: C=C	oncentration, D=Deple	tion RM	=Reduced Matrix MS	S=Masker	d Sand Gra	ains	² Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils ³ :
Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) Aucky Mineral (S1) (LF	. ,	 Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S Depleted Dar Redox Depre Iron-Mangane 	low Surfa rface (S9 ed Matrix (trix (F3) Surface (I k Surface essions (F) (MLRA 1 (F2) F6) € (F7) ⁽⁸⁾	47, 148)	148) (2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) /ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
MLR/ Sandy G Sandy F Stripped	A 147, 148) Gleyed Matrix (S4) Redox (S5) Matrix (S6)	,	MLRA 130 Umbric Surfa Piedmont Flo Red Parent M	6) ce (F13) odplain S	(MLRA 13 Soils (F19)	6, 122) (MLRA 14	• 8) we	dicators of hydrophytic vegetation and etland hydrology must be present, lless disturbed or problematic.
	Layer (if observed):							
Type: roo								
Depth (in	ches): <u>11</u>						Hydric Soi	l Present? Yes 🖌 No
Remarks:								



Photo 1 Wetland data point WBAA001f_w facing southwest



Photo 2 Wetland data point WBAA001f_w facing northeast

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Bath Cou	unty	Sampling Date: 4/27/2016	
Applicant/Owner: Dominion		State: VA	Sampling Point: wbaa001_u	
Investigator(s): GB, SH, SS	Section, Township, Ra	ange: No PLSS in this are	a	
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, cor		Slope (%): <u>4</u>	
Subregion (LRR or MLRA): S	38.09233276 Lo	ng:79.57061066	Datum: WGS 1984	
Soil Map Unit Name:		NWI classif	ication: None	
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes No _	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances"	present? Yes 🖌 No	
Are Vegetation, Soil, or Hydrology	naturally problematic? (If n	eeded, explain any answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point taken on floodplain	for a saturated to	o temporarily flooded	d PFO wetland.		

HYDROLOGY

Wetland Hydrology Indicato	rs:		Se	condary Indicators (minimum of two required)
Primary Indicators (minimum c	of one is required; chec	k all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres on Living	Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled So	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)		Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)		Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B9	9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes No 🔽	Depth (inches):		
Water Table Present?	Ves No 🗸	_ Depth (inches):		
Water Table Flesent?				
Saturation Present?		_ Depth (inches):	Wetland Hyd	rology Present? Yes No
Saturation Present? (includes capillary fringe)	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe)	Yes No _		-	••
Saturation Present? (includes capillary fringe)	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••
Saturation Present? (includes capillary fringe) Describe Recorded Data (streas Remarks:	Yes No _	_ Depth (inches):	-	••

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

Sampling Point: wbaa001_u

30	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)			Status	Number of Dominant Species
_{1.} Pinus strobus	20	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Acer saccharum	15	Yes	FACU	
3. Quercus alba	15	Yes	FACU	Total Number of Dominant
				Species Across All Strata: 9 (B)
_{4.} Carya glabra	10	No	FACU	
5. Carya ovata	10	No	FACU	Percent of Dominant Species That Are OBL_EACW_or_EAC: 33.33333333 (A/B)
6. Prunus serotina	5	No	FACU	That Are OBL, FACW, or FAC: <u>33.333333333</u> (A/B)
6. <u>Fruitus serouina</u>				Dravalance in day workshoet.
7.				Prevalence Index worksheet:
	75	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:37.5			15	OBL species 0 x 1 = 0
Solve of total cover:	20% 0	total cover:		3
Sapling/Shrub Stratum (Plot size: 15)				FAC W species $x 2 = $
_{1.} Carya ovata	5	Yes	FACU	FAC species 13 x 3 = 39
2. Rosa multiflora	2	Yes	FACU	FACU species $\frac{88}{2}$ x 4 = $\frac{352}{2}$
3. Cornus florida	2	Yes	FACU	UPL species x 5 =
4.				Column Totals: 104 (A) 397 (B)
5		·		Prevalence Index = $B/A = $ 3.81
6				
				Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	9	T () O		3 - Prevalence Index is ≤3.0 ¹
4.5		= Total Cover	1.8	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 4.5	20% of	total cover:	1.0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5)				
1. Erythronium umbilicatum	6	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Stellaria borealis	3	Yes	FACW	
_{3.} Carex blanda	2	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
A Podophyllum peltatum	2	No	FACU	be present, unless disturbed or problematic.
		INU	TACU	Definitions of Four Vegetation Strata:
5. Thalictrum thalictroides	2	No	FACU	
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		·		more in diameter at breast height (DBH), regardless of
7				height.
8.				
0				Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb All borbassius (non woody) plants, regardless
	15	Total Caura		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5		= Total Cover		
	20% of	total cover:	5	
				Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height
Woody Vine Stratum (Plot size: 30)	5	Yes	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
1. Toxicodendron radicans		Yes	FAC	
		Yes	FAC	
1. Toxicodendron radicans		Yes	FAC	
Toxicodendron radicans 2		Yes	FAC	
1. Toxicodendron radicans		Yes	FAC	
Toxicodendron radicans 2		Yes	FAC	height. Hydrophytic Vegetation
Toxicodendron radicans 2				height. Hydrophytic
Voody vine Stratum (File Stratum 1. Toxicodendron radicans 2.		= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td></td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of			height. Hydrophytic Vegetation
Voody vine Stratum (File Stratum 1. Toxicodendron radicans 2.	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation
<tbody (for="" 1<="" size)="" stratum="" td="" vine=""><td>5 20% of</td><td>= Total Cover</td><td></td><td>height. Hydrophytic Vegetation</td></tbody>	5 20% of	= Total Cover		height. Hydrophytic Vegetation

Profile Des	cription: (Describe	to the dept	h needed to docur	nent the indic	cator o	or confirm	the absence	of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u> Ty	ype ¹	Loc ²	Texture		Remarks	
0-3	10YR 4/4	100		<u> </u>			SL			
3-12	10YR 5/6	100					SL	rock at 12		
· · · · · · · · · · · · · · · · · · ·										
				<u> </u>						
				<u> </u>						
·						·				
				<u> </u>						
¹ Type: C=C	oncentration, D=Dep	etion. RM=	Reduced Matrix, MS	S=Masked Sar	nd Gra	ins.	² Location: P	L=Pore Lini	ng, M=Matrix.	
Hydric Soil		,	· · · · · · · · · · · · · · · · · · ·						oblematic Hy	dric Soils ³ :
Histoso	l (A1)		Dark Surface	e (S7)			2	cm Muck (A	A10) (MLRA 1	47)
Histic E	pipedon (A2)		Polyvalue Be	low Surface (S8) (M	LRA 147,			Redox (A16)	
Black H	istic (A3)		Thin Dark Su	urface (S9) (MI	LRA 14	47, 148)		(MLRA 14	7, 148)	
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			P	iedmont Flo	odplain Soils	(F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
	uck (A10) (LRR N)		Redox Dark	()				•	Dark Surface	. ,
·	d Below Dark Surface	e (A11)	Depleted Dar		C	ther (Explain	n in Remarks)	1		
	ark Surface (A12)		Redox Depre	· · ·						
	Mucky Mineral (S1) (L	.RR N,		ese Masses (F	F12) (L	.RR N,				
	A 147, 148) Gleyed Matrix (S4)		MLRA 13	o) Ice (F13) (MLF	DA 126	\$ 122)	³ Ind	icators of h	/drophytic veg	otation and
	Redox (S5)			odplain Soils					logy must be p	
	d Matrix (S6)			Aterial (F21)		•			ed or problem	
	Layer (if observed):				(,	/			
Type: ro										
	iches): <u>12</u>						Hydric Soil	Present?	Yes	No 🖌
Remarks:										
Komanto.										
1										



Photo 1 Upland data point WBAA001_u facing southwest



Photo 2 Upland data point WBAA001_u facing northwest

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site:ACP	City/County: Bath Sampling Date: 3-30-16
Applicant/Owner: Dominion	State: VA Sampling Point: Whar 008 f-v
Investigator(s): ESI (K. Markhan / W. Vaughan)	Section Township Range: NOOC
Landform (hillslope, terrace, etc.): <u>Dra: nage</u> L Subregion (LRR or MLRA): <u>LRRS</u> Lat: <u>38.095</u> L Soil Map Unit Name: <u>Cotton bend Sill</u> <u>am</u> Are climatic / hydrologic conditions on the site typical for this time of y	ocal relief (concave, convex, none): Concave Slope (%): 4-10 17 989 Long: -79. 56.460662 Datum: WGS84 3-8 % slopes NWI classification: PF0 year? Yes No (If no, explain in Remarks.)
	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes V No Wetland Hydrology Present? Yes V No	- Is the Sampled Area - within a Wetland? Yes <u>V</u> No
Remarks: NCWAM: Headwater Forcet HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
High Water Table (A2)	
	zospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2)
	Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Su	
Algal Mat or Crust (B4) Other (Explain	가슴이다. 이렇게 잘 많이 안 한 것 같이 봐. 한 것은 것 같은
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
V Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	s): <u>4 inches</u>
Water Table Present? Yes No Depth (inche	s): Surface
Saturation Present? Yes No Depth (inche	es): Surface Wetland Hydrology Present? Yes V No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	itos, previous inspections), if available.
Remarks:	

Sampling Point: Whar OD&f.W

0

(

Tree Stratum (Piot size: 20+1: x 30+1:) S. Cours: Sectors? Text Number of Dominant Species 3 (h) 2 Course in the course of the c		Absolute	Dominant	Indicator	Dominance Test worksheet:
2 Corpletes Corpletes <t< td=""><td>Tree Stratum (Plot size: 20PL x 30ff) 1. Accor rubrun</td><td></td><td></td><td>and the second s</td><td></td></t<>	Tree Stratum (Plot size: 20PL x 30ff) 1. Accor rubrun			and the second s	
4	2. Carpinus Caroliniana	15	yes	FAC	
5		Second debuged	STANDARD SATES		Remont of Deminant Species
7	5				
20 = Total Cover Multiply by: Sapina(Shub Stratum [Plot size_20f1_304] [Plot size_20f1_304] [Plot size_20f1_304] 1					Prevalence Index worksheet:
50% of total cover. \bigcirc	7	20			Total % Cover of: Multiply by:
Sacting/Shub Stratum (Plot size: 20f1 - 30f1) FACU species x 2 = 1 Colum FACU species x 3 = 2	50% of total cover: /O				OBL species x 1 =
1 Conce FAC species x 3 = 2	이 사실에 가장 것 같은 것 같		total cover.		FACW species x 2 =
2	and the second se				FAC species x 3 =
3. UPL specks x 5 =					FACU species x 4 =
4		NAMES STREET			UPL species x 5 =
5					Column Totals: (A) (B)
6.					Prevalence Index = B/A =
7.	6				A NUMBER OF A DESCRIPTION OF A DESCRIPTI
8	7				1. 《中华》,1994年7月4月,武林大学的新闻,北京建筑的新闻的新闻的新闻的新闻的新闻,但1995年7月,1995年7月,1995年7月,1995年7月,1995年7月,1995年7月,1995年7月,1995年7月,
9	8	in second and and			
	9		which makes		Comments in a standard standard black and b
50% of total cover. 20% of total cover. Herb Stratum (Plot size: 20ft _ 30ft) 1. 1. Symplocarpus foetides 2.					
Herb Stratum (Plot size:		20% of	total cover:_		
1. Dymplocarples toetidus 3		-			
3			지원 전에 전 지원에 관련하는 것은 것이다.		
3	2		and a state of the		¹ Indicators of hydric soil and wetland hydrology must
5	3	-			be present, unless disturbed or problematic.
6					Definitions of Four Vegetation Strata:
B	5				Tree Woody plants excluding vines 3 in (7.6 cm) or
7	6				more in diameter at breast height (DBH), regardless of
9	7				height.
9					Sapling/Shrub - Woody plants, excluding vines, less
11	9				than 3 in. DBH and greater than or equal to 3.28 ft (1
	10				m) tall.
50% of total cover: 20% of total cover. Woody vine – All woody vines greater than 3.28 ft in height. 1	11	Material Card	-		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 1 of L = 3 of L) Woody Vine Stratum (Plot size: 1 of L = 3 of L) 1		A REAL PROPERTY OF THE REAL PR			of size, and woody plants less than 3.28 ft tall.
1		20% of	total cover:_		Woody vine - All woody vines greater than 3.28 ft in
2	And the set of the set				height.
3	(2) And a state of the second s second second se			10000	
4				The second secon	
5. C Vegetation = Total Cover Present? Yes No 50% of total cover: 20% of total cover: Yes No	a	Connection of the second			
= Total Cover Present? Yes No	4	0			
50% of total cover: 20% of total cover:	5	Concentration of the			
	50% of total cover				
Remarks: (include photo numbers nere or on a separate sneet.)			total cover		
	Remarks: (include photo numbers here or on a separate sr	ieet.)			
				William Ra	

SOIL

Sampling Point: Whar UD8f-W

JOIL								- of indicators)
	cription: (Describe	to the dept				or contirm	n the absenc	e of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Features %	Type'	Loc ²	Texture	Remarks
0-8	10yr 3/2	90	10 yr 3/6	10	C	M	SILL	
8-15	2.5, 4/2	80	10 yr 3/6	20	C	M	SCL	
0.0	2.39 112		10 yr 9/6			-		
	And All and the Arts							-
	a and a second	and and a second		<u></u>	<u>in and a</u>	Section of the		
				-		The second second second		
				-			-	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	lins.	² Location: F	PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
Hydric Soil								
Histosol			Dark Surface Polyvalue Be		00 (SB) (M	DA 147		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	pipedon (A2) istic (A3)		Thin Dark Su				(140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	and the second sec	A CONTRACTOR OF A CONTRACTOR	,,	and the same	Piedmont Floodplain Soils (F19)
and the second se	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	Jck (A10) (LRR N)		Redox Dark					Red Parent Material (TF2)
the state of the s	d Below Dark Surfac	e (A11)	Depleted Da					Very Shallow Dark Surface (TF12)
	ark Surface (A12)		Redox Depre					Other (Explain in Remarks)
Company of the second second second second	lucky Mineral (S1) (I A 147, 148)	LRR N,	Inon-Mangan MLRA 13		es (F12) (L	-RR N,		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				48)	wetland hydrology must be present,
Stripped	Matrix (S6)							unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:			<u></u>					
Depth (in	ches):		<u></u>			de la la la	Hydric So	il Present? Yes <u>V</u> No
Remarks:								
C	NR past 15	High W	Г					
1								

Environmental Field Surveys Wetland Photo Page



Wetland data point wbar008f_w facing west.



Wetland data point wbar008f_w facing northeast.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: ACP					
Applicant/Owner: Daminion			_ Sampling Point: Wbar008 - 4		
Investigator(s): K. Markham, W. Vaughan	Section, Township, Range	none			
Landform (hillslope, terrace, etc.): <u>Valley</u> Subregion (LRR or MLRA): <u>LRS</u> Lat: <u>38.0</u>	Local relief (concave, convex	, none): Concau	Slope (%): 4-10		
Subregion (I BR or MI BA): LRRS Lat: 38.0	9509791 Long:	79.5645693	Datum: WGS84		
Soil Map Unit Name: Cotton bend Silt losm	3-8% slopes	NIM classific	ation: NA		
NAMES AND A DESCRIPTION OF A	ALCOLAR CONTRACTOR AND VARIANTS AND A CONTRACTOR AND A CONT				
Are climatic / hydrologic conditions on the site typical for this tin					
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed? Are "No	rmal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology natu	rally problematic? (If need	ed, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point loc	ations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes X No _ Hydric Soil Present? Yes No _ Wetland Hydrology Present? Yes No _ Remarks: Octoor	X within a Wetland?		No		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soil			
	uatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)		
	en Sulfide Odor (C1)				
	d Rhizospheres on Living Roots (0		nes (B16)		
Water Marks (B1) Presend	ce of Reduced Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2) Recent	Iron Reduction in Tilled Soils (C6)				
	ick Surface (C7)	CARL STREAM AND AND AN ADDREAM AND	sible on Aerial Imagery (C9)		
	Explain in Remarks)		ressed Plants (D1)		
Iron Deposits (B5)		Geomorphic	방송(영상·영상)(영상·영상·영상·영상·영상·영상·영상·영상·영상·영상·영상·영상·영상·영		
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): NA				
Water Table Present? Yes No X Depth					
Saturation Present? Yes No 🔀 Depth	and the second	nd Hydrology Presen	t? Yes No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aeri	al photos, previous inspections), i	r available:			
Remarks:					

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

Sampling Point: What MB_ u

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30f+ x 30f+)		Species?	Status	Number of Dominant Species
1. Quercus alba	/5	yes	Face	That Are OBL, FACW, or FAC: 1/2 (A)
2. Carpinus Caroliniana	25	yes	Fac	Thill the formation F
3. Quercus rubra	15	ves	-	Total Number of Dominant Species Across All Strata: 5 (B)
4. Prunus Scrotina	15	ves	Facu	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 20/40 (A/B)
6			-	Prevalence Index worksheet:
7			A state of the second	Total % Cover of: Multiply by:
50% of total cover: 35	- 10	= Total Cov	/4	OBL species $\frac{46}{0}$ x 1 = $\frac{46}{0}$
	20% of	total cover		FACW species O $x 2 = O$
Sapling/Shrub Stratum (Plot size: 30F4 30F4)				FAC species 25 65 x3 = 75
1. none	A SHAREN MALE IN STREET	1973 - 1973 - 1973 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 -		FACU species $\frac{45/85}{45/85} \times 4 = \frac{180/340}{180/340}$
2				UPL species O $x5 = O$
3		-		Control Control and State And Control and Annual Annua
4				Column Totals: $10/10$ (A) $295/415$ (B)
5				Prevalence Index = $B/A = \frac{2.68/3.77}{2.68/3.77}$
6				Hydrophytic Vegetation Indicators:
7	ADDRESS AND ADDRESS AD		(1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
50% of total cover:	-0=			4 - Morphological Adaptations ¹ (Provide supporting
	20% 01	total cover.		data in Remarks or on a separate sheet)
<u>Herb Stratum</u> (Plot size: $30f + \times 34f +$)	5		1.01	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Erythronium americanum		no	LAPL	
2. Carex Sp.		yes	FACU/OBL	¹ Indicators of hydric soil and wetland hydrology must
3			-	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8		<u></u>		Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22 - 5	_ 20% of	total cover:	9	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30F4 x 30F4)				height.
1. None		Summer Ball	1.000 (Contraction)	
2	10			
3				
4				Hydrophytic
5				Vegetation
	0 =	Total Cove	er	Present? Yes <u>No</u>
50% of total cover:	_ 20% of t	otal cover:	and the second	
Remarks: (Include photo numbers here or on a separate sh	leet.)		Contraction of the	
If carex sp. is facu then pre index is < 3.0.; assume hydropi	we leave	inder 3	30.0	f carex sp. is old then prevelence
i i i i i i i i i i i i i i i i i i i	whice N.	e o o to de	mare	velonce index is met.
inder is es.o.; assume myaropr	. The A	Zerren	P	
			Alerian	

SOIL

Sampling Point: War 008_4

SUL					10	6.6.228.45			
Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the l	ndicator	or confirm	n the absence o	f indicators.)	
Depth	Matrix			x Feature	s				
(inches)	Color (moist)	%	Color (moist)	_%	_Type'	_Loc ²		Remai	rks
0-6	10vr 3/3	100					_L		
6-17	10 yr 4/4	100					CL		
<u> </u>			Provinsi Sanaka Ka	a constructor		10.000			
		•		-			-		THAT THE REAL PROPERTY OF
						1000			
Salar Second		The second		1		STATES .			
	The second second second second	•					Calendary and the	Anterior and a strategy of the	
		<u></u>					-		
							A CALLER AND A		
A CONTRACTOR		-		Area and		THE REAL PROPERTY.			State of the second
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		Pore Lining, M=Mat	
Hydric Soil	Indicators:							ors for Problemation	: 이 아파
Histosol	(A1)		Dark Surface				the state of the second s	m Muck (A10) (MLF	
Histic Ep	pipedon (A2)		Polyvalue Be				and the second sec	ast Prairie Redox (A	(16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)	
the second s	en Sulfide (A4)		Loamy Gleye		F2)			dmont Floodplain S	oils (F19)
 Annual State of the state of th	d Layers (A5)		Depleted Ma					(MLRA 136, 147)	
	JCk (A10) (LRR N)		Redox Dark					d Parent Material (T	
 A state of the sta	d Below Dark Surfac	e (A11)	Depleted Da					ry Shallow Dark Sur	
	ark Surface (A12)		Redox Depre				Otr	ner (Explain in Rema	arks)
the second se	lucky Mineral (S1) (I	LRR N,	Iron-Mangan		es (F12) (LRR N,			
	A 147, 148)		MLRA 13			6 4221	³ Indic	ators of hydrophytic	vegetation and
	Gleyed Matrix (S4)		Umbric Surfa					tland hydrology mus	
	Redox (S5) I Matrix (S6)		Pleamont Fit	ouplain S	015 (F19)	(MERA I		ess disturbed or pro	
	Layer (if observed):	• • • • • • • • • • • • • • • • • • •						cos distarbed of pre	
Туре:							Undele Cell C		No_X
	ches):			della Cohenelle		S. 24.	Hydric Soli P	Present? Yes	NO
Remarks:									
CUD	e past h	he	rock						
CNIC	- paur 10	1 00							
States and									
1.1.1									

Environmental Field Surveys Wetland Photo Page



Upland data point wbar008_u facing west.



Upland data point wbar008_u facing east.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: ACP	City/County	Bath		Sampling Date: 3-31-16	
Applicant/Ourger Donaiai ao			State: VA	Sampling Point Wbar009f-w	
Investigator(s): ESI (K Markham / W. Vau	section, To	wnship, Range: N	one		
Landform (hillslope, terrace, etc.):	Local relief (cc	ncave, convex, nor	e): Concave	Slope (%): 4-10	
Subregion (LRR or MLRA): LRPS Lat:	38 09566850	Long - 79	. 56355785	5 Datum WG594	
Soil Map Unit Name: Cotton bend silt loam	3-8% slages	Eorig	NWI classifica	ation: PFD	
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					
			explain any answer		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach site ma	p snowing samplin	g point locatio	ns, transects,	important leatures, etc.	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	A1_	e Sampled Area in a Wetland?	Yes	No	
Remarks: NCWAM: Headwater 7	140				
HYDROLOGY			2		
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is required; check a	Standa the structure of the last of the state of a state of a state of the state of the state	the second state of the second state of the second state	Surface Soil Cracks (B6)		
	rue Aquatic Plants (B14)		Sparsely Vegetated Concave Surface (B8)		
	lydrogen Sulfide Odor (C1		Drainage Patterns (B10)		
The sector of th	resence of Reduced Iron) Moss Trim Lines (B16) Dry-Season Water Table (C2)		
	Recent Iron Reduction in T		Crayfish Burn		
The second se	hin Muck Surface (C7)			sible on Aerial Imagery (C9)	
Second State Office region and the Manufactures August 2010 and 2010	ther (Explain in Remarks)	1		ressed Plants (D1)	
Iron Deposits (B5)			Geomorphic I	Position (D2)	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	2012년 1월22년 1월21년 1월 2012년 1월 2012년 2월 2012년 1월	
Water-Stained Leaves (B9)			Microtopogra		
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)	
Field Observations:					
	Depth (inches): <u>I inch</u>				
	Depth (inches): <u>Surface</u> Depth (inches): <u>Sur Fa</u>		lydrology Presen	t? Yes V No	
Saturation Present? Yes V No I	Jeptn (incres): <u>Societa</u>	vvetiand P	iyarology Presen		
Describe Recorded Data (stream gauge, monitoring we	II, aerial photos, previous	inspections), if ava	ilable:		
Damaska		Sector and the sector of the			
Remarks:					

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

Sampling Point: Whar 0094-w

G

C

	Absolute	Dominant I	ndicator	Dominance Test worksheet:		37.8
Tree Stratum (Plot size: 10 ft x 20ft) 1. Nonc	COLUMN TRANSPORT	Species?	when you have been and the	Number of Dominant Species That Are OBL, FACW, or FAC:	≥>3 (A)	
2 3		728-1945- 		Total Number of Dominant Species Across All Strata:	(в)	1
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:	≥75 (AVE	B)
6		193198.000	The second second	Prevalence Index worksheet:		1726
7	~			Total % Cover of:	Multiply by:	
	Contraction of the local division of the local division of the	= Total Cove		OBL species x 1		
50% of total cover:	20% of	total cover:	1.00 (FACW species x 2		
Sapling/Shrub Stratum (Plot size: /0ft x 20ft)	_			FAC species x 3		
1. Acer rubrum				X Set Set State and Set		
2. Carpinus "ceroliniana		yes	FAC	FACU species x 4		
3	- Astronomica	ALSA S	John Street	UPL species x 5		
4		Jacobine H	Cale and	Column Totals: (A)	(B	5)
5		Second Second		Prevalence Index = B/A =		
6			Con Surge	Hydrophytic Vegetation Indicat		199
7.			<u></u>	1 - Rapid Test for Hydrophyti		
8				2 - Dominance Test is >50%	e regelation	
9	11.357			3 - Prevalence Index is ≤3.0 ¹		
		Total Cover		4 - Morphological Adaptation:		
50% of total cover: 7.5	20% of	total cover:	3	data in Remarks or on a s		ny
Herb Stratum (Plot size: 10ft x 20ft)						
1. Viola sp.	5	Ves	LINK	Problematic Hydrophytic Veg	etation (Explain)	
2. Carex sp.	1	no	UNK			
3. Juncus effusus	1.1	no	FACW	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	and hydrology must	
4		L. Marshan	1553355	Definitions of Four Vegetation S	Contractive Contractive of the Second Second Second	
5			CONSTRUCTION OF			
6			ED THE TH	Tree - Woody plants, excluding v	ines, 3 in. (7.6 cm) c	or
7				more in diameter at breast height height.	(DBH), regardless o	10
8				A State of the second sec		
9			and the second	Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than c	excluding vines, less	5
10		THE REPORT OF		m) tall.	i equal to 3.20 it (1	
		Tarran and the	alar ya			
11	7 :	Total Cover		Herb – All herbaceous (non-wood of size, and woody plants less that	ly) plants, regardless in 3 28 ft tall.	s
50% of total cover: 3.5		total cover:		and the second second second second second second second		
Woody Vine Stratum (Plot size: <u>bft x 20ft</u>)				Woody vine - All woody vines gr	eater than 3.28 ft in	
1. Smilar roturolifolia	5	VES	FAC	height.		
	TRANSIE STOR	<u></u>				
2						
3		Contraction of the second				
4				Hydrophytic		
5	5			Vegetation Present? Yes	No	
FOR offetel environ 7 S	Character Statements		1			
		total cover:			Anna an the Section of the Section o	1000
50% of total cover: <u>2.5</u> Remarks: (Include photo numbers here or on a separate sh	20% of t	Total Cover	1	Present? Yes	No	
						1012

wbar009f_w

Environmental Field Surveys Wetland Photo Page



Wetland data point wbar009f_w facing north.



Wetland data point wbar009f_w facing northeast.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: ACP	_ City/County:B	ath	Sampli	ng Date: 3-31-16
Applicant/Owner: Dominion		State:	VA Sam	pling Point: Wbar 009-4
Investigator(s): ESI (K. Markhan / W. Uaughan				
Landform (hillslope, terrace, etc.): h. 11slope L				Slope (%): 20
Subregion (LRR or MLRA): LRLS Lat: 38.095				
Soil Map Unit Name: Cottonbend Silfloon 3-8%				
Are climatic / hydrologic conditions on the site typical for this time of		lo (If no, ex		
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation, Soil, or Hydrology significant	C. C. C. L. S. C. State and S.	The first store mathematical in the Store States		Yes No
Are Vegetation, Soil, or Hydrology naturally p		If needed, explain a		
SUMMARY OF FINDINGS – Attach site map showir				
		Louis contribution of the new yorks		
Hydrophytic Vegetation Present? Yes <u>No X</u>	- is the sam			1
Hydric Soil Present? Yes No _X Wetland Hydrology Present? Yes No _X		etland? Y	es No	
Remarks:	-			
HYDROLOGY			ale the second	
Wetland Hydrology Indicators:		A CONTRACTOR OF A CONTRACTOR O	to provide the element of an and which a provident of	nimum of two required)
Primary Indicators (minimum of one is required; check all that apply	「細ない時代」というないのないないということであることが、	A SAME AND A REPORT OF A DESCRIPTION OF	rface Soil Cracks	
Surface Water (A1) True Aquatic			arsely vegetated ainage Patterns (E	Concave Surface (B8)
High Water Table (A2) Hydrogen Su Saturation (A3) Oxidized Rhiz	zospheres on Living F		ss Trim Lines (B1	
	Reduced Iron (C4)		-Season Water T	
	Reduction in Tilled So	and the second	ayfish Burrows (C	
Drift Deposits (B3) Thin Muck St	urface (C7)	States of the second seco		Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain	in in Remarks)	The second	inted or Stressed	
Iron Deposits (B5)		and the second se	omorphic Position	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		and the second	allow Aquitard (D3 protopographic Re	
Aquatic Fauna (B13)		A PARTY AND A PARTY OF	C-Neutral Test (D	
Field Observations:				
Surface Water Present? Yes No Depth (inche	es): NA			
Water Table Present? Yes No Depth (inche	es): >16			
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es): <u>>16</u>	Wetland Hydrolog	gy Present? Ye	s No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspect	ions), if available:		
Remarks:				
Remarks: auger refusal at 16 inches.				
5				

VEGETATION (Four Strata) – Use scier	tific names of plants.
--------------------------------------	------------------------

Sampling Point: Whar 009_ u

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20.20	Absolute	Dominant		Dominance Test worksheet:	1
Tree Stratum (Plot size: 30F+ x 30F+)	Contraction of the second second second	Species?	Status	Number of Dominant Species	
1. Pinus Virginiana	15	yes	UPL	That Are OBL, FACW, or FAC:	(A)
2. Acer rubrum	15	yes	FAC	Total Number of Dominant	
3. Quereus alba	_15_	yes	FACU		(B)
4. Carya Ovata	5	no	FACU	Percent of Dominant Species	
5			S. 199		(A/B)
6.					
7		STATISTICS.	ALC: NOT	Prevalence Index worksheet:	
The second s	50	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover: 25				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FACW species x 2 =	
	-14. A.S.			FAC species x 3 = 45	
	and the subscription of the			FACU species 20 x4= 80	
THE THE READ AT A DESCRIPTION OF A DESCR	algoversta as nonializzari			UPL species 20 x 5 = 100	
3					(B)
4					
5				Prevalence Index = $B/A = 4.09$	
6		The second secon	1. 188 - 196	Hydrophytic Vegetation Indicators:	P) 544 100
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
	the second se	- Total Cove		4 - Morphological Adaptations ¹ (Provide suppo	ortina
50% of total cover:	20% of	total cover:		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 30F4 × 30F4)				Problematic Hydrophytic Vegetation ¹ (Explain)	
1. Erythronium americanum		Ves	UPL	Problematic Hydrophytic Vegetation (Explain)	' I
2.		1		to a second and the defension	
3				¹ Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	ISI
4				Definitions of Four Vegetation Strata:	
5			Contraction of the Party of the	Definitions of Four Vegetation Strata.	
6			ANT STATES	Tree - Woody plants, excluding vines, 3 in. (7.6 cr	n) or
			THE REAL PROPERTY.	more in diameter at breast height (DBH), regardles	ss of
7				height.	
8		Transfer the Man		Sapling/Shrub - Woody plants, excluding vines, I	ess
9	Hand and the			than 3 in. DBH and greater than or equal to 3.28 ft	1(1
10	COLUMN DOCT	Contraction (Contraction)	And the second second	m) tall.	
11				Herb - All herbaceous (non-woody) plants, regard	less
15	distant and an other statements of the statement	Total Cove		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: _ んう	20% of	total cover:_		Woody vine - All woody vines greater than 3.28 ft	tin
Woody Vine Stratum (Plot size: 30ft + 30ft)				height.	12.0.213
1. DONE					
2					
3					
4.				the description	
5.				Hydrophytic Vegetation	
	0 -	Total Cove		Present? Yes No	
50% of total cover:	the state of the second st				
	in the second second second	otar cover			
Remarks: (Include photo numbers here or on a separate si	leet.)				
				•	

SOIL

JOIL								Sannpining i si	
Profile Desc	ription: (Describe	e to the dep	pth needed to docu	ment the i	ndicator	or confirm	the absence of i	indicators.)	
Depth	Matrix			x Features	s				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remark	5
0-2	10yr 2/2	100					L	and the second second	
2-16	2.5, 5/4	80	10yr 5/6	20	C	M	CL		
2-16	2.54 011	_ 00	TOYF STG						
	a week allowed					1.			Contraction of the second
	THE OWNER WATER OF	The second second			a street and	A MARINE MAN			and the state
				-					
Call States				de condition	A CONTRACT	<u></u>	and the second second	der Stelen okals	
		TO TRUE TO	A CARL TO BE STOLEN		TAN DAVID	ATT NO.	TRACTION OF COMPANY		
weiter all the									and a second second second
							A Contractor and Party		
A CONTRACTOR OF STATE									
								and Lining Maldate	
		pletion, RM	I=Reduced Matrix, M	S=Masked	Sand Gra	ains.		ore Lining, M=Matrix s for Problematic	
Hydric Soil									
Histosol			Dark Surface					Muck (A10) (MLRA	
	pipedon (A2)		Polyvalue Be				And the second of the second sec	t Prairie Redox (A1	6)
	stic (A3)		Thin Dark St			47, 148)		LRA 147, 148)	
the second s	n Sulfide (A4)		Loamy Gleye		F2)			mont Floodplain Soi	ls (F19)
	Layers (A5)		Depleted Ma					LRA 136, 147)	
	ick (A10) (LRR N)		Redox Dark					Parent Material (TF	
	d Below Dark Surface	ce (A11)	Depleted Da					Shallow Dark Surfa	
	ark Surface (A12)		Redox Depre				Othe	r (Explain in Remar	ks)
the second se	lucky Mineral (S1)	(LRR N,	Iron-Mangar		es (F12) (LRR N,			
	A 147, 148)		MLRA 13				1		
	Gleyed Matrix (S4)		Umbric Surfa					ors of hydrophytic v	
	ledox (S5)		Piedmont Florence	oodplain S	oils (F19)	(MLRA 14	and the second	and hydrology must	
	Matrix (S6)						unles	ss disturbed or prob	lematic.
Restrictive I	Layer (if observed)):							
Type:			<u></u>						
Depth (in	ches):						Hydric Soil Pre	esent? Yes	No_X
Remarks:			a shere the second second						
	past	16 1	nches						
CNR	PAUT	10.							
4									
1000									
WHAT THE WALLS OF SALES									
The Bas Revision									

Environmental Field Surveys Wetland Photo Page



Upland data point wbar009_u facing southwest.



Upland data point wbar009_u facing northeast.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: ACP	City/County:	th	Sa	
Applicant/Owner: Deminion		State	VA	Sampling Point: Wbur O Ube_w
Investigator(s) JBenton	Section, Township	, Range: <u>N/A</u>		
Landform (hillslope, terrace, etc.): <u>floodplain</u> Subregion (LRR or MLRA): LRR N Lat:	Local relief (concave, 38,09513	convex, none): <u>C</u> Long: <u>-79,5</u>	oncave 56242	Datum: WG5-84
Soil Map Unit Name: Escatawba silt loam				
Are climatic / hydrologic conditions on the site typical for th	is time of year? Yes <u>X</u> I	Na (If na, e:	xplain in Rema	arks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circum	stances* pres	ent? Yes <u> </u>
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain a	iny answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling pol	nt locations, tr	ansects, in	nportant features, etc.
Hydric Soil Present? Yes /	No Is the Sam No within a W	A DE COMPENSION DE COMPENSION DE LA COMPENSIÓN DE LA COMPE	/es_X	No
Non-tidal Freshwater N HYDROLOGY	harsh, Adjacen	t to Sbar	-014 w	l'in powerline,
Wetland Hydrology Indicators:		Secon	dary Indicator	(minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)		rface Soil Cra	
Surface Water (A1) Tru High Water Table (A2) Hyr Saturation (A3) Oxi Water Marks (B1) Pre Sediment Deposits (B2) Re Drift Deposits (B3) Thi Algal Mat or Crust (B4) Ott Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)	— Sp — Dr Roots (C3) — Ma Dr Dils (C6) — Cr — Sa — St — St — St — St — Mi	barsely Vegeta ainage Patteri oss Trim Lines y-Season Wa y-Season Wa yayfish Burrow aturation Visibl	ted Concave Surface (B8) (B10) (B16) ter Table (C2) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	
Value No Description Surface Water Present? Yes No Description Water Table Present? Yes No Description Saturation Present? Yes No Description	and a second state from the second state of th	Wetland Hydrolo	gy Present?	Yes_X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well,		2 The second		
				a second and the second se
Remarks:				

L

	plants.		The standard stands
% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species 3 (A)
			Total Number of Dominant 5 (B)
			Percent of Dominant Species 60 (A/B)
	den den en		Prevalence Index worksheet: Total % Cover of: Multiply by:
0 ;	= Total Cov	er	OBL species
_ 20% of	total cover:	<u> </u>	FACW species x 2 =
-	~	FACIL	FAC species x 3 =
	A REAL PROPERTY AND A REAL PROPERTY.		FACU species x 4 =
			UPL species x 5 = (B)
			Column Totals: (A) (B) Prevalence Index = B/A =
			 A set of a set of the set of th
			Hydrophytic Vegetation Indicators:
		ATT DESCRIPTION	- 1 - Rapid Test for Hydrophytic Vegetation
	-		X 2 - Dominance Test is >50%
5 .	Total Cov		3 - Prevalence Index is ≤3.01
20% of	total cover	1	- 4 - Morphological Adaptations' (Provide supporting
-		NEW YORK	data in Remarks or on a separate sheet)
15	V	FACY	Problematic Hydrophytic Vegetation ¹ (Explain)
	Y	the second se	
		And the second s	Indicators of hydric soil and wetland hydrology must
5	December (1993) Arth		be present, unless disturbed or problematic.
5			Definitions of Four Vegetation Strata:
CONTRACTOR APPROA	An on Participants and the service	State State and Street St.	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub - Woody plants, excluding vines, less
			than 3 in. DBH and greater than or equal to 3.28 ft (1
			m) tall.
<u>O.M. Market</u>			Herb - All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
_ 20% of t	iotal cover:	10	Woody vine - All woody vines greater than 3.28 ft in
-		TAC	height.
		PAC	
A Louis and			
			Hydrophytic
aland Collinson			Vegetation Present? Yes X No
5 =	Total Cove		Present? Yes <u>No</u>
20% of t			
	0 20% of 5 20% of 15 15 15 15 5 5 5	0 = Total Cov 20% of total cover; 5 4 5 4 20% of total cover; 5 4 15 4 15 4 15 4 5 N 5 N 5 N 5 N 50 = Total Cover;	0 = Total Cover 20% of total cover; 0 5 Y FACV 5 Y FACV 5 = Total Cover

VEGETATION (Four Strata) - Use scientific names of plants

C

ning Point: Wbaroobe-w

OIL		South the second	Same and the second		(Silond)			Sampling Point: Wowl 0000
Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment the l	ndicator	or confin	m the absen	nce of Indicators.)
Depth	Matrix			x Features		1.1		Domester
(inches) 0-6	Color (moist) 2.544/2	85	Color (moist) 7.57R 5/8	15	Type	Loc ²	<u> </u>	Remarks
6-20		-	104R 4/6		<u></u>	M	SIL	
6-20	Gley 15/104	80	and a second s	10	C	and the second s	JIL	avilia chia colores
			104R 476	10	<u>_c</u>	PL	•	oxidized rhizospheres
							ni <u>ili, nina</u>	
	oncentration, D=Depl		=Reduced Matrix M	S=Masked	Sand G	ains	² Location:	PL=Pore Lining, M=Matrix.
	Indicators:	cuon, run	-neuticea maina, m	0-mashed	i Gana G	un 10.	Inc	dicators for Problematic Hydric Solis ¹ :
Black Hi Hydroge Stratified Depleted Thick Di Sandy M MLR/ Sandy G Sandy F	bipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) fucky Mineral (S1) (L A 147, 148) Sleyed Matrix (S4) Redox (S5)		Polyvalue Bo Thin Dark So Loarny Gley Depleted Ma Redox Dark Depleted Da Redox Depr Iron-Mangar MLRA 13 Umbric Surfi Piedmont Fi	urface (S9) ed Matrix (atrix (F3) Surface (F ark Surface essions (F nese Mass (S6) ace (F13) () (MLRA F2) (F7) 8) es (F7) 8) (MLRA 1	147, 148) (LRR N, 16, 122)		Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:			<u></u>					
Depth (in	ches):	SALPSIALLS				12312.6	Hydric S	Soll Present? Yes X No

Environmental Field Surveys Wetland Photo Page



Wetland data point wbar006e_w facing northwest.



Wetland data point wbar006e_w facing southeast.

Photo Sheet 1 of 2

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: ACP		_ City/County: Bath		Sampling Date: 3/22/16
Applicant/Owner: Deminion			State: VA	_ Sampling Point: Wbw 006_w
		Section, Township, Range:		
Landform (hillslope, terrace, etc.): _ Subregion (LRR or MLRA): Soil Map Unit Name: Are climatic / hydrologic conditions of Are Vegetation, Soil Are Vegetation, Soil SUMMARY OF FINDINGS -	hillslope N Lat: 38,095 Dan Silt loam, 3- on the site typical for this time of , or Hydrology significan , or Hydrology naturally	Local relief (concave, convex, n 507 Long: 8 % Slope5 f year? Yes No htty disturbed? Are "Norm problematic? (If needed	one): <u>Conceve</u> - <u>79,56242</u> NWI classific (If no, explain in Re al Circumstances [®] p , explain any answe	Datum: <u>W (55 - 84</u> ation: <u>/A</u> emarks.) resent? Yes <u></u> No rs in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes No _X Yes No _X Yes No _X	 Is the Sampled Area within a Wetland? 	Yes	No_X
HYDROLOGY				
Wetland Hydrology Indicators:			A state of the second stat	tors (minimum of two required)
Primary Indicators (minimum of on	True Aquation Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	c Plants (B14) ulfide Odor (C1) ilzospheres on Living Roots (C3 Reduced Iron (C4) Reduction in Tilled Soils (C6)	Drainage Pai Moss Trim Li Dry-Season V Crayfish Burn Saturation Vi Stunted or S Geomorphic Shallow Aqui	retated Concave Surface (B8) Items (B10) mes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) uphic Relief (D4)
Water Table Present? Ye	s No Depth (inch s No Depth (inch s No Depth (inch s No Depth (inch	nes): 720 nes): 720 Wetland	l Hydrology Preser	nt? Yes No
Remarks:	augu, munituring wen, aunar pr			

			Dominance Test worksheet:
			Number of Dominant Species (A)
			Total Number of Dominant
	2027 204 2 1779 1479 2017	-	Species Across All Strata:(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
			Prevalence Index worksheet:
0			Total % Cover of: Multiply by:
			OBL species x1=
_ 20% 01	total cuver		FACW species x2 =
10	V	FACU	FAC species x 3 =
5	4	descrives the second se	FACU species 40 x4= 160
		TACO	UPL species O x 5 = O
			Column Totals: 40 (A) 160 (B)
		(Casal)	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
	121.4434	- ALARANNI	1 - Rapid Test for Hydrophytic Vegetation
		C. Call	2 - Dominance Test is >50%
100.265	The sealing		3 - Prevalence Index is <3.0 ¹
			4 - Morphological Adaptations ¹ (Provide supporting
_ 20% of	lotal cover	5	data in Remarks or on a separate sheet)
5	J	FACH	Problematic Hydrophytic Vegetation ¹ (Explain)
10	-1-	Contraction of the state of the	¹ Indicators of hydric soil and wetland hydrology must
NACE REPORT OF STREET, LOC		EACO	be present, unless disturbed or problematic.
and the second second second second			Definitions of Four Vegetation Strata:
		Tantana arasa	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
		PERSON.	
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
62,02,536		CLARE SL	m) tall.
25			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
and a property from the second second second			
			Woody vine – All woody vines greater than 3.25 ft in height.
	A Print of the loss		
<u></u>			
	100.000		Hydrophytic
<u></u>	<u></u>	<u></u>	Vegetation
	Total Cov	er	Present? Yes No X
0 =			
	<u>% Cover</u> 0 20% of 10 5 15 20% of 5 10 10 10 10 20% of 10 20% of 10% of	% Cover Species? 0 = Total Cov 20% of total cover - 10 Y 5 Y	$\begin{array}{c} 0 &= \text{Total Cover} \\ 20\% \text{ of total cover} \\ 0 & \\ 10 & \\ 7 & \\ 5 & \\ 7 &$

ESS!

C

SOIL

Sampling Point: Whar 006-0

Profile Des	cription: (Describe)	to the depth r	needed to docur	nent the l	Indicator	or confirm	n the abso	nce of Indicato	rs.)	
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Textur		Remarks	
0-20	104R 518	100				Selfer di	CL		ravel	
The State										
1.832.02.1				1.1122	Constraints	111111				
1.5.11 S. 1.6.1.			and the contract of the	•						
1				1.1.1					Such as a state	
									a series and series and	
						A CONTRACT OF A DESCRIPTION	-	THE STREET	States and the states of the s	and the second second
								and the second s		
all a con	Summer Security	- Martine prote	and a state of the state of the				. Minister	N. Carter		a francisco de tradicione
									and the second	
Type: C=C	oncentration, D=Dep	etion, RM=Re	duced Matrix, M	S=Masked	sand Gr	ains.	² Location	1: PL=Pore Linir	ng. M=Matrix	. 1998 francisk andreas and statistic
	Indicators:			A BURNER			1	ndicators for Pr	oblematic H	lydric Solls ³ :
Histoso	(A1)		Dark Surface	(57)			-335.02	_ 2 cm Muck (/	A10) (MLRA	147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147	, 148)	_ Coast Prairie	Redox (A16	5)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 14		
	en Sulfide (A4)		Loamy Gleye		(F2)		1일 : 영날	_ Piedmont Flo		s (F19)
	d Layers (A5)		Depleted Ma					(MLRA 13		
	uck (A10) (LRR N)	- /	Redox Dark Depleted Da				30103 a r	Red Parent M Very Shallow		
	d Below Dark Surface ark Surface (A12)	e (A11)	Redox Depre				Steel 1	Other (Expla		
	Aucky Mineral (S1) (L	RRN	Iron-Mangan			LRR N.	1000			
	A 147, 148)		MLRA 13							
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)		³ Indicators of h		
	Redox (S5)		Piedmont Flo				48)	wetland hydr		
	Matrix (S6)				<u>6. 36 - 8</u>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Sec. Sec.	unless distur	bed or probl	ematic.
Restrictive	Layer (if observed):									
			_							~
Depth (in	ches):	Said Brank	<u> </u>				Hydric	Soll Present?	Yes	No
Remarks:				the second			7/15-17-24		Marine Street	

Environmental Field Surveys Wetland Photo Page



Upland data point wbar006_u facing northwest.



Upland data point wbar006_u facing southeast.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Bath County	Sampling Date: 4/21/2016
Applicant/Owner: Dominion	State: VA	Sampling Point: wbaf001f_w
Investigator(s): SH, SA	Section, Township, Range: No PLSS in this ar	
Landform (hillslope, terrace, etc.): Drainage	Local relief (concave, convex, none): <u>concave</u>	-
Subregion (LRR or MLRA): S Lat: 38.0970042	25 Long: <u>-79.55937643</u>	Datum: WGS 1984
Soil Map Unit Name:	NWI classi	ification: None
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology _ 🖌 significan	ntly disturbed? Are "Normal Circumstances	" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answ	wers in Remarks.)

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

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

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) ✓ High Water Table (A2) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
 Saturation (A3) Oxidized Rhizospheres on Living F 	
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	ils (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 <u>No</u> Depth (inches): <u>8</u>	
Water Table Present? Yes	Wetland Hydrology Present? Yes No
Water Table Present? Yes <u>Ves</u> No Depth (inches): 8	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes ✓ No Depth (inches): 8 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) O Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) O	
Water Table Present? Yes ✓ No Depth (inches): 8 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) O Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) O	
Water Table Present? Yes ✓ No Depth (inches): 8 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) O Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) O	
Water Table Present? Yes ✓ No Depth (inches): 8 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) O Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) O	
Water Table Present? Yes ✓ No Depth (inches): 8 Saturation Present? Yes ✓ No Depth (inches): 0 (includes capillary fringe) O Depth (inches): 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) O	

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

Sampling Point: wbaf001f_w

	Absolute	Dominant In	diaatar	Dominance Test worksheet:
Tree Stratum (Plot size: 0)			Status	
Acer rubrum	30	Yes	FAC	Number of Dominant Species That are OBL EACW or EAC: 4 (A)
1.	20	Yes	FACU	That Are OBL, FACW, or FAC:4 (A)
2. Quercus alba				Total Number of Dominant
3. Quercus bicolor	20		FACW	Species Across All Strata: 5 (B)
4. Pinus strobus	10	No	FACU	、
5 Platanus occidentalis	5	No	FACW	Percent of Dominant Species
··				That Are OBL, FACW, or FAC: 80 (A/B)
6				Prevalence Index worksheet:
7				
	85	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 42.5	20% of	total cover:	17	OBL species $50 \times 1 = 50$
Sapling/Shrub Stratum (Plot size: 0)				FACW species 25 x 2 = 50
Acer rubrum	10	Yes	FAC	FAC species 40 x 3 = 120
· ··			17.0	
2				FACU species 30 $x = 120$
3				UPL species $0 \times 5 = 0$
4				Column Totals: (A) (B)
5			<u> </u>	Prevalence Index = B/A =2.34
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
	10	= Total Cover		\checkmark 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:5		total cover:	2	4 - Morphological Adaptations ¹ (Provide supporting
	20 /8 01			data in Remarks or on a separate sheet)
	50	X		Problematic Hydrophytic Vegetation ¹ (Explain)
1Carex lupulina	- 50	Yes	OBL	
2				
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				One line (Ohmethin Manchenter en stadio en incenter)
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
				,
11			<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25	20% of	total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0)				height.
1				
2.				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes Ves No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet)			
	1000.)			

Depth	Matrix		Pada	x Feature	•		the absence of		
(inches)	Color (moist)	%	Color (moist)	<u>x reature</u> %	Type ¹	Loc ²	Texture	Ren	narks
0-2	10YR 4/2	95	7.5YR 4/6	5	C	PL/M	SIC		
2-5	10YR 5/1	90	10YR 6/6	3	С	М	С		
			7.5YR 4/6	7	С	PL/M			
5-18	2.5Y 6/2	60	7.5YR 5/8	25	С	М	С		
			5YR 4/6	15	С	PL			
					·	·			
						·			
					·	·			
						·			
	Concentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gra	ains.		Pore Lining, M=N	
Hydric Soil	I Indicators:						Indicato	ors for Problema	atic Hydric Soils ³ :
Histoso	ol (A1)		Dark Surface					m Muck (A10) (M	LRA 147)
Histic E	Epipedon (A2)		Polyvalue Be	low Surfa	ice (S8) (N	ILRA 147,	148) <u>Coa</u>	ast Prairie Redox	(A16)
Black H	Histic (A3)		Thin Dark Su	rface (S9) (MLRA 1	47, 148)	(MLRA 147, 148)	
Hydrog	jen Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		Pie	dmont Floodplain	Soils (F19)
	ed Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)	
	luck (A10) (LRR N)		Redox Dark \$. ,	-6)		•	y Shallow Dark S	Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar	,	,			er (Explain in Re	· · ·
	Dark Surface (A12)	(,)	Redox Depre						
	Mucky Mineral (S1) (L		Iron-Mangan						
		nn N,	-		es (F12) (LNN N,			
	RA 147, 148)		MLRA 13 Umbric Surfa		(MI DA 13	6 122)	³ India	store of hydrophy	tic vegetation and
	Gleyed Matrix (S4)		Piedmont Flo	. ,	•				-
	Redox (S5)			•	. ,	•	•	and hydrology mu	•
	ed Matrix (S6)		Red Parent N	laterial (F	-21) (WILR	A 127, 147	() unles	ss disturbed or pr	oblematic.
	Layer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil P	resent? Yes	No
Remarks:									



Photo 1 Wetland data point wbaf001f_w facing north



Photo 2 Wetland data point wbaf001f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline			City/County:	Bath County		Sampling D	ate: 4/21/201	6
Applicant/Owner: Dominion					State: VA	Sampling P	oint: wbaf001	e_w
Investigator(s): SH, SA			Section, Tow	nship, Range: <u>N</u>	PLSS in this area	a		
Landform (hillslope, terrace, etc.): Dra					none): <u>concave</u>		Slope (%): 2	
Subregion (LRR or MLRA): S		Lat: 38.09	706137	Long:	79.55901313		Datum: WG	S 1984
Soil Map Unit Name:								
Are climatic / hydrologic conditions on Are Vegetation, Soil, or Are Vegetation, Soil, or SUMMARY OF FINDINGS – A	the site typical for Hydrology	r this time of y significantl naturally p	rear? Yes y disturbed? roblematic?	No Are "Normal (If needed, e	(If no, explain in R Circumstances" p explain any answe	emarks.) vresent? Ye rs in Remark	es No ks.)	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌	No No No	- within	Sampled Area a Wetland?	Yes 🗹	No		
Remarks: Disturbed hydrology bermmed up area	a creating impour	ndment obaf00	01					
HYDROLOGY								

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Primary indicators (minimum of one is required, creck all that apply)	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Field Observations:	
Surface Water Present? Yes No Ves Depth (inches): Water Table Present? Yes No Ves Depth (inches):	
Saturation Present? Yes <u>Ves</u> No <u>Depth (inches)</u> : <u>U</u> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes <u>V</u> No <u></u> tions), if available:

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

Sampling Point: wbaf001e_w

Tree Stratum (Plot size: 0)		Dominant I		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4				、
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8	0	= Total Cove	r	OBL species x 1 =15
50% of total cover:0				FACW species x 2 =0
Sapling/Shrub Stratum (Plot size:)	20 % 01			FAC species 95 x 3 = 285
				FACU species $0 x 4 = 0$
1				UPL species x 5 =0
2				Column Totals: (A) (B)
3 4				Prevalence Index = B/A =2.72
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is $\leq 3.0^1$
		= Total Cove		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:	0	
<u>Herb Stratum</u> (Plot size:0) 1 <i>Arthraxon hispidus</i>	85	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Poa palustris	10	No	FAC	Definitions of Four Vegetation Strata:
3. Carex lupulina	10	No	OBL	
4. Juncus effusus	5	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11 12.				height.
12	110	= Total Cove	r	
50% of total cover:5		total cover:		
Woody Vine Stratum (Plot size:)	20 % 01			
1 2				
3				
4 5				
3		= Total Cove		Hydrophytic Vegetation
50% of total cover:0				Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations belo				
	w).			

Depth	Matrix		Redo	x Features	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	2.5Y 5/3	95	7.5YR 5/6	5	С	М	С	
4-10	2.5Y 5/1	85	5YR 4/6	5	С	PL	С	
			7.5YR 5/8	10	С	М		
10-18	2.5Y 6/2	85	10YR 5/6	15	С	М	С	
Type: C=C	Concentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: Pl	_=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Applic	able to al	I LRRs, unless othe	rwise note	ed.)		Indicators fo	r Problematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow Surfa	ce (S8) (L	RR S, T, U) 1 cm Muc	ck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)
	listic (A3)		Loamy Muck					Vertic (F18) (outside MLRA 150A,E
Hydrog	en Sulfide (A4)		Loamy Gleye	-			Piedmont	Floodplain Soils (F19) (LRR P, S, T
Stratifie	d Layers (A5)		 Depleted Ma 	trix (F3)			Anomalou	us Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		(MLRA	153B)
5 cm M	ucky Mineral (A7) (LF	R P, T, U) Depleted Da	rk Surface	(F7)		Red Pare	nt Material (TF2)
Muck P	resence (A8) (LRR U)	Redox Depre	essions (Fa	8)		Very Sha	llow Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other (Ex	plain in Remarks)
Deplete	ed Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,	T) ³ Indicate	ors of hydrophytic vegetation and
Coast F	Prairie Redox (A16) (N	/LRA 150	A) Umbric Surfa	ace (F13) (LRR P, T	, U)	wetlar	d hydrology must be present,
Sandy M	Mucky Mineral (S1) (I	.RR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless	disturbed or problematic.
Sandy (Gleyed Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 15	0A, 150B)		
Sandy F	Redox (S5)		Piedmont Florence	oodplain S	oils (F19)	(MLRA 14	9A)	
	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F20) (MLR	A 149A, 153C, 1	53D)
Dark Sı	urface (S7) (LRR P, S	5, T, U)						
Restrictive	Layer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Pr	esent? Yes 🖌 No
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	



Photo 1 Wetland data point wbaf001e_w facing east



Photo 2 Wetland data point wbaf001e_w facing west

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Bath County	Sa	ampling Date: 4/21/2016
Applicant/Owner: Dominion			Sampling Point: <u>wbaf001_u</u>
Investigator(s): SH, SA	Section, Township, Range		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex		Slope (%): <u>3</u>
Subregion (LRR or MLRA): S Lat: <u>38.096828</u>	59 Long: _	-79.55902609	Datum: WGS 1984
Soil Map Unit Name:		NWI classification	on: None
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes No 🗹	(If no, explain in Rem	narks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "No	rmal Circumstances" pres	sent? Yes No 🔽
Are Vegetation, Soil, or Hydrology naturally	v problematic? (If neede	ed, explain any answers i	in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Does not pass vegetation					

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)
	 Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
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 Descent 2 Ver No Y Darth (inches)	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 6	Wetland Hydrology Present? Yes <u>✓</u> No
Water Table Present? Yes No V Depth (inches):	
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes ✓ No Depth (inches): 6 (includes capillary fringe) ✓ No Depth (inches): 6	

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

Sampling Point: wbaf001_u

Absolute Dominant Indicator 1. Quercus alba 30 Yes Status 2. Pinus strobus 30 Yes FACU 3. Acer rubrum 20 Yes FACU 4. 20 Yes FACU Total Number of Dominant Species 7 5. 5. 9 Percent of Dominant Species 7 6. 7 80 = Total Cover 16 7. 50% of total cover 40 20% of total cover 16	(A) (B) 57 (A/B)
1. Quercus alba 30 Yes FACU That Are OBL, FACW, or FAC: 2 2. Pinus strobus 30 Yes FACU That Are OBL, FACW, or FAC: 2 3. Acer rubrum 20 Yes FAC Total Number of Dominant Species 7 4.	(B)
1. debted and 30 Yes FACU 2. Pinus strobus 30 Yes FACU 3. Acer rubrum 20 Yes FAC 4. 20 Yes FAC 5. 9 Percent of Dominant Species 7 6. 7 9 7. 80 = Total Cover	(B)
3. Acer rubrum 20 Yes FAC Total Number of Dominant 7 4. Percent of Dominant Species 7 5. . <td></td>	
3. Acer rubrum 20 Yes FAC Species Across All Strata: 7 4.	
4.	
5	57 (A/B)
6 7 80 = Total Cover to the second se	<u>57</u> (A/B)
7 Prevalence Index worksheet: <u>80</u> = Total Cover to <u>Device of:</u> Multiply by <u>Cover of:</u> Multiply by <u>Cover of:</u> <u>Multiply by</u> <u>Cover of:</u> <u>Multiply by</u> <u>Cover of:</u> <u>Multiply by</u>	
7	
	<u>:</u>
	- !
Sapling/Shrub Stratum (Plot size:)	
10 Yes FAC FAC species 35 x 3 = 105	
2 Pinus strobus 5 Yes FACU FACU species 73 x 4 = 292	
2 <u> </u>	
S 113 // 122	
4 Column Totals: (A)	(B)
5	
6 Hydrophytic Vegetation Indicators:	
7	
8	I
9 3 - Prevalence Index is ≤3.0 ¹	
= Total Cover1 Morphological Adoptations ¹ (Provide	supporting
50% of total cover: 7.5 20% of total cover: 6 1	
Herb Stratum (Plot size: 0)	,
Carex brevior 5 Yes UPL Problematic Hydrophytic Vegetation ¹ (Ex	plain)
2. Gaultheria procumbens 5 Yes FACU Indicators of hydric soil and wetland hydrolog	av must
3. <u>Pinus strobus</u> 3 No FACU Indicators of hydric soil and wetland hydrologic be present, unless disturbed or problematic.	jy musi
Athyrium asplenioides 3 No FAC	
4. Nation adjoining	
5. <u>1965 Austann</u> <u>2</u> <u>1965</u> Tree – Woody plants, excluding vines, 3 in. (
6 more in diameter at breast height (DBH), reg	76 cm) or
7. height	
7 height.	
7 height. 8 Sapling/Shrub – Woody plants, excluding vi	ardless of
7 height.	ardless of nes, less
7 height. 8 9 9 9 9	ardless of nes, less
7	ardless of nes, less 5.28 ft (1
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Profile Des	cription: (Describe t	o the de	pth needed to docun	nent the i	indicator of	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	s ,			
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture Remarks	
0-1	7.5YR 4/1	100					CL	
1-4	2.5Y 5/1	90	7.5YR 4/6	10	С	М	С	
4-16	2.5Y 6/2	80	10YR 5/6	20	С	М	С	
			·				·	
			·					
	oncentration, D=Depl	ation DN		Maaka			² Logation, DL Data Lining, M. Matrix	
Hydric Soil		elion, Riv	I=Reduced Matrix, Ma	S=IVIASKet	a Sand Gra	ans.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils	s ³ :
Histosol			Dark Surface	(\$7)			2 cm Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Be	· · ·	(S8) (M			
	listic (A3)		Thin Dark Su				(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye			47, 140)	Piedmont Floodplain Soils (F19)	
	d Layers (A5)		✓ Depleted Mat		(12)		(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark S	. ,	-6)		Very Shallow Dark Surface (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar	(,		Other (Explain in Remarks)	
	ark Surface (A12)	()	Redox Depre				<u> </u>	
	Mucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.		
-	A 147, 148)	,	MLRA 13			,		
	Gleyed Matrix (S4)		Umbric Surfa	,	(MLRA 13	6. 122)	³ Indicators of hydrophytic vegetation ar	nd
	Redox (S5)		Piedmont Flo					
	d Matrix (S6)		Red Parent N					
Restrictive	Layer (if observed):							
Туре:								
Depth (in	iches):						Hydric Soil Present? Yes 🖌 No	
Remarks:							•	



Photo 1 Upland data point wbaf001 facing southwest



Photo 2 Upland data point wbaf001 facing east

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Bath County Sampling Date: 4/21/2016
Applicant/Owner: Dominion	State: VA Sampling Point: wbaf001f_w
Investigator(s): SH, SA	Section, Township, Range: <u>No PLSS in this area</u>
Landform (hillslope, terrace, etc.): Drainage	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>2</u>
Subregion (LRR or MLRA): S Lat: 38.0970042	25 Long: <u>-79.55937643</u> Datum: WGS 1984
Soil Map Unit Name:	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _ 🛩 significa	ntly disturbed? Are "Normal Circumstances" present? Yes No _
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) ✓ High Water Table (A2) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
 Saturation (A3) Oxidized Rhizospheres on Living R 	
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	ils (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):	
Sunace water Present? res No Depth (inches)	
Water Table Present? Yes	Wetland Hydrology Present? Yes No
Water Table Present? Yes <u>Ves</u> No Depth (inches): 8	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	
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Water Table Present? Yes ✓ No Depth (inches):8 Saturation Present? Yes ✓ No Depth (inches):0 (includes capillary fringe)	