WEILAND DETERMINATION DATA F	ORM – Eastern Mountains and Pledmont Region
Project/Site: ACP	City/County: Randolph Sampling Date: 3/17/2016
Applicant/Owner: Dominion	State: WV Sampling Point: Wrap028e.
Investigator(s): ESI (R. Turabull)	Section Township Range: NA
	ocal relief (concave, convex, none):
	Long: _80.15575 Datum: WG 584
	-35% slapes NWI classification: PEM
보다. 경기 1982년 - 전시 1982년 1일 1982년 1일	이 사람들은 하나도 그렇게 되었다면 하나 하는데 하나를 보내면 되었다면 되었다면 되었다면 하나 사람들이 되었다면 사람들이 되었다면 하나 아니는데 하나 나를 보내는데 하나를 하나 때문에 되었다면 하다면 하는데 하는데 하는데 하는데 하나를 하나 되었다면 하는데
Are climatic / hydrologic conditions on the site typical for this time of y	그리트 [18] 18 이 아니는 그리고 그리고 있다면 모든 그리고 있는데 18 보이 18일 [18] 18 보이 18일 [18] 19 19 [18] 19 19 [18] 19 19 19 19 19 19
	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?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Down slope of Strip Mine	- within a Wetland? Yes Ves No No No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic I	
High Water Table (A2)  Hydrogen Sull	1987의 아이에 대한 1982의 대한 1982의 1982의 1982의 1982의 1982의 1982의 대한 1982의 1982
	cospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of R Recent Iron R	Reduced Iron (C4) Dry-Season Water Table (C2) Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Su	: 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -
Algal Mat or Crust (B4)  Other (Explain	경에게 하게 되었다면 하면 있는데 보다 보다 보다 보다 되었다면 보다 되었다면 보다 되었다면 보다 하는데 보다 되었다면 하게 되었다면 되었다면 되었다면 되었다면 보다 되었다면 보다면 보다 되었다면
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inchest includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

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

VEGETATION (Four Strata) - 03e scientific i	iailies of p	iains.		Sampling Form. With the second
70CL +70CL.	Absolute D			Dominance Test worksheet:
	% Cover			Number of Dominant Species
1. none				That Are OBL, FACW, or FAC: (A)
2				T
3				Total Number of Dominant Species Across All Strata: (B)
				Species Across All Strata (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0-100 (A/B)
6				
7				Prevalence Index worksheet:
	A	Total Cove	,	Total % Cover of: Multiply by:
50% of total cover:				OBL species $0-50$ x 1 = $0-50$
Sapling/Shrub Stratum (Plot size: 30 ft. × 20ft. )	20% 01 10	nai cover.		FACW species 10-60 x 2 = 20-120
The Carlot of the Carlot of State Control of the Co				FAC species 0-50 x3 = 0-150
1. None				
2				FACU species <u>5-55</u> x 4 = <u>20-220</u>
3				UPL species $0-50$ x 5 = $0-250$
			The property of the property of the party of	Column Totals: 65 (A) 90-790 (B)
4,				
5			CONTRACTOR STREET	Prevalence Index = B/A = 1.38 - 4.46
6,				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				[1] 2 A. S. L. A. B. P. C. L. B.
9.				2 - Dominance Test is >50%
	0	Total Cove		3 - Prevalence Index is ≤3.01
F00/ -[ ]	200/ -	total Cove	1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% 01 to	ital cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30 Ft. 20 Ft.)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Corex sp.		Y	UNK	Troblemade Hydrophydd Vegetadolf (Explan)
2. Juneus effuins	10	N	FACW	
3. Rubus allegheniensis	5	N	FACU	¹Indicators of hydric soil and wetland hydrology must
			PRODUCTION OF THE PARTY OF	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.				
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.	75			Herb – All herbaceous (non-woody) plants, regardless
	65 =-	Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 32.	5 20% of to	tal cover:_	13	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30ft. × 20ft. )				height.
1. none				
2.				
3				
3		9. 1. 2. 0. 0. 1		
4.				Hydrophytic
5				Vegetation
		Total Cove	r	Present? Yes No No
50% of total cover:	20% of to	tal cover:_		
Remarks: (Include photo numbers here or on a separate s	sheet.)	TAKE THE STATE OF		
		r	,	1 i wall I This
Carex species was not identifiable	bur wa	s frw	nd on	ly in weekand. It is
arrumed that the hydrophytic vege	tation c	eriteri	m 15	met.
的数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据				restruction supportation in the contract of th

Profile Description: (Describe to the dept	th needed to document the indica	tor or confirm	the absence of indic	ators.)
Depth Matrix	Redox Features	1		
(inches) Color (moist) %	Color (moist) % Tyr	be' Loc'	Texture	Remarks
0-20 lour3 1 100			CL_	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix MS=Masked Sand	Grains	<sup>2</sup> Location: PL=Pore L	ining M=Matrix
Hydric Soil Indicators:	. Todacca Maura, Mo-Masked Salit	Junio.		Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)			k (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (Si	3) (MI RA 147 1		irie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLI			147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	,,		Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)			136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		Very Shall	ow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		Other (Exp	olain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)			
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F1	2) (LRR N,		
MLRA 147, 148)	MLRA 136)			
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLR.			f hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F			drology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (Material (Material (F21) (Material	ALRA 127, 147)	uniess disti	urbed or problematic.
Restrictive Layer (if observed):				
Type:				
Depth (inches):			Hydric Soil Present	? Yes No
Remarks:				
Unable to retrieve deple	eted labor			
Whate is the tree week				



Wetland data point wrap028e\_w facing southwest.



Wetland data point wrap028e\_w facing southeast.

	WETLAN	D DETERMI	NATION DATA	FORM – Ea	stern Mounta	ins and	Piedmo	nt Region
Project/Site:	ACP			City/County	: Randolph		5	ampling Date: 3/17/2016
Applicant/Owner:	Domin	on						Sampling Point: Wrap 028_
								Slope (%): <b>20</b> - 30
								Datum: WGS84
					and the second property of the second			ion: N/A
			ypical for this time					
								sent? Yes V No
			gy natural					
SUMMARY C	OF FINDING	S – Attach	site map shov	ving samplir	g point locati	ons, trai	nsects, i	mportant features, etc.
Hydrophytic Veg Hydric Soil Pres Wetland Hydrold Remarks:	ent?	nt? Yes Yes Yes	NoNo	Is the with	e Sampled Area in a Wetland?	Ye	s	No
HYDROLOGY Wetland Hydrol	and the state of t	rs:				Seconda	ry Indicato	rs (minimum of two required)
			d: check all that an	nlv)			ace Soil Cr	
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres on Living Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled S Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)					) Living Roots (C3) (C4) illed Soils (C6)	Spar Drair Moss Dry-S Cray Satu Stun Geor Shal	rsely Veget nage Patte s Trim Line Season Wo fish Burrov ration Visil ted or Stre morphic Po low Aquita	rated Concave Surface (B8) rns (B10) rs (B16) ater Table (C2) vs (C8) ole on Aerial Imagery (C9) assed Plants (D1) osition (D2) rd (D3) nic Relief (D4)
Field Observati	ons:			.1.				
Surface Water P		Yes No	Depth (inc	ches): NIA				
Water Table Pre		Yes No	Depth (inc	ches): > 20	·			
Saturation Prese (includes capillar		Yes No	Depth (inc	cnes):	. Wetland	Hydrology	Present	Yes No
		am gauge, mon	toring well, aerial p	photos, previous	inspections), if av	railable:		
Dl-								
Remarks:								

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

2.0.13.0	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30ft, k30ft.)		Species?		Number of Dominant Species
1. Fagus grandiblia				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6			17 37	Prevalence Index worksheet:
7		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 20	20% of	total cover	er 8	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30 Ft. x 30 Ft.)	2070 01	total cover.		FACW species 6 x 2 = 0
1. Fagus grandifolia	50	Y	FACU	FAC species x 3 = 30
2				FACU species 90 x 4 = 360
CONTROLLEGICA CONTROL CONTROL OF A CONTROL O				UPL species
3				Column Totals: 160 (A) 390 (B)
4				
THE CONTROL OF THE ACCUSAGE AND A SECOND CONTROL OF THE SECOND CON				Prevalence Index = B/A = 3.9
6			<del></del>	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9		= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 25	20% of	total cover-	er In	4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size: 30ft. x 30ft.)	20% 01	total cover.		data in Remarks or on a separate sheet)
1. none				Problematic Hydrophytic Vegetation¹ (Explain)
17 P. 200 A. S. A. A. B. B. B. B. A. A. B.				
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			-	III) tall.
11	4	T. 10		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:		= Total Cov		of size, and woody plants less than 3.26 it tall.
Woody Vine Stratum (Plot size: 30f4, ×30f4.	20% 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
1. Smilax rotundifolia	10	V	FAC	height.
2.	Manager State State Colonia			
	Property of the Wilder			
3				
4				Hydrophytic
5	10	T		Vegetation   Present?   Yes No
E00/ of total square 5		= Total Cov		1103
	The state of the s	total cover:		
50% of total cover:5  Remarks: (Include photo numbers here or on a separate s	20% of	total cover:		

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the ir	ndicator o	or confirm	the abser	nce of indicat	ors.)	
Depth	Matrix			x Features					_ 10.01	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	artest for reaction company	Remark	5
0-6	104R3/2	100					CL			
6-20	104R414	106					CL			
		7.000	TO THE STATE OF TH				TO PARTY OF THE			
								<u> </u>		
					-11					
The second second										
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ins.		PL=Pore Lin		
Hydric Soil I							Inc			Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					2 cm Muck	1. 사용하다 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	NUMBER OF A LOSS OF THE PARTY O
	ipedon (A2)		Polyvalue Be				148)	ACOUNT IN CONTRACT THE PROPERTY OF THE		6)
Black His	BERNALDS AND		Thin Dark St			47, 148)		(MLRA 1		ile (E10)
	n Sulfide (A4) Layers (A5)		Loamy Gleye Depleted Ma		-2)			Piedmont FI (MLRA 1:		ווס (דוש)
	ck (A10) (LRR N)		Redox Dark		6)			_ Very Shallo		ice (TF12)
	Below Dark Surfac	e (A11)	Depleted Da					Other (Expla		
	rk Surface (A12)		Redox Depre							
	ucky Mineral (S1) (I	LRR N,	Iron-Mangan			RR N,				
	147, 148)		MLRA 13							
	leyed Matrix (S4)		Umbric Surfa							regetation and
	edox (S5)		Piedmont Flo					wetland hydro		
	Matrix (S6)	and principle	Red Parent I	Material (F2	21) (MLR/	A 127, 147	1)	unless disturt	oed or proble	ematic.
	ayer (if observed):						1			
Type:							l			/
Charles and Productive Contract	:hes):						Hydric S	Soil Present?	Yes	No
Remarks:										



Upland data point wrap028\_u facing northwest.



Upland data point wrap028\_u facing northeast.

	DETERMINATIO				
Project/Site: ACP		City/C	County: Rand	dolph	_ Sampling Date: 3/18/2016
Applicant/Owner: Dominio	NC			State: Jall	/ Sampling Point: Wrap029e.
Investigator(s): ESI(R.	Turnbull)	Secti	on, Township, Rar	nge: N/A	
Landform (hillslope terrace etc	1. draihage	Local rel	ief (concave, conv	yex none). Conca	ve Slope (%): 25-30
					Datum: WG 5 84
Soil Map Unit Name: Gilpin					
Are climatic / hydrologic condition					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "I	Normal Circumstances	" present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problems	atic? (If ne	eded, explain any ansv	vers in Remarks.)
SUMMARY OF FINDING	SS – Attach site m	ap showing san	pling point lo	ocations, transect	ts, important features, etc.
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present?	Yes _/	No No	Is the Sampled within a Wetlan	Area Yes <u>~</u>	No
Remarks: Downslope of st	rip mine				
HYDROLOGY					
Wetland Hydrology Indicator				A TOTAL CONTRACTOR OF CONTRACTOR CONTRACTOR OF CONTRACTOR	icators (minimum of two required)
Primary Indicators (minimum c	CONVERTING TO A SERVICE PROPERTY OF A CONCENSION	control or pertinguished false and representations of the		Surface So	
Surface Water (A1)		True Aquatic Plants (			/egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage F	
Saturation (A3)		Oxidized Rhizospher	100mm (10mm) : 10mm (10mm) (10mm) (10mm) (10mm)		
Water Marks (B1)		Presence of Reduced			n Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction			urrows (C8) Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer			Stressed Plants (D1)
Iron Deposits (B5)	_	Other (Explain in Rei	ilaiks)	A STATE OF THE PROPERTY OF THE	ic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)			Shallow Ac	
Water-Stained Leaves (B					graphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutr	그들이 있는 그들은 이렇게 되었다면 한다면 살아보는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):	2		
Water Table Present?	Yes No No	Depth (inches): 544	Face		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches): She	face Wel		ent? Yes Vo
Describe Recorded Data (stream	am gauge, monitoring w	rell, aerial photos, pre	vious inspections)	, if available:	
Remarks:					
Kemarks.					

The straight and the depth of the second of	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft. x loft. )	% Cover Species? Status	
1. none	The management was the partition for some engagement of the exercise of the	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
		That Ale OBL, FACW, of FAC (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		That Ale OBL, FACW, of FAC (A/B)
		Prevalence Index worksheet:
7	A	Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 30ft. x 10 ft. )		FACW species x 2 =
1. none		FAC species x 3 =
2		FACU species x 4 =
3		UPL species x 5 =
100000 man from the late of the control of the Cont		Column Totals: (A) (B)
4		Column Fotals: (x) (s)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		
8		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
9,		3 - Prevalence Index is ≤3.01
	= Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30ft. x 10 ft.)		기를 보면 하는 경기에 되었는데 보다는 선생님에게 하면 problem (1) 전환 (1)
1. Packera aurea	40 Y FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.		
[1] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3		be present, unless disturbed or problematic.
4		Definitions of Four Vegetation Strata:
5		
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or 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
10		m) tall.
11		Herb – All herbaceous (non-woody) plants, regardless
	40 = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2-6	20% of total cover: 8	
Woody Vine Stratum (Plot size: 364-10FL)	20% of total cover	Woody vine – All woody vines greater than 3.28 ft in
I recompanies for the teach appropriate control of the control of		height.
1. Mone		
2		
3.		
4.		
5.		Hydrophytic
	O = Total Cover	Vegetation Present? Yes No
		Tresent.
50% of total cover:	20% of total cover;	
Remarks: (Include photo numbers here or on a separate :	sneet.)	

Profile Description: (Describe to the depth	needed to document the indicator or con-	irm the absence of indicato	rs.)
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Service Committee of the Committee of th	Remarks
0-20 104R3/1 100		_ <u>SL</u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re	educed Matrix MS-Masked Sand Grains	<sup>2</sup> Location: PL=Pore Lining	ng M-Matrix
Hydric Soil Indicators:	educed Madix, MS=Masked Saild Grains.		oblematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)		(10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 1		
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148	201 BACON DANG TAN BUTUN DANG SANG BUTUN BANGKAN BANGKAN BANGKAN BANGKAN	(2011) - 보이 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		odplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 13	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		Dark Surface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7)     Redox Depressions (F8)	Other (Explai	n in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		drophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA		ogy must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127,	147) unless disturbe	ed or problematic.
Restrictive Layer (if observed):			
Type:			v / v-
Depth (inches):		Hydric Soil Present?	Yes No
Remarks:			
Unable to retrieve deplete	d layer.		



Wetland data point wrap029e\_w facing south.



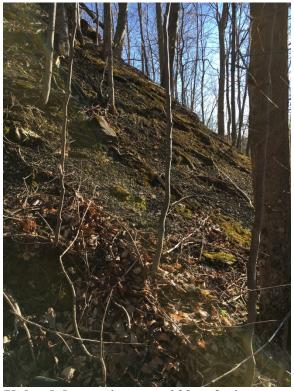
Wetland data point wrap029e\_w facing west.

#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region Project/Site: ACP City/County: Randolph Sampling Date: 3/18/2016 Applicant/Owner: Dominion State: WV Sampling Point: wrap 029 - u Investigator(s): ESI (R. Turnbull) Section, Township, Range: N/A Landform (hillslope, terrace, etc.): Willslope Local relief (concave, convex, none): Concave Slope (%): 30-35% Subregion (LRR or MLRA): LRR N Lat: 38. 616% Long: - 80, 15675 Datum: WG 5 84 Soil Map Unit Name: Gilpin channery silt lown 25.35% slopes NWI classification: N/A 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 \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Yes \_\_\_\_\_ No\_\_ Hydric Soil Present? Yes No V within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_ Surface Water (A1) Sparsely Vegetated Concave Surface (B8) \_\_\_ True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) High Water Table (A2) \_\_\_ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) \_\_ Moss Trim Lines (B16) Presence of Reduced Iron (C4) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Water Marks (B1) Recent Iron Reduction in Tilled Soils (C6) \_\_ Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) \_\_\_ Thin Muck Surface (C7) \_\_\_ Drift Deposits (B3) \_\_ Stunted or Stressed Plants (D1) \_ Algal Mat or Crust (B4) Other (Explain in Remarks) \_\_\_ Iron Deposits (B5) Geomorphic Position (D2) \_\_\_ Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) \_\_\_ Microtopographic Relief (D4) Water-Stained Leaves (B9) \_\_\_ FAC-Neutral Test (D5) \_\_\_ Aquatic Fauna (B13) Field Observations: Yes \_\_\_\_ No \_\_\_ Depth (inches): N/A Surface Water Present? Yes \_\_\_\_ No \_\_ Depth (inches): >4 Water Table Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): >4 Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No\_\_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: auger refusal at Linches, no surface hydrology indicators noted. Remarks:

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

1. Fagus grandifolia 2. Acer saccharuna 3. 4. 5. 6. 7. Sapling/Shrub Stratum (Plot size: 30ft. x 30ft.) 1. Fagus grandifolia 2. Acer pensylvanicum 3.	30 20 50 20% of 40 20	Species? Y Y = Total Cov total cover:	Status PACU FACU	Dominance Test worksheet:           Number of Dominant Species         A         (A)           Total Number of Dominant Species Across All Strata:         5         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         0         (A/B)           Prevalence Index worksheet:         Multiply by:         (A/B)           OBL species         0         x 1 = 6           FACW species         0         x 2 = 0           FAC species         0         x 3 = 0           FACU species         1 (5         x 4 = 460           UPL species         0         x 5 = 0           Column Totals:         1 (5         (A)         460         (B)
4	60 20% of 5	= Total Cover:	er 12 FACU	Prevalence Index = B/A =
6	5 .	= Total Cove	er	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.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
2		= Total Cov total cover:		Hydrophytic Vegetation Present? Yes No

	cription: (Describe	to the depth				or confirm	the absence	of indicators.)	
Depth (inches)	Color (moist)	%	Color (moist)	x Feature %		Loc <sup>2</sup>	Texture	R	emarks
0-4	104822	100					SL	gravel	present
Hydric Soil Histosol Histic E Black H Hydroge Stratifie 2 cm Mi Deplete Thick D Sandy M R Sandy C	oncentration, D=Dep Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) (LA 147, 148) Gleyed Matrix (S4) Redox (S5)	e (A11)	Peduced Matrix, MS  Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Su Depleted Dai Redox Depre Iron-Mangan MLRA 13 Umbric Surfa	e (S7) elow Surfa urface (S9) ed Matrix ( trix (F3) Surface (Fr k Surface essions (Fr ese Mass 6)	ce (S8) (M ) (MLRA 1 F2) (6) (F7) 8) es (F12) (I	ILRA 147, 47, 148) LRR N,	Indica 2 148) 0 P V 0	cm Muck (A10) coast Prairie Red (MLRA 147, 14) iedmont Floodpl (MLRA 136, 14) ery Shallow Darl other (Explain in literators of hydrop	matic Hydric Soils <sup>3</sup> : (MLRA 147) ox (A16) 8) ain Soils (F19) 7) c Surface (TF12)
_ Stripped	Matrix (S6) Layer (if observed):		Red Parent N					less disturbed or	
Туре:			<u> </u>						
Depth (in temarks:	ches):						Hydric Soil	Present? Ye	s No
Auger	- refusal 6	941	nches (Ro	ick/B	Red roc	le)			



Upland data point wrap029\_u facing east.



	- Lastern Mountains and Fledmont Region
	/County: Randolph Sampling Date: 3/18/2016
Applicant/Owner: Dominion	State: WV Sampling Point: WC4P030e
Investigator(s): ESI (R. Turnbull) Sec	
	elief (concave, convex, none):cmcaveSlope (%): 20 -25
	Long:80.15665 Datum: WG584
Soil Map Unit Name: Cookport Variant silt loam, 3-8%, 51	NWI classification: PEM
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 distu	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Downslope of strip Mine	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants	
High Water Table (A2)  Hydrogen Sulfide O	
	eres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduction Sediment Deposits (B2) Recent Iron Reduction	1917 [1917] [1918] [1919] [191
Sediment Deposits (B2) Recent from Reduction Drift Deposits (B3) Thin Muck Surface (	원경기에서 전문 전쟁 환경기 시작하는 19일 시간 이 전문
Algal Mat or Crust (B4) Other (Explain in Re	
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):	2
Water Table Present? Yes No Depth (inches):_544	rface
Saturation Present? Yes No Depth (inches):_5ta	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	

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

Number of Dominant Species That Are OBL, FACW, or FAC:
Species Across All Strata:
That Are OBL, FACW, or FAC:
Total % Cover of:  OBL species
Total % Cover of:  OBL species
OBL species x 1 =
FACW species x 2 =
FAC species x 3 =
FACU species x 4 =
UPL species x 5 = (A) (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
Column Totals:
Prevalence Index = B/A =
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
data in Remarks or on a separate sheet)  — Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must
¹Indicators of hydric soil and wetland hydrology must
¹Indicators of hydric soil and wetland hydrology must
I indicators of hydric soil and wetland hydrology must
he present unless disturbed or problematic
be present, unless disturbed of problematic.
Definitions of Four Vegetation Strata:
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.
Herb – All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vine – All woody vines greater than 3.28 ft in height.
Hoight.
Hydrophytic Vegetation
Present? Yes No No
4

	cription: (Describe t	to the depth i				or confirm	the ab	sence of indic	ators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type <sup>1</sup>	_Loc²	Tevt	ure	Remar	ks
0-20	104K3/1	100	Color (moist)	70	Турс	Loc	5	and the second s	Kemai	NJ
0-60	10 [K 3]]	100	And the control of th	-			-			
							-			
					i de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com					
The state of the s		The state of the s		-		-				
				- The Toler   1975		-				
17			alcond Massie AA	C Maskad			21	ian Di Dara I	ining M Mai	-iu
Hydric Soil	oncentration, D=Depl	etion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ains.	Locat	ion: PL=Pore L	Problematic	Hydric Soils <sup>3</sup> :
			Dark Surface	(67)						
Histoso	i (A1) pipedon (A2)		Dark Surface Polyvalue Be		co (Sp) (8)	II DA 147	149)	2 cm Mucl		
	istic (A3)		Polyvalue Be Thin Dark St				140)		147, 148)	10)
	en Sulfide (A4)		Loamy Gleye			77, 140)		Piedmont		oils (F19)
	d Layers (A5)		Depleted Ma		,				136, 147)	
The second control of	uck (A10) (LRR N)		Redox Dark		6)				low Dark Surf	ace (TF12)
	d Below Dark Surface	(A11)	Depleted Da	tas are included included in 7.5%					olain in Rema	
Thick D	ark Surface (A12)		Redox Depre							
The commence of the Additional Printing Co., which	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (	LRR N,				
	A 147, 148)		MLRA 13							
	Gleyed Matrix (S4)		Umbric Surfa							vegetation and
	Redox (S5)		Piedmont Florage Red Parent N						drology must urbed or prob	
	Matrix (S6) Layer (if observed):		Red Parent	viateriai (F	ZI) (WILK	A 121, 141	1	uniess dist	in bed or prob	iemauc,
	Layer (ii observed).									
Type:			-				. I to a dark	is Call Decome	2 Van le	
POLICIA SERVICIONE E NO DESCRICTO DO	ches):		-				Hydri	ic Soil Present	r res_p	NO
Remarks:										
11-61	e to retrieve	e dealet	ed lamer							
Unable	- 10 I COLLEGE	- aspier	an larger							



Wetland data point wrap030e\_w facing east.



Wetland data point wrap030e\_w facing north.

WEILAND DETERMINATION D			
Project/Site: ACP	City/County:	Randolph	Sampling Date: 3/17/2016
Applicant/Owner: Dominion		State: WV	Sampling Point: Wrap 030_
Applicant/Owner: Dominion Investigator(s): ESI (R. Thrabull)	Section, Townsh	nip. Range: N/A	
Landform (hillslope, terrace, etc.): hillslope	Local relief (concav	re. convex. none): Concave	Slone (%): 10 -15
Subregion (LRR or MLRA): LRRN Lat:	38 61029	Long: -80-15676	Datum: WG 584
Soil Map Unit Name: Cookport Variant silt lo	7-8% -1-005	Long	Datum
Associated the design of the state of the st	im 5-0 60 stopes	NWI classifica	ntion:
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrology si			
Are Vegetation, Soil, or Hydrology na	aturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing sampling po	oint locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:	within a	mpled Area Wetland? Yes	_ No
HYDROLOGY  Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all the	nat apply)	Surface Soil C	Cracks (B6)
	Aquatic Plants (B14) ogen Sulfide Odor (C1)	Sparsely Vege Drainage Patt	etated Concave Surface (B8) erns (B10)
- No. 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	zed Rhizospheres on Living		
	ence of Reduced Iron (C4)	Dry-Season W	
Sediment Deposits (B2) Rece	nt Iron Reduction in Tilled S	Soils (C6) Crayfish Burro	ows (C8)
	Muck Surface (C7)		ible on Aerial Imagery (C9)
	r (Explain in Remarks)		essed Plants (D1)
Iron Deposits (B5)		Geomorphic F	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	
Water-Stained Leaves (B9) Aquatic Fauna (B13)		Microtopograp FAC-Neutral 1	
Field Observations:		FAC-Neutral I	est (D5)
	th (inches): N/A		
Surface Water Present? Yes No Dept Water Table Present? Yes No Dept	th (inches): > 20		
Saturation Present? Yes No Dept	th (inches): >26	Wetland Hydrology Present	? Yes No/_
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspe	ections), if available:	
Remarks:			

Tree Stratum (Plot size: 30 Pt. x 36 Pt. )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Fagus grandifolia				Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6				Prevalence Index worksheet:
	40	= Total Cov	er	Total % Cover of:Multiply by:
50% of total cover: 20	20% of	total cover:	8	OBL species
Sapling/Shrub Stratum (Plot size: 30ft. × 30ft.			-	FACW species 0 x 2 = 0
1. Fagus grandi blia	20	- Y	FACU	FAC species $0 \times 3 = 0$ FACU species $75 \times 4 = 300$
2. Acer pensylvanica	10	4	FACU	UPL species
3				Column Totals: 75 (A) 300 (B)
5				Prevalence Index = B/A = 4.0
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
	30	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 15	20% of	total cover:	6	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 30 fl. x 30 fl.)				data in Remarks or on a separate sheet)
1. Polystichum acrostichoides	5	7	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3		_		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of 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.
111	5	Total Cov	er .	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30ft, ×30ft,	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in height.
1. None				
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
50% of total cover:		= Total Cover:		Present TesNU
Remarks: (Include photo numbers here or on a separate sl	neet.)			

nches)	Matrix		Redo	x Features						
	Color (moist)	_ %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	5
0-5	104RZ12	106					SL			
5-20	104R4/4	100					CL			
						e er Spyrinkel				
<u> </u>		-				2000000				
					-					
ne: C=Cor	centration, D=Dep	letion. RM=F	Reduced Matrix, MS	=Masked S	and Grai	ns.	<sup>2</sup> Location	PL=Pore Lir	ning, M=Matri	x.
dric Soil In							Inc	dicators for F	roblematic I	Hydric Soils <sup>3</sup> :
Histosol (A	A1)		Dark Surface	(S7)			_	2 cm Muck	(A10) (MLRA	147)
	pedon (A2)		Polyvalue Be				48)	Coast Prairi		6)
Black Hist			Thin Dark Su			7, 148)		(MLRA 1		
	Sulfide (A4)		Loamy Gleye		2)				loodplain Soi	IS (F19)
	Layers (A5) k (A10) (LRR N)		Depleted Mat		1			(MLRA 1	w Dark Surfa	ce (TF12)
	Below Dark Surface	e (A11)	Depleted Dar						ain in Remarl	
	k Surface (A12)		Redox Depre							
	icky Mineral (S1) (L	RR N,	Iron-Mangan		(F12) (LI	RR N,				
	147, 148)		MLRA 13							
	eyed Matrix (S4)		Umbric Surfa							egetation and
Sandy Re			Piedmont Flo					wetland hydr unless distur		
Stripped N	yer (if observed):		Red Parent N	lateriai (FZ)	i) (WILKA	127, 147)		uniess distai	bed of proble	mauc.
	iyer (ii observed).									
CHARLEST THE STREET	nes):		_				Hydric S	oil Present?	Yes	No V
marks:	100);									o appropriate xora cost
marks.										



Upland data point wrap030\_u facing south.



			ern Mountains and Pledn	
Project/Site: ACP		City/County: _	Randolph	_ Sampling Date: 3/18/2016
Applicant/Owner: Domin	ion		State: WV	Sampling Point: wrap 031
Investigator(s): ESI (R.	Turnbull)	Section, Town	ship, Range: NA	
				Slope (%): 2-5°
Subregion (LRR or MLRA):	LRRN Lat: 38	.60953	Long: -80.15714	Datum: いら584
Soil Man Unit Name: Udack	thents mud stone	and chale low	base NWI classifi	cation: PEM
			No (If no, explain in I	
	경영하는 여러분 경험을 살아왔다면 모양하는 사람이 없었다면 살아 있다.			
				present? Yes No
			(If needed, explain any answ	
SUMMARY OF FINDING	3S – Attach site map s	howing sampling	point locations, transect	s, important features, etc.
Hydrophytic Vegetation Presenty Hydric Soil Present? Wetland Hydrology Present?		within	Sampled Area a Wetland? Yes	No
Remarks: Strip Mine				
HYDROLOGY				
Wetland Hydrology Indicator			DE VIII DE VII	ators (minimum of two required)
Primary Indicators (minimum o			Surface Soi	
Surface Water (A1)		Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)		ogen Sulfide Odor (C1) zed Rhizospheres on Liv		ines (B16)
Water Marks (B1)		ence of Reduced Iron (C		Water Table (C2)
Sediment Deposits (B2)		nt Iron Reduction in Tille		
Drift Deposits (B3)		Muck Surface (C7)		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		(Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)				Position (D2)
Inundation Visible on Aeri	al Imagery (B7)		Shallow Aqu	uitard (D3)
Water-Stained Leaves (BS	9)			aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutra	l Test (D5)
Field Observations:				
Surface Water Present?	Yes No Dept	h (inches):		
Water Table Present?	Yes No Dept	h (inches): Jhe Pace		
Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes No Dept		Wetland Hydrology Prese pections), if available:	nt? Yes V No
Remarks:				
Frog eggs				
<ul> <li>In a constant of the control of the co</li></ul>				

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

는 MT 1986 (1) 전 보이 다양되었다. 12명 등 12명 등 12명 전 12명 전 12명 (1) 보고 12명 (1) 12명 (1) 12명 (1) 12명 (1) 12명 (1) 12명 (1) 1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20ft.)	% Cover	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC: (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: [00 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 20 Pt. x 20 Pt.)				FACW species x 2 =
1. none				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Provolence Inday - R/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
	0	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover:				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 20 Pt. x 20 Pt.)				data in Remarks or on a separate sheet)
1. Juneus effersus	40	Y	FACIN	Problematic Hydrophytic Vegetation¹ (Explain)
2. Rubus allegheniensis	10	7	FACU	
3. Dichanthelium scoparium	30		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			Deliver street and the second	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8,				Sapling/Shrub - Woody plants, excluding vines, less
9,				than 3 in. DBH and greater than or equal to 3.28 ft (1
10			-	m) tall.
11.				Herb All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>40</u>	20% of	total cover:	10	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: Zofl-k2ofl.)				height.
1. none		- 100 Million (197	**************************************	
2.		- 1		
4				Hydrophytic
				Vegetation
5				
550% of total cover:		= Total Cov		Present? Yes No

Depth (inches)	Matrix			ox Features			the absence			
(IIICHES)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-16	104R3/1	80	104R5/6	20	C	M	SCL			
				Jan 1970						
				-						
Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: F	PL=Pore Lini	ng, M=Matrix.	
	Indicators:								roblematic Hydr	ic Soils <sup>3</sup> :
_ Histosol			Dark Surfac						A10) (MLRA 147	)
	pipedon (A2)		Polyvalue B				148)		Redox (A16)	
_ Black Hi	stic (A3) en Sulfide (A4)		Thin Dark S Loamy Gley			47, 148)		(MLRA 14	oodplain Soils (F	19)
	Layers (A5)		Depleted Ma		-,			(MLRA 13		
	ick (A10) (LRR N)		Redox Dark						v Dark Surface (7	F12)
	d Below Dark Surface	(A11)	Depleted Da				'	Other (Expla	in in Remarks)	
	ark Surface (A12) lucky Mineral (S1) (L	RR N.	Redox Depr Iron-Mangar			RR N.				
A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	147, 148)		MLRA 1		,, ,,,,					
	Gleyed Matrix (S4)		Umbric Surf						ydrophytic veget	
_ Sandy R	ledox (S5) Matrix (S6)		Piedmont FI Red Parent						logy must be pre ed or problemati	
	Layer (if observed):		Red Falent	iviateriai (i 2	21) (WILK	127, 147		niess distart	ea or problemati	<b>9</b>
Type:										
THE RESERVE OF THE PARTY.	ches):						Hydric So	Il Present?	Yes	No
emarks:		,	school les	4/Rea	1 rock					
emarks:	~CI@	16 1								
emarks:	refusal @	16 it	(John Chap)							
emarks:	refusel @	16 in	(one) Cles							
emarks:	refusel @	16 in	(Dives Clean							
emarks:	refusel @	16 in	(or c)							
emarks:	refusel @	16 in	iones (pe							
emarks:	refusel @	16 14								
emarks:	refusel @	16 in								
emarks:	refusel @	16 in								
emarks:	refusal @	16 iv								
emarks:	refusal @	16 in								
emarks:	refusel @	16 in								
emarks:	refusal @	16 iv								
emarks:	refusal @	16 iv								
emarks:	refusel @	16 in								
emarks:	refusal @	16 iv								
emarks:	refusal @	16 iv								
emarks:	refusel @	16 iv								



Wetland data point wrap031e\_w facing northwest.



Wetland data point wrap031e\_w facing southwest.

WETLAND DETERMINATION DA	ΓA FORM – Eastern Mountains and Piedmont Regio	on .
Project/Site: ACP	City/County: Randolph Sampling D	Date: 3/18/2016
Applicant/Owner: Dominion	State: WV Sampling	Point: Wrap 031_
Investigator(s): ESI (R. Turnbull)	Section, Township, Range: N/A	
	Local relief (concave, convex, none):Cancave	
Subregion (LRR or MLRA): LRRN Lat: 38,	60956 Long: <u>-80.15706</u> [	Datum: WGS84
	hale, low base NWI classification: N/	
. 이 1827 NG 1828 NG 182 NG 1828 NG 1821 NG 1821 NG 1921 NG 1922 NG 1922 NG 1822 NG 1822 NG 1822 NG 1822 NG 182	ne of year? Yes No (If no, explain in Remarks.)	
그렇게 살아 없는 얼마나 있다. 그는 그들은 사람들은 아이들은 그리고 있었다. 그는 그들은 사람들은 사람들은 그리고 있다면 그리고 있다. 그리고 있는 것은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들	ficantly disturbed? Are "Normal Circumstances" present? Ye	s V No
	rally problematic? (If needed, explain any answers in Remark	
	owing sampling point locations, transects, importa	
SOMINIARY OF FINDINGS - Attach site map site	wing sampling point locations, transects, importain	in reatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No	within a Wetland? Ves No /	_
Wetland Hydrology Present? Yes No		
Remarks:		
Strip Mine		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimu	ım of two required)
Primary Indicators (minimum of one is required; check all that	apply) Surface Soil Cracks (B6)	
	uatic Plants (B14) Sparsely Vegetated Conc	cave Surface (B8)
	en Sulfide Odor (C1) Drainage Patterns (B10)	
	Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)	(a.a.)
	e of Reduced Iron (C4) Dry-Season Water Table	(C2)
	ron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) ck Surface (C7) Saturation Visible on Aeri	ial Imagery (C9)
	ixplain in Remarks) Stunted or Stressed Plan	
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:	.1/4	
Surface Water Present? Yes No Depth	inches): N/A	
Water Table Present? Yes No Depth		
Saturation Present? Yes No Depth (includes capillary fringe)	inches): Wetland Hydrology Present? Yes	No
Describe Recorded Data (stream gauge, monitoring well, aeria	Il photos, previous inspections), if available:	
Remarks:		
auges refusal at 3 inches	no surface hydrology indicators note	ed .
auger rends		

Sampling Point: 6	Jrap8	31-4
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Tree Stratum (Plot size: 30ft. x30ft) % Cover Species?  1.	That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:  Total % Cover of:  OBL species FACW species FACW species FACU species F
2	Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Total % Cover of:  OBL species  FACW species  FACW species  FACU species  FACU species  Oxaminant Species  Multiply by:  Were OBL species  FACW species  FACW species  Oxaminant Species  Multiply by:  A 1 = Oxaminant Species  A 2 = U0  FACW species  Oxaminant Species  A 3 = Oxaminant Species  A 4 = U0  FACW species  A 5 = Oxaminant Species  A 5 = Ox
3	Species Across All Strata:
4	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:
5	Percent of Dominant Species
6	That Are OBL, FACW, or FAC:
7	Total % Cover of: Multiply by:  OBL species
50% of total cover: 20% of total cover   20% of total cover	Total % Cover of: Multiply by:  OBL species
50% of total cover: 20% of total cover  Sapling/Shrub Stratum (Plot size: 3 of t. x 3 of t. )  1.	OBL species
Sapling/Shrub Stratum (Plot size: 3 of t. x 3 of t. )   1.	FACW species 20 x 2 = 40  FAC species 0 x 3 = 0  FACU species 60 x 4 = 240  UPL species 0 x 5 = 0  Column Totals: 80 (A) 280 (B)  Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:
1. NONE  2	FAC species
2	FACU species 60 x 4 = 240  UPL species x 5 = 0  Column Totals: 86 (A) 280 (B)  Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
3	UPL species  x 5 = 0 Column Totals:  (A) 230 (B)  Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:
4	Column Totals: 86 (A) 280 (B)  Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
4	Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
5	Prevalence Index = B/A = 3.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
6	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
7	1 - Rapid Test for Hydrophytic Vegetation
8	
9 = Total Cov	
= Total Cov	2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.0¹
50% of total cover: 20% of total cover	4 - Morphological Adaptations (Provide Supporting
Herb Stratum (Plot size: 30 Ft. x 30 Pt.)	data in Remarks or on a separate sheet)
1. Andropogon virginions 30 Y	FACU — Problematic Hydrophytic Vegetation¹ (Explain)
2. Rubus allegheniensis 30 Y	FACU
3. Dichanthelium scoparium 20 Y	Indicators of hydric soil and wetland hydrology must
	De present, unless disturbed of problematic.
4.	
5,	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6.	more in diameter at breast height (DBH), regardless of
7.	
B.	Sapiniq/Sinub - 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
80 = Total Cov	
50% of total cover: 40 20% of total cover	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 Ph. x 30 Pl.)	height.
1. none	
2. (http://doi.org/10.00000000000000000000000000000000000	
3.	
4.	- Hydrophytic
5.	Vegetation
= Total Cov	그래요 하는 아니라는 이 시간에 가는 요면 하면 되었다면서 하나 있다. 이 그는 그들은 이 사람이 하는 아니라 하는데 나를 하는데
50% of total cover: 20% of total cover	

Depth Matrix	th needed to docum Redox	c Features			
(niches) Color (moist) % (0-3) (194222 100)	Color (moist)		Loc²	Texture SL	Remarks
ype: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS	=Masked Sand	Grains.		re Lining, M=Matrix.
ydric Soil Indicators:	Dark Surface	(67)			for Problematic Hydric Soils <sup>3</sup> : /luck (A10) (MLRA 147)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5)		ow Surface (S8) face (S9) (MLR d Matrix (F2)		148) Coast (ML Piedmo	Prairie Redox (A16) RA 147, 148) ont Floodplain Soils (F19) RA 136, 147)
_ 2 cm Muck (A10) (LRR N) _ Depleted Below Dark Surface (A11) _ Thick Dark Surface (A12)	<ul><li>Redox Dark S</li><li>Depleted Dar</li><li>Redox Depre</li></ul>	Surface (F6) k Surface (F7) ssions (F8)		Very S	hallow Dark Surface (TF12) (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 136	e (F13) (MLRA	136, 122)		rs of hydrophytic vegetation and
_ Sandy Redox (S5) _ Stripped Matrix (S6)	Piedmont Florage Red Parent M	odplain Soils (F <sup>*</sup> laterial (F21) <b>(M</b>			hydrology must be present, disturbed or problematic.
estrictive Layer (if observed):					
Type:				Hudria Sail Bras	sent? Yes No
Depth (inches):emarks:				nyunc 3011 Fres	Senti resNo_P
Anger refusal @ 3 in	ches (Roch	/ Bedroc	ke)		



Upland data point wrap031\_u facing southeast.



Upland data point wrap031\_u facing northeast.

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

Project/Site: Atlantic Coast Pipeline	Site: Atlantic Coast Pipeline City/County: Randolph County								
				State: WV Sampling Point: wrae200					
Investigator(s): CG, SH Section, Township, Range: No PLSS in this area									
Landform (hillslope, terrace, etc.): Skidder trail Local relief (concave, convex, nor									
Subregion (LRR or MLRA): N Lat: 38.60900149 Long: -80									
Soil Map Unit Name: Cookport variant silt	loam, 3 to 8 p	percent slopes		NWI classifi	cation: None				
Are climatic / hydrologic conditions on the	site typical fo	r this time of year? Y	′es No	(If no, explain in F	Remarks.)				
Are Vegetation, Soil, or Hy	/drology	significantly distur	bed? 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?	Yes 🗸	No No	Is the Sampled Area within a Wetland?	Vac V	No				
Wetland Hydrology Present?		No	within a wetland:	165					
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)				
Primary Indicators (minimum of one is re	auired: check	all that annly)		Surface Soi					
			P14)						
✓ High Water Table (A2)	Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B  ✓ High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)								
Saturation (A3)				Moss Trim L					
Water Marks (B1)		Water Table (C2)							
Sediment Deposits (B2)	d Iron (C4) on 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	Shallow Aquitard (D3)								
Water-Stained Leaves (B9)			Microtopographic Relief (D4)						
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)				
Field Observations:									
		Depth (inches):							
		Depth (inches):	12						
	No	Depth (inches):	0 Wetland H	Hydrology Present? Yes No					
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
		, , , , , , ,	, ,,						
Remarks:									

#### ٧

	Absolute	Dominant I	ndicator	Dominance Test worksheet:			
ree Stratum (Plot size:)	% Cover	Species?	Status_	Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)		
				Total Number of Dominant Species Across All Strata: 2	(B)		
				Percent of Dominant Species That Are OBL, FACW, or FAC:  100	(A/B		
				Prevalence Index worksheet:			
				Total % Cover of: Multiply by:			
50% of total cover: 0		= Total Cove total cover:	er O	OBL species 10 x 1 = 10			
15	20% 01	total cover		FACW species 40 x 2 = 80			
apling/Shrub Stratum (Plot size:)				FAC species 80 x 3 = 240			
				FACU species 0 x 4 = 0			
·				UPL species $0 \times 5 = 0$			
				Column Totals: 130 (A) 330	(B)		
					\		
				Prevalence Index = B/A = 2.53  Hydrophytic Vegetation Indicators:			
				1 - Rapid Test for Hydrophytic Vegetation			
<u> </u>				2 - Dominance Test is >50%			
				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
_	0	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide s	unnortin		
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate shee			
lerb Stratum (Plot size:5				Problematic Hydrophytic Vegetation¹ (Exp	,		
Carex blanda	70	Yes	FAC	Problematic Hydrophytic Vegetation (Exp	лапт		
Juncus effusus	30	Yes	FACW	<sup>1</sup> Indicators of bydria soil and wotland bydralog	v must		
	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.			
Eleocharis obtusa	10	No	OBL	Definitions of Four Vegetation Strata:			
Woodwardia areolata	5	No	FACW				
Poa palustris	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless			
				height.			
				Sapling/Shrub – Woody plants, excluding vin	مد امدد		
				than 3 in. DBH and greater than or equal to 3.			
0				m) tall.			
1				Herb – All herbaceous (non-woody) plants, re	gardless		
		= Total Cove		of size, and woody plants less than 3.28 ft tall.			
50% of total cover: 65	20% of	total cover:_	26	Woody vine – All woody vines greater than 3.	28 ft in		
Voody Vine Stratum (Plot size:30)				height.	2011111		
·							
·							
				Hydrophytic			
				Vegetation			
	0	= Total Cove	r	Present? Yes No	_		
50% of total cover: 0	20% of	total cover:_	0				
emarks: (Include photo numbers here or on a separate s	heet.)						
	,						

Profile Desc	ription: (Describe t	o the dep	oth needed to docun	nent the i	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	K Feature:	S1	. 2		
(inches) 0-3	Color (moist) 10YR 3/2	<u>%</u> 95	Color (moist) 7.5YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SICL	Remarks
3-16	2.5Y 4/2	85	7.5YR 3/4	15	C	PL/M	SIC	
					-			
						·		-
					-		-	
					-			· ·
		etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	eators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat	. ,	-c)		,	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(Δ11)	Redox Dark S Depleted Dar					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	(7(1)	Redox Depre				_ `	other (Explain in Remarks)
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane			LRR N,		
	\ 147, 148)	,	MLRA 136		( ) ,	,		
	Bleyed Matrix (S4)		Umbric Surfa		(MLRA 13	36, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> w	etland hydrology must be present,
	Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> ur	nless disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:								_
Depth (inc	ches):						Hydric Soi	l Present? Yes No
Remarks:								



Photo 1 Wetland data point wrae200e\_w facing south



Photo 2
Wetland data point wrae200e\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County:	Sampling Date: 3/31/2016		
	<del></del> - , .	State: WV Sampling Point: wrae200_u		
00.011	Section, Township, Ran			
Landform (hillslope, terrace, etc.): slope				
Subregion (LRR or MLRA): Lat:				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology	• •			
SUMMARY OF FINDINGS – Attach site map	snowing sampling point lo	cations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes 1	No Is the Sampled	Area		
Hydric Soil Present? Yes 1	within a Wetland			
Wetland Hydrology Present? Yes 1				
HADBOLOGA				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all	that apply)	Surface Soil Cracks (B6)		
	ie Aquatic Plants (B14)	Surface Soil Clacks (B6) Sparsely Vegetated Concave Surface (B8)		
	drogen Sulfide Odor (C1)	Sparsely vegetated Concave Surface (B8) Drainage Patterns (B10)		
1	idized Rhizospheres on Living Roots	-		
	esence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
	cent Iron Reduction in Tilled Soils (C			
Drift Deposits (B3) Thi	n Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Oth	ner (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 _ ✓ De	enth (inches):			
Water Table Present? Yes No De				
Saturation Present? Yes No De		tland Hydrology Present? Yes No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well,	aeriai priotos, previous inspections)	, ii avaliable.		
Demodes				
Remarks:				

Sampling	Point: wrae200_	_u
Sampling	Point: Wide200-	_u

•	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC:1 (A)
2. Fagus grandifolia	15	Yes	FACU	
3 Betula alleghaniensis	5	No	FAC	Total Number of Dominant Species Agrees All Strate: 4 (B)
				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25 (A/B)
6				Bassalanas la descuente hast
7				Prevalence Index worksheet:
	40	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 20		total cover:_	8	OBL species
Sapling/Shrub Stratum (Plot size: 15 )		_		FACW species0 x 2 =0
1 Fagus grandifolia	35	Yes	FACU	FAC species 25 x 3 = 75
·		No	FACU	FACU species 55 x 4 = 220
2. Betula lenta		INO	FACU	15 75
3				UPL species X 5 =
4				Column Totals:95 (A)(B)
5				Prevalence Index - R/A - 3.89
				1 Tevalence mack = B/A =
6		<del></del>		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	40	= Total Cove	r	
50% of total cover: 20	20% of	total cover:	8	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
1 Erythronium rostratum	15	Yes	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1		100		
2		-		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				John Mondo of Four Pogotation Official
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.				Herb – All herbaceous (non-woody) plants, regardless
	15	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7.5		total cover:_	_	
Woody Vine Stratum (Plot size: 30 )				Woody vine – All woody vines greater than 3.28 ft in
(1 lot 3i26.				height.
1				
2				
3				
4				The beautiful Co
5.				Hydrophytic Vegetation
<u> </u>	0	Total Cover		Present? Yes No
50% of total cover: 0		= Total Cover total cover:	^	
0070 01 total 00701:		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

	scription: (Describe	,						,
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature:	s _Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/1	97	7.5YR 3/4	3	C	PL	CL	- INGITIAINS
	<u> </u>					· —		
2-8	10YR 5/6	100					CL	-
8-16	10YR 6/6	100					CL	
	-				-			
		_			-	·		
						· ——		
		pletion, RM	1=Reduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	I Indicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Dark Surface	(S7)			2	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic E	Epipedon (A2)		Polyvalue Bel				148) (	Coast Prairie Redox (A16)
Black H	Histic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	147, 148)		(MLRA 147, 148)
Hydrog	gen Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		F	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat					(MLRA 136, 147)
2 cm M	luck (A10) (LRR N)		Redox Dark S					Very Shallow Dark Surface (TF12)
	ed Below Dark Surfa	ce (A11)	Depleted Dar				(	Other (Explain in Remarks)
	Dark Surface (A12)		Redox Depre					
	Mucky Mineral (S1)	(LRR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,		
	RA 147, 148)		MLRA 136	•			2.	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	ed Matrix (S6)		Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	) ur	nless disturbed or problematic.
Restrictive	Layer (if observed	):						
Type:								
Depth (ii	nches):						Hydric Soi	I Present? Yes No
Remarks:								



Photo 1
Upland data point wrae200\_u facing south



Photo 2
Upland data point wrae200\_u facing north

Project/Site: Atlantic Coast Pipe	eline	City/0	County: Randolph County	у	Sampling Date: 7/11/2016		
Applicant/Owner: Dominion		State: WV Sampling Point: wrae280e_v					
Investigator(s): CG, JM		Secti	ion, Township, Range: No	PLSS in this area	a		
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): N		Lat: 38.60465856	Long: -80.	16599318	Datum: WGS 1984		
Soil Map Unit Name: Udorthents	s, mudstone and	I shale, low base		NWI classific	cation: PEM		
Are climatic / hydrologic condition	ons on the site ty	pical for this time of year?	Yes No	(If no, explain in R	Remarks.)		
Are Vegetation, Soil	, or Hydrolog	gy significantly distu	rbed? Are "Norma	l Circumstances"	oresent? Yes No		
Are Vegetation, Soil							
					s, important features, etc.		
Hydrophytic Vegetation Preser	nt? Yes	<b>✓</b> No					
Hydric Soil Present?	Yes	✓ No	Is the Sampled Area within a Wetland?	Vos V	No		
Wetland Hydrology Present?		<b>✓</b> No	within a wetiant:	163	NO		
HYDROLOGY							
Wetland Hydrology Indicator					ators (minimum of two required)		
Primary Indicators (minimum o	<u>f one is required</u>		(5.4.1)	Surface Soil			
Surface Water (A1)		True Aquatic Plants			getated Concave Surface (B8)		
<ul><li>✓ High Water Table (A2)</li><li>✓ Saturation (A3)</li></ul>		Hydrogen Sulfide Oo Oxidized Rhizosphe		✓ Drainage Pa _ Moss Trim L			
Water Marks (B1)		Presence of Reduce			Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur			
Drift Deposits (B3)		Thin Muck Surface (		-	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Re			tressed Plants (D1)		
Iron Deposits (B5)				✓ Geomorphic	Position (D2)		
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aqu	itard (D3)		
Water-Stained Leaves (B9	3)				aphic Relief (D4)		
Aquatic Fauna (B13)				✓ FAC-Neutra	Test (D5)		
Field Observations:	<b>.</b>	<b>5</b> (1	1				
Surface Water Present?		Depth (inches):	0				
Water Table Present?		Depth (inches):		h.d	-10 V V N-		
Saturation Present? (includes capillary fringe)	Yes _ • No	Depth (inches):	wetland i	Hydrology Presei	nt? Yes V No		
Describe Recorded Data (stream	am gauge, monit	oring well, aerial photos, pro	evious inspections), if ava	ailable:			
Remarks:							
Nemarks.							

EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: wrae280e_w
	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:30) 1. none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:6 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 7 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 85.71428571 (A/B)
6.				That Are OBL, FACW, or FAC (A/B)
7				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species30 x 1 =30
Sapling/Shrub Stratum (Plot size: 15 )	2070 01			FACW species 40
1 none	0			FAC species 25 x 3 = 75
	-			FACU species 10 x 4 = 40
				UPL species0 x 5 =0
3				Column Totals: 105 (A) 225 (B)
4				(b)
5				Prevalence Index = B/A =2.14
6				Hydrophytic Vegetation Indicators:
7	-			1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				·
1. Scirpus atrovirens	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Phalaris arundinacea	20	Yes	FACW	
3. Juncus effusus	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Onoclea sensibilis	10	Yes	FACW	Definitions of Four Vegetation Strata:
5. Dichanthelium clandestinum	10	Yes	FAC	Definitions of Four Vegetation Strata.
6. Spiraea japonica	10	Yes	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Solidago rugosa	10	Yes	FAC	more in diameter at breast height (DBH), regardless of height.
8. Juncus tenuis	5	No	FAC	noight.
9. Typha X glauca	5	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
10				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11	105			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 52.5		= Total Cover:		of size, and woody plants less than 3.28 ft tall.
20	20 /6 01	lotal cover.		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)  1. none	0			height.
_				
2				
3				
4				Hydrophytic
5		· ——		Vegetation
		= Total Cove		Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			,

Profile Desc	ription: (Describe to	o the dep	oth needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	x Feature:	S1	. 3		_
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-6	10YR 4/1	80	10YR 5/6	20	C	M	SCL	
					-			
·				-	-			-
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		-						ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147.		coast Prairie Redox (A16)
Black Hi			Thin Dark Su				. —	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye				P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		✓ Depleted Mat					(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	<del>-</del> 6)		V	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		0	ther (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(Ll</b>	RR N,	Iron-Mangane	ese Mass	es (F12) <b>(</b>	LRR N,		
	\ 147, 148)		MLRA 130	•			_	
-	Sleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
-	tedox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturbed or problematic.
Restrictive I	ayer (if observed):							
Type: Co	mpressed soil							
Depth (inc	ches): <u>6</u>						Hydric Soil	Present? Yes No
Remarks:								
Auger refusal	at 6 inches.							
g								



Wetland data point wrae280e\_w facing north



Wetland data point wrae280e\_w facing west

Project/Site: Atlantic Coast Pipeline			City/	County: Randolph Count	ty	Sampling Date: 7/11/2016	
Applicant/Owner: Dominion		State: WV Sampling Point: wrae280_u					
				tion, Township, Range: N			
Landform (hillslope, terrace, etc.): Road						Slope (%):2	
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Udorthents, mudston	e and shale,	, low base	)	Long	NWI classifi	cation: UPL	
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or Hy	drology 🗸	, signifi	icantly distu	urbed? Are "Norma	al Circumstances"	present? Yes No	
Are Vegetation, Soil, or Hy							
SUMMARY OF FINDINGS – Atta							
Hydrophytic Vegetation Present?	Yes	No	<u> </u>				
	Yes		<u> </u>	Is the Sampled Area	Vaa	No 🗸	
Wetland Hydrology Present?	Yes		~	within a Wetland?	Yes	NO	
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:					Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is red	auired: checl	k all that a	(ylage		Surface Soi		
Surface Water (A1)			atic Plants	(B14)		egetated Concave Surface (B8)	
High Water Table (A2)			n Sulfide O		Drainage Patterns (B10)		
Saturation (A3)				eres on Living Roots (C3)			
Water Marks (B1)				ed Iron (C4)		Water Table (C2)	
Sediment Deposits (B2)				ion in Tilled Soils (C6)	Crayfish Bu		
Drift Deposits (B3)			ck Surface (		-	/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)			xplain in Re			Stressed Plants (D1)	
Iron Deposits (B5)	· <u></u>	`	•	,		Position (D2)	
Inundation Visible on Aerial Imagery	(B7)				Shallow Aqu		
Water-Stained Leaves (B9)	` ,					raphic Relief (D4)	
Aquatic Fauna (B13)					FAC-Neutra		
Field Observations:							
Surface Water Present? Yes	No	Depth (i	nches):				
Water Table Present? Yes	_ No _ 🗸	Depth (i	nches):				
	_ No				Hydrology Prese	nt? Yes No	
Describe Recorded Data (stream gauge,	monitoring v	well, aeria	l photos, pr	revious inspections), if av	ailable:		
Remarks:							
no hydrology, gravel road							

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

Sampling Point: wrae280\_u

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:30) 1. none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2				
3				Total Number of Dominant Species Across All Strata:  0 (B)
				Species Across Air Strata.
4				Percent of Dominant Species That Are OBL FACW or FAC:  0 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove		OBL species x 1 =
4.5	20% 01	lotal cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 )	0			FAC species x 3 =
·-				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
		= Total Cove	r	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:0	20% of	total cover:_	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. none	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5				Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11	0			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 0		= Total Cove	•	of size, and woody plants less than 3.28 ft tall.
30 /0 of total cover.	20% of	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)  1. none	0			height.
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cove	^	Present? Yes No
50% of total cover:0	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			
Gravel road				

Sampling Point: wrae280\_u

	ription: (Describe t	o the depth				or confirm	the absen	ce of indicat	tors.)		
Depth	Matrix		Redo	x Features	S _ 1	. 2			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remar	KS	
			-								
		·									
1							2				
	ncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lir			3
Hydric Soil I	ndicators:						Ind	licators for F	Problematic	: Hydric So	oils":
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)	
Histic Ep	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairi	ie Redox (A	16)	
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	F2)			Piedmont F	loodplain Sc	oils (F19)	
	Layers (A5)		Depleted Ma	rix (F3)				(MLRA 1	36, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallo	w Dark Surf	ace (TF12)	)
Depleted	Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Expl	ain in Rema	rks)	
Thick Da	rk Surface (A12)		Redox Depre	ssions (F	3)						
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,					
	147, 148)		MLRA 13		. , ,						
	leyed Matrix (S4)		Umbric Surfa	-	MLRA 13	6, 122)	3	Indicators of I	hydrophytic	vegetation	and
	edox (S5)	•	Piedmont Flo					wetland hydr		-	
	Matrix (S6)	•	Red Parent N					unless distur			
	ayer (if observed):				, (		<u>′</u>				
Type:			_				l <sub>-</sub>		.,		~
Depth (inc	hes):		_				Hydric S	oil Present?	Yes	No_	<u> </u>
Remarks:											
gravel road											



Upland data point wrae280\_u facing north



Upland data point wrae280\_u facing south

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 4/19/2016
Applicant/Owner: DOMINION				State: WV	Sampling Point: wrac108e_w
			on, Township, Range: No		
Landform (hillslope, terrace, etc.): Di					
Subregion (LRR or MLRA): N		. 38.60462441	Long: -80.	17157229	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb s	tony complex, mo	oist, 15 to 35 percent s	slopes	NWI classif	ication: None
Are climatic / hydrologic conditions o	n the site typical f	or this time of year?	′es No	(If no, explain in	Remarks.)
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	l Circumstances"	present? Yes No
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?	Yes 🔽	No	Is the Sampled Area	Vac V	No
Wetland Hydrology Present?		No	within a Wetland?	res	NO
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one	is required; chec	k all that apply)		Surface Soi	l Cracks (B6)
Surface Water (A1)	<u></u>	True Aquatic Plants	(B14)	Sparsely Ve	egetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Od	lor (C1)	✓ Drainage P.	atterns (B10)
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim	Lines (B16)
Water Marks (B1)		Presence of Reduce		Dry-Seasor	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (0			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	marks)		Stressed Plants (D1)
Iron Deposits (B5)	(DZ)				c Position (D2)
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aq	
Water-Stained Leaves (B9) Aquatic Fauna (B13)				✓ FAC-Neutra	raphic Relief (D4)
Field Observations:				FAC-Neutra	11 1651 (D3)
	No V	_ Depth (inches):			
		_ Depth (inches):	0		
		Depth (inches):	0 Wetland b	Hydrology Prese	nt? Yes ✔ No
(includes capillary fringe)	NO	_ Deptil (inches)	welland r	nyarology Frese	int: res NO
Describe Recorded Data (stream ga	auge, monitoring	well, aerial photos, pre	evious inspections), if ava	ilable:	
Devente					
Remarks: Wetland hydrology indicators preser	nt.				
Wettand Hydrology indicators preser	ıt				

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	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30 )	% Cover	Species?		Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
		· ·	· · · · · · · · · · · · · · · · · · ·	
				Total Number of Dominant Species Across All Strata: 2 (B)
	_			Species Across Air Strata. (B)
	_	·		Percent of Dominant Species
•	-			That Are OBL, FACW, or FAC: (A/E
				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species
apling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
				FAC species $\frac{15}{}$ x 3 = $\frac{45}{}$
				FACU species0 x 4 =0
				UPL species0 x 5 =0
	_	·		Column Totals: 50 (A) 115 (B
	-			(1)()
	-			Prevalence Index = B/A = 2.3
				Hydrophytic Vegetation Indicators:
	_			1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
		· ·	· · · · · · · · · · · · · · · · · · ·	
	0	= Total Cov		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		total cover:	^	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )	2070 01	total oovoi.		data in Remarks or on a separate sheet)
Viola cucullata	30	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
•	15	Yes	FAC	
Athyrium angustum				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Carex grayi	5	No_	FACW	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
·	_			
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
				more in diameter at breast height (DBH), regardless of height.
				g
•	_			Sapling/Shrub – Woody plants, excluding vines, less
•	-			than 3 in. DBH and greater than or equal to 3.28 ft (1
0	-			m) tall.
1		· <del></del>		Herb - All herbaceous (non-woody) plants, regardless
		= Total Cov		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
Voody Vine Stratum (Plot size:30)				height.
•				
		· ·	· · · · · · · · · · · · · · · · · · ·	
		· ——		Hydrophytic
				Vegetation Present? Yes No
0		= Total Cov	_	resent: res No
50% of total cover:0	20% of	total cover:		
emarks: (Include photo numbers here or on a separate	sheet.)	-		

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the ir	ndicator	or confirm	the abs	ence of indicators.)
Depth	Matrix		<u>Re</u> do	x Features	<u>.                                    </u>			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	
0-18	10 YR 4/1	95 ´	10 YR 5/8	5	С	PL/M	SL	
							-	
	-							
	-							
1 <sub>Type:</sub> C-C	oncontration D-Donle	ation DM_E	Poducod Motrix MS		Sand Cr		<sup>2</sup> L contin	on: DI —Doro Lining M—Matrix
Hydric Soil	oncentration, D=Deple	elion, Rivi=r	Reduced Mairix, Mi	s=iviaskeu	Sand Gra	airis.		on: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
-			Dowle Confood	(07)				-
Histosol	oipedon (A2)		Dark Surface		- (CO) <b>/N</b>	II D A 447	140\	2 cm Muck (A10) (MLRA 147)
			Polyvalue Be				148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		-2)		-	Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		<u>✓</u> Depleted Ma		C)			(MLRA 136, 147)
	d Below Dark Surface	(111)	Redox Dark : Depleted Dark :				-	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre				-	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			RR N		
	A 147, 148)	, , , , , , , , , , , , , , , , , , ,	MLRA 13		,5 (i 12) <b>(</b> i			
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				8)	wetland hydrology must be present,
	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):				, ,		Í	
Type:	, ,							
	ches):						Hydric	Soil Present? Yes No
Remarks:	onos).		<del></del>				Hydric	, doi: 1 tesent: 1 tes 140
	licatora procent							
nyunc son me	dicators present							



**Photo 1**Wetland data point WRAC108e\_w facing northeast



Photo 2
Wetland data point WRAC108e\_w facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: Randolph	County	Sampling Date: 4/19/2016	
Applicant/Owner: DOMINION		State: WV	Sampling Point: wrac108_u	
	Section, Township, Rai			
Landform (hillslope, terrace, etc.): Hill slope				
Subregion (LRR or MLRA): N				
Soil Map Unit Name: Gilpin-Dekalb stony complex	, moist, 15 to 35 percent slopes	NWI classifi	cation: None	
Are climatic / hydrologic conditions on the site typic				
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "	'Normal Circumstances"	present? Yes No	
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach site				
Hydrophytic Vegetation Present? Yes	No Is the Sampled			
	No 4/		🗸	
	No v within a Wetlar	1d? Yes	No	
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			ators (minimum of two required)	
Primary Indicators (minimum of one is required; of		Surface Soi		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	-	atterns (B10)	
Saturation (A3)	Oxidized Rhizospheres on Living Root			
Water Marks (B1)	Presence of Reduced Iron (C4)	-	Water Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C	· ·		
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)		/isible on Aerial Imagery (C9) Stressed Plants (D1)	
Algai Mat of Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)		c Position (D2)	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu		
Water-Stained Leaves (B9)			aphic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutra		
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No		etland Hydrology Prese	nt? Yes No	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous inspections	), if available:		
Remarks:				
No wetland hydrology indicators present				

Sampling Point: wrac108\_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 20	Species?	Status	Number of Dominant Species
1. Quercus rubra		Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Tsuga canadensis	20	Yes	FACU	Total Number of Dominant
3. Acer rubrum	20	Yes	FAC	Species Across All Strata: 4 (B)
4. Betula alleghaniensis	20	Yes	FAC	
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  50 (A/B)
6				That Are OBE, FACW, OF FAC.
7				Prevalence Index worksheet:
r	80	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 40		total cover:_	16	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )	20 /0 01	total cover		FACW species 0 x 2 = 0
`				FAC species 40 x 3 = 120
1				FACU species 40 x 4 = 160
2				UPL species
3				80 280
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.5
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
<u> </u>	0 .	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0		total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5 )	2070 01	total oover		data in Remarks or on a separate sheet)
//				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1				
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree Meady plants avaluation visco 2 in (7.6 am) an
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or 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
10				m) tall.
11.				
	0	Total Cava		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:		<ul><li>Total Cove total cover:</li></ul>	_	of size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 30 )	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
(1 lot 3i26.				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features		_	
nches)	Color (moist)	%	Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-18	10 YR 4/4	100			SL	
					-	-
			<del></del>			
					-	
			<del></del>			
T C. C.			- dues d Matrice MC Mastered	Cond Cosins	21	D. Dans Lining M. Matrix
		etion, RM=Re	educed Matrix, MS=Masked	Sand Grains.		PL=Pore Lining, M=Matrix.
-	Indicators:					cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Below Surface		, 148) (	Coast Prairie Redox (A16)
Black Hi			Thin Dark Surface (S9)			(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (	=2)	!	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)
	ıck (A10) (LRR N)		Redox Dark Surface (F	•		Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dark Surface	, ,	'	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8			
	lucky Mineral (S1) (LI	RR N,	Iron-Manganese Masse	es (F12) <b>(LRR N,</b>		
	A 147, 148)		MLRA 136)		3	
	Sleyed Matrix (S4)		Umbric Surface (F13) (			dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain S			etland hydrology must be present,
	Matrix (S6)		Red Parent Material (F.	21) <b>(MLRA 127, 14</b>	<b>7)</b> ui	nless disturbed or problematic.
Restrictive I	Layer (if observed):					
Type:						
	ches):				Hydric Soi	il Present? Yes No
Depth (inc	ches):		_ _		Hydric Soi	I Present? Yes No
Depth (inc			_		Hydric Soi	il Present? Yes No
Depth (inc	indicators present		_		Hydric Soi	il Present? Yes No
Depth (inc			_		Hydric Soi	il Present? Yes No
Depth (ind			_		Hydric Soi	il Present? Yes No
Depth (inc			_		Hydric Soi	il Present? Yes No
Depth (inc			_		Hydric Soi	il Present? Yes No
Depth (inc			_		Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (ind					Hydric Soi	il Present? Yes No
Depth (ind			<del>-</del>		Hydric Soi	il Present? Yes No
Depth (ind			<del>-</del>		Hydric Soi	il Present? Yes No
Depth (ind					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (ind					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (ind					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	il Present? Yes No
Depth (inc					Hydric Soi	Il Present? Yes No
Depth (ind					Hydric Soi	Il Present? Yes No



Photo 1 Upland data point WRAC108\_u facing west



Photo 2 Upland data point WRAC108\_u facing north

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	1	Sampling Date: 4/1/2016		
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae201e_w		
Investigator(s): CG, SH			on, Township, Range: No				
Landform (hillslope, terrace, etc.): Depre							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Cookport variant s	ilt loam, 3 to 8	percent slopes		NWI classif	ication: None		
Are climatic / hydrologic conditions on th	e site typical fo	or this time of year? Y	′es No	(If no, explain in	Remarks.)		
Are Vegetation, Soil, or I	-lydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No		
Are Vegetation, Soil, or I							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Yes 🗸	_ No					
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?		No	within a Wetland?	res	NO		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary India	eators (minimum of two required)		
Primary Indicators (minimum of one is	roquirod: chocl	call that apply)		Surface Soil	·		
Surface Water (A1)		True Aquatic Plants (					
✓ High Water Table (A2)		Hydrogen Sulfide Od		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
Saturation (A3)							
Water Marks (B1)		Presence of Reduced	=		Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	` '	Crayfish Bu			
Drift Deposits (B3)		Thin Muck Surface (0		-	/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or	Stressed Plants (D1)		
Iron Deposits (B5)				<u>✓</u> Geomorphi	c Position (D2)		
Inundation Visible on Aerial Image	ry (B7)			Shallow Aq	uitard (D3)		
Water-Stained Leaves (B9)					raphic Relief (D4)		
Aquatic Fauna (B13)				✓ FAC-Neutra	al Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):	4				
	<u>/ No</u>	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes V No		
(includes capillary fringe)  Describe Recorded Data (stream gaug	e, monitoring v	vell, aerial photos, pre	l evious inspections), if ava	ilable:			
Remarks:							

#### ٧

O (D	Absolute	Dominant I	ndicator	Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 66.6666666 (A/E
				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:_	0	OBL species
apiing/Snrub Stratum (Piot size:)	10	Voc	FAC	racw species x z =
Betula alleghaniensis	10	Yes_	FAC	FAC species $\begin{array}{ccc} & 10 & \text{x 3} = & 30 \\ & & \text{FACU species} & 0 & \text{x 4} = & 0 \\ \end{array}$
·				UPL species 0 x 5 = 0
-				Column Totals: 90 (A) 130 (B)
				Prevalence Index = B/A =1.44
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
				✓ 3 - Prevalence Index is ≤3.0¹
		= Total Cove	r 2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:5	20% of	total cover:_		data in Remarks or on a separate sheet)
lerb Stratum (Plot size:) Scirpus atrovirens	60	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Sphagnum sp.	20	Yes		
Juncus effusus	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woodwardia areolata	10	No	FACW	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of 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
0				m) tall.
1	80	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:50		total cover:_		
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
Voody Vine Stratum (Plot size:)				
yoody vine Stratum (i lot size)				g.m
				Total and the second
				<u> </u>
				Hydrophytic Vegetation
	0	= Total Cove	_	Hydrophytic

Profile Desc	ription: (Describe to	o the de	oth needed to docum	nent the in	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Features	S			_
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	10YR 4/1	90	10YR 4/6	10	C	PL	L	
4-7	10YR 5/1	85	10YR 4/6	15	С	PL/M	CL	
					-			
					-			
		etion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil I								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		. , .		<b>148)</b> C	coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	,	<del>-</del> 2)		P	iedmont Floodplain Soils (F19)
	Layers (A5)		<u>✓</u> Depleted Mat	, ,	-\			(MLRA 136, 147)
	ck (A10) (LRR N)	(111)	Redox Dark S	•	,			ery Shallow Dark Surface (TF12)
	l Below Dark Surface irk Surface (A12)	(A11)	Depleted Dar Redox Depre					other (Explain in Remarks)
	lucky Mineral (S1) <b>(Ll</b>	DD N	Iron-Mangane			IDDN		
	147, 148)	NN IN,	MLRA 136		55 (F12) <b>(</b>	LKK N,		
	leyed Matrix (S4)		Umbric Surfa		MIRA 13	16 122)	3Ind	icators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	ayer (if observed):			(, ,	/ (		,	
Type: Ro	ck							
Depth (inc							Hydric Soil	Present? Yes V No No
							Tiyane oon	Tresent: res No
Remarks:								



Photo 1
Wetland data point wrae201e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/0	County: Randolph County	/	Sampling Date: 4/1/2016	
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae201_u	
			on, Township, Range: No			
Landform (hillslope, terrace, etc.): Terr	ace	Local re	lief (concave, convex, nor	ne); convex	Slope (%); 3	
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Cookport variant	silt loam, 3 to 8	percent slopes	Long	NWI classific	cation: None	
Are climatic / hydrologic conditions on	the site typical for	or this time of year?	res No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or	Hydrology	significantly distu	rbed? Are "Normal	Circumstances" p	present? Yes No	
Are Vegetation, Soil, or						
SUMMARY OF FINDINGS – A						
Hydrophytic Vegetation Present?	Yes					
Hydric Soil Present?		No 🗸	Is the Sampled Area within a Wetland?	Vos	No 🗸	
Wetland Hydrology Present?	Yes	No 🗸	within a wettand?	res	NO	
HADBOLOCA						
HYDROLOGY				Cocondon India	stara (minimum of two required)	
Wetland Hydrology Indicators:	o roquirod: obos	uk all that apply)			ators (minimum of two required)	
Primary Indicators (minimum of one is	-		(D14)	Surface Soil		
Surface Water (A1) High Water Table (A2)		True Aquatic Plants of Hydrogen Sulfide Od		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>		
Saturation (A3)				Moss Trim Li		
Water Marks (B1)		Presence of Reduce			Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur		
Drift Deposits (B3)		Thin Muck Surface (	C7)	Saturation Vi	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)					Position (D2)	
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):				
		_ Depth (inches):				
		_ Depth (inches):		lydrology Preser	nt? Yes No	
(includes capillary fringe)	-	. , , , , ,			it: 165NO	
Describe Recorded Data (stream gau	ge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:		
Remarks:						
No hydrology indicators						

Sampling Point: wrae201\_u

, ,	Absolute	Dominant Ir	disstar	Deminance Test weeksheet:
Tree Stratum (Plot size:)			Status	Dominance Test worksheet:
1. Acer saccharum	25	Yes	FACU	Number of Dominant Species That Are OBL FACW or FAC:  4 (A)
···	25	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Acer rubrum				Total Number of Dominant
3. Betula alleghaniensis	15	Yes	FAC	Species Across All Strata: 8 (B)
4. Fagus grandifolia	5	No	FACU	
5	-			Percent of Dominant Species That Are OBL FACW or FAC: 50 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
	70	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 35	20% of	total cover:	14	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species
1 Fagus grandifolia	20	Yes	FACU	FAC species 60 x 3 = 180
2. Acer pensylvanicum	10	Yes	FACU	FACU species 65 x 4 = 260
3. Acer saccharum	5	No	FACU	UPL species 5 x 5 = 25 465 (B)
4				Column Totals: (A) (B)
5				0.57
				Prevalence Index = B/A =3.57
6				Hydrophytic Vegetation Indicators:
7	-			1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	35	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:17.5		total cover:	7	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
E	20% 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5	4.0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Rubus arvensis	10	Yes	FAC	1 Tobicinatio Trydrophytic Vegetation (Explain)
2. Athyrium angustum	10	Yes	FAC	
3. Erythronium rostratum	5	Yes	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5	-			Tana Mandaglada wakati wakati wa (70 aw) an
6				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.				Herb – All herbaceous (non-woody) plants, regardless
	25	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 12.5		total cover:		of size, and woody plants loss than 6.25 it tail.
0070 01 total 00101.	20 /6 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cover		Present? Yes No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s		_		
Tremarks: (moldae photo hambers here of on a separate s	ncci.)			

Sampling Point: wrae201\_u

Depth	Matrix		Redox Features	<del>-</del> -	
inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Loc		Remarks
0-4	10YR 3/2	100		SCL	
4-14	10YR 5/6	100		SICL	
			· · · · · · · · · · · · · · · · · · ·		
		- — —	<del></del>		
	-				<u> </u>
	-		<del></del> ,,,,		<u> </u>
Vne: C-C	oncentration D-Der	Netion PM-P	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> l ocation: [	PL=Pore Lining, M=Matrix.
	Indicators:	detion, itivi–ite	succed Matrix, MIS-Masked Sarid Grains.		cators for Problematic Hydric Soils <sup>3</sup> :
			Dark Surface (S7)		2 cm Muck (A10) <b>(MLRA 147)</b>
_ Histoso			Dark Surface (S7)		, , ,
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 1		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 147, 148)
	en Sulfide (A4)		<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>	'	Piedmont Floodplain Soils (F19)
	d Layers (A5)			,	(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	uck (A10) <b>(LRR N)</b>	ο (Λ11)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>		Other (Explain in Remarks)
	d Below Dark Surfact ark Surface (A12)	e (ATT)	Redox Depressions (F8)		Other (Explain in Remarks)
	Mucky Mineral (S1) (	I DD N	Iron-Manganese Masses (F12) (LRR N	ı	
	Mucky Milleral (31) ( A 147, 148)	LKK N,	MLRA 136)	,	
			•	3100	diagtors of budrophytic vegetation and
	Gleyed Matrix (S4) Redox (S5)		Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA		dicators of hydrophytic vegetation and retland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 127,		nless disturbed or problematic.
	Layer (if observed)	-	Red Falent Material (F21) (MERA 121,	147) ui	niess disturbed of problematic.
	Layer (ii observeu)	•			
Type:			_		
Depth (in	iches):		<del>-</del>	Hydric So	il Present? Yes No
emarks:					



Photo 1 Upland data point wrae201\_u facing east

Project/Site: Atlantic Coast Pipeline	<b>;</b>	City/C	County: Randolph County	/	Sampling Date: 4/2/2016		
Applicant/Owner: Dominion			State: WV	Sampling Point: wrae202e_w			
Investigator(s): CG, SH			on, Township, Range: No				
Landform (hillslope, terrace, etc.):							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Cookport varia	ant silt loam, 3 to 8	percent slopes	Long.	NWI classifi	cation: None		
Are climatic / hydrologic conditions	on the site typical f	or this time of year? \	/es No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No		
Are Vegetation, Soil							
SUMMARY OF FINDINGS							
Hydrophytic Vegetation Present?	Yes						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?		No	within a Wetland?	res	NO		
Remarks:							
HYDROLOGY							
				Cocondon/India	atora (minimum of two required)		
Wetland Hydrology Indicators:	a io roquirod, choc	de all that apply			ators (minimum of two required)		
Primary Indicators (minimum of or	•		(D4.4)	Surface Soi			
Surface Water (A1) ✓ High Water Table (A2)		True Aquatic Plants ( Hydrogen Sulfide Od			egetated Concave Surface (B8)		
Saturation (A3)				Drainage Patterns (B10) C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)		Presence of Reduce					
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu			
Drift Deposits (B3)		Thin Muck Surface (		-	/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rei			Stressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Aerial In	nagery (B7)			Shallow Aqu	uitard (D3)		
Water-Stained Leaves (B9)				Microtopographic Re			
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)		
Field Observations:							
	es No 🔽		40				
	es <u> </u>	_ Depth (inches):	12				
	es 🖊 No	Depth (inches):	0 Wetland F	lydrology Prese	nt? Yes No		
(includes capillary fringe)  Describe Recorded Data (stream of the control of the	gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ilable:			
Surface water present in ruts			, ,,				
Remarks:							

		Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 )		Species?		
\ 1.					Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2					
3					Total Number of Dominant Species Across All Strata:  4 (B)
4					Opecies Across Air Girata.
_					Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
o					That Are OBL, FACW, or FAC: (A/B)
5		-	<del></del>		Prevalence Index worksheet:
7		0	T-1-1-0		Total % Cover of: Multiply by:
	50% of total cover: 0		= Total Cover total cover:	0	OBL species 90 x 1 = 90
Sanling/Shrub Stratum (Plot siz	15	20 /6 01	total cover		FACW species0
<u>Sapling/Shrub Stratum</u> (Plot siz <sub>1</sub> <i>Rubus arvensis</i>	ze)	5	Yes	FAC	FAC species 5 x 3 = 15
-					FACU species0
<u>2.</u>					UPL species 0 x 5 = 0
3		_			Column Totals: 95 (A) 105 (B)
4					Column Totals (A) (B)
5					Prevalence Index = B/A =1.1
ô					Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
3					✓ 2 - Dominance Test is >50%
9					✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
			= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	50% of total cover: 2.5	5 20% of	total cover:	1	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	)				
1. Scirpus atrovirens		35	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex prasina		30	Yes	OBL	1
<sub>3.</sub> Persicaria sagittata		25	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4.					Definitions of Four Vegetation Strata:
 5.					Definitions of Four Vegetation Strata.
6.					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
					more in diameter at breast height (DBH), regardless of height.
_					neight.
					Sapling/Shrub – Woody plants, excluding vines, less
9. <u> </u>		-	<del></del>		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
					m) tan.
11		90			Herb – All herbaceous (non-woody) plants, regardless
	50% of total cover: 45	. ——	= Total Cover	18	of size, and woody plants less than 3.28 ft tall.
W 1 N/ O ( ) (D) ( )	20	20% 01	total cover:		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size	:)				height.
1					
2					
3					
4		_			Hydrophytic
5					Vegetation
			= Total Cover		Present? Yes No
	50% of total cover:0	20% of	total cover:	0	
5. Remarks: (Include photo numb	50% of total cover: 0	0 20% of		0	

Depth	Matrix			ox Features	; 1	. 2	<b>-</b> .	<b>5</b>
(inches) 0-8	Color (moist) 10YR 4/1	<u>%</u> 90	Color (moist) 10YR 4/6		Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	<u>Texture</u> CL	Remarks
8-16	2.5Y 5/2	95	10YR 4/6	5	С	PL/M	C	
				<del></del>				
	•		-					
		_		<del></del>		<del></del>		
		_						
		_				-		
-	-	_		<del></del>	-	<del></del>		
						<del></del>		
ype: C=C	oncentration, D=Dep	oletion, RM	I=Reduced Matrix, M	1S=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
	Indicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	(A1)		Dark Surfac	e (S7)			2	cm Muck (A10) (MLRA 147)
_ Histic E <sub>l</sub>	pipedon (A2)		Polyvalue B		e (S8) <b>(l</b>	MLRA 147,	<b>148)</b> C	Coast Prairie Redox (A16)
_ Black H	istic (A3)		Thin Dark S	surface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley	,	<del>-</del> 2)		P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Market					(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	•	,			/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da		. ,		_ c	Other (Explain in Remarks)
	ark Surface (A12)	LDDN	Redox Depi			U DD N		
	Mucky Mineral (S1) (	LRR N,	Iron-Manga		es (F12) (	LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 1: Umbric Surf	•	MI DA 14	DE 422\	3Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont F					etland hydrology must be present,
	Matrix (S6)		Red Parent					less disturbed or problematic.
	Layer (if observed)	:			- · / <b>(····</b>	,	, <u></u>	
Type:	, , , , , , , , , , , , , , , , , , , ,							
Depth (in	ches).						Hydric Soil	Present? Yes No
	onco).						Tiyano con	11103cm: 103 100
emarks:								



Photo 1 Wetland data point wrae202e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	county: Randolph County	′	Sampling Date: 4/2/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae202_u
Investigator(s): CG, SH			on, Township, Range: No		
Landform (hillslope, terrace, etc.): Spoil					Slope (%): <u>3</u>
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Cookport variant s	silt loam, 3 to 8 p	percent slopes	Long	NWI classific	cation: None
Are climatic / hydrologic conditions on the	ne site typical fo	r this time of year? Y	′es No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	oresent? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?	Yes 🔽	No	Is the Sampled Area within a Wetland?	Vas	No
Wetland Hydrology Present?	Yes	No	within a Wetland:	163	
HADBOI OCA					
HYDROLOGY				Cocondon India	atora (minimum of two required)
Wetland Hydrology Indicators:	required; about	call that apply)			Crocks (PS)
Primary Indicators (minimum of one is Surface Water (A1)	•	True Aquatic Plants (		Surface Soil	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Sparsely ve	
Saturation (A3)		-		Moss Trim L	
Water Marks (B1)		Presence of Reduced	-		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)	<u> </u>	Thin Muck Surface (C	C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)					Position (D2)
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	T lest (D5)
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):			
		Depth (inches):			
		Depth (inches):		lydrology Prese	nt? Yes No
(includes capillary fringe)					it: res NO
Describe Recorded Data (stream gaug	je, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

Sampling	Point: wrae202_	u
Jannonna	ı Ollit. —	

22	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Betula alleghaniensis	10	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Tsuga canadensis	10	Yes	FACU	Total Niverban of Danisant
3. Betula lenta	5	Yes	FACU	Total Number of Dominant Species Across All Strata: 5 (B)
4				Species / to esse / to estata.
4				Percent of Dominant Species That Are OBL FACW or FAC: 60 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6	- ——			Prevalence Index worksheet:
7	25			Total % Cover of: Multiply by:
40		= Total Cover	5	OBL species $\frac{20}{100}$ $\times 1 = \frac{20}{100}$
50% of total cover: 12.	.5 20% of	total cover:	5	0
Sapling/Shrub Stratum (Plot size:)				FACW species X Z =
1				FAC species X3 = C0
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:95 (A)(B)
5				0.70
	-			Prevalence Index = B/A =2.73
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
•		= Total Cover	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				·
1Dichanthelium clandestinum	40	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Scirpus atrovirens	20	Yes	OBL	
3. Rubus arvensis	10	No	FAC	<sup>1</sup> 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				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
	70	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover:		
Woody Vine Stratum (Plot size: 30 )				Woody vine – All woody vines greater than 3.28 ft in height.
1				neigni.
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate	sheet.)			

Sampling Point: wrae202\_u

Depth (inches)			Dada	v Faatura	_		the absenc	,
	Matrix Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture	Remarks
0-16	10YR 4/1		2.5YR 4/8	40	C	PL/M	C	Nemarks
						· <u></u>		-
								· ·
	· .						-	
	. <u> </u>						-	· -
	· <del></del>						•	<del>.</del> .
Tuno. C C	Concentration D. Donl	otion DM	Doduced Metrix M	C Mooked	Cond Cr		21 continu	DI Doro Lining M Motely
	Concentration, D=Depl Indicators:	ellon, Riv	=Reduced Matrix, Mis	5=IVIASKeu	Sand Gr	ams.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup> :
-			5 . 6 .	(O-)				•
Histoso	` '		Dark Surface		(0.5) ==			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	•	,			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13	•				
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (	MLRA 13	6, 122)	<sup>3</sup> In	dicators of hydrophytic vegetation and
Sandy I	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> v	retland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> u	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:							Uvdria Sa	il Present? Yes 🗸 No
Type:	achoo):							
Depth (in	nches):						Tiyane oo	
Depth (ir							Tiyane oo	
Depth (ir	nches):	trations, s	poil pile, disturbed so	oils			Tryunc oo	<u></u>
Depth (ir		trations, s	poil pile, disturbed so	oils			Tiyunc oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed sc	bils			Tiyune oo	
Depth (ir		trations, s	poil pile, disturbed so	pils			Tiyuno oo	110
Depth (ir		trations, s	poil pile, disturbed so	oils			Tiyano oo	<u> </u>
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			i ilyano oo	<u> </u>
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			i iyano oo	<u> </u>
Depth (ir Remarks:		trations, s	poil pile, disturbed so	pils			Tiyano oo	<u> </u>
Depth (ir Remarks:		trations, s	poil pile, disturbed sc	pils			Tiyuno oo	<u></u>
Depth (ir Remarks:		trations, s	poil pile, disturbed sc	pils			Tiyuno oo	<u></u>
Depth (ir Remarks:		trations, s	poil pile, disturbed so	pils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	pils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	pils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	pils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyano oo	
Depth (ir Remarks:		trations, s	poil pile, disturbed so	bils			Tiyuno oo	



Photo 1 Upland data point wrae202\_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County		Sampling Date: 4/2/2016
Applicant/Owner: Dominion	State: WV Sampling Point: wrae203e				
Investigator(s): CG, SH Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): Dep					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Cookport variant	silt loam, 3 to 8	percent slopes		NWI classifi	cation: None
Are climatic / hydrologic conditions on t	he site typical fo	or this time of year?	′es <u> <b>′</b> </u>	If no, explain in F	Remarks.)
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	nt? Yes 🗸 No				
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area within a Wetland?	Voc. V	No
Wetland Hydrology Present?		No	within a wetiand?	res	NO
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is	required; check	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface					
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 Reduce		Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rei	marks)		Stressed Plants (D1)
Iron Deposits (B5)	(5-1)				Position (D2)
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	1 Test (D5)
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):			
		Depth (inches):	8		
		Depth (inches):	0 Westlement III	dualam. Duana	
Saturation Present? Yes _ (includes capillary fringe)	NO	Depth (inches):	wetland H	ydrology Prese	nt? Yes V No
Describe Recorded Data (stream gau	ge, monitoring v	vell, aerial photos, pre	evious inspections), if avail	lable:	
Domorko:					
Remarks:					

4
1.       Section 1.       Number of Dominant Species       2.       (A.         3.       4.       Total Number of Dominant Species That Are OBL, FACW, or FAC:       3.       (E.         4.       Percent of Dominant Species That Are OBL, FACW, or FAC:       66.66666666 (A.       66.66666666 (A.         7.       Prevalence Index worksheet:       Total % Cover of:       Multiply by:       OBL species 20 x 1 = 20       X1 = 20       FACW species 30 x 3 = 90       FACW species 30 x 3 = 90       FACU species 30 x 4 = 40       UPL species 30 x 5 = 0       Column Totals: 60 (A) 150       Total Number of Dominant Species That Are OBL, FACW, or FAC:       10 x 4 = 40       Total Number of Dominant Species That Are OBL, FACW, or FAC:       66.66666666 (A.       66.66666666 (A.       FACW species 10 x 4 = 40       Total Number of Dominant Species That Are OBL, FACW, or FAC:       66.6666666 (A.       FACW species 10 x 4 = 40       Total Number of Dominant Species That Are OBL, FACW, or FAC:       67.00       Total Number of Dominant Species That Are OBL, FACW, or FAC:       66.6666666 (A.       66.6666666 (A.       FACW species 20 x 1 = 20       Total Number of Dominant Species That Are OBL, FACW, or FAC:       67.00       Total Number of Dominant Species That Are OBL, FACW, or FAC:       67.00       Total Number of Dominant Species That Are OBL, FACW, or FAC:       67.00       Total Number of Dominant Species That Ar
Total Number of Dominant Species Across All Strata: 3 (E
3
Species Across All Strata:   3   (E
Percent of Dominant Species   66.6666666   (A   Factor   Factor
That Are OBL, FACW, or FAC: 66.6666666 (AC)  That Are OBL, FACW, or FAC: 66.6666666 (AC)  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 20 x 1 = 20 FACW species 20 x 2 = 0 FACW species 30 x 3 = 90 FACU species 30 x 3 = 90 FACU species 30 x 4 = 40 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 Column Totals: 60 (A) 150  Prevalence Index = B/A = 2.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  V 2 - Dominance Test is >50%  Herb Stratum (Plot size: 5 ) Sphagnum sp. 50 Yes  That Are OBL, FACW, or FAC: 66.66666666 (AC)  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 20 x 1 = 20 FACW species 30 x 3 = 90 FACU species 30 x 4 = 40 UPL species 60 (A) 150  Frevalence Index = B/A = 2.5  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  V 2 - Dominance Test is >50%  V 3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
Prevalence Index worksheet:   Total % Cover of:   Multiply by:
7
Sapling/Shrub Stratum (Plot size:
Sapling/Shrub Stratum (Plot size: 15   15   )
Sapling/Shrub Stratum (Plot size:15
1
2.
3
4
Frevalence Index = B/A =2.5    Prevalence Index = B/A =2.5     Prevalence Index = B/A =2
6
7
8
9
Total Cover   0   Total Cover   0   20% of total cover:   0   20% of total cover:   0   4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)   1. Sphagnum sp.   50   Yes   Problematic Hydrophytic Vegetation¹ (Explain)
Total Cover
Herb Stratum (Plot size: 5 )  1. Sphagnum sp. 50% of total cover: 5 20% of total cover: 5 data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
1. Sphagnum sp. 50 Yes Problematic Hydrophytic Vegetation¹ (Explain)
1. opnagnam op.
2. Dichanthelium clandestinum  20 Yes FAC  Carey prasina  20 Yes ORI  Indicators of hydric soil and wetland hydrology mus
3. Carex prasma be present, unless disturbed or problematic.
4. Solidago rugosa 10 No FAC Definitions of Four Vegetation Strata:
5. Rubus allegheniensis 10 No FACU
6. Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless
7 height.
8
9. Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than or equal to 3.28 ft (
10. m) tall.
44
110 = Total Cover Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55 20% of total cover: 22
Woody Vine Stretum (Plet size: 30 ) Woody vine - All woody vines greater than 3.28 ft
1
2
4 Hydrophytic
5 Vegetation
5
5
5
5
5
5
5
5

Depth	Matrix			x Features		_	
(inches)	Color (moist)	%	Color (moist)	<u>%</u> T	ype <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/2	100					Mucky peat
4-12	10YR 4/1	90	10YR 4/6	10	C PL/M	SICL	
12-16	2.5Y 6/2	80	7.5YR 5/8	20	C M	SIC	-
	•					_	
		_					
1- 0.0						21	
Hydric Soil		oletion, RM	l=Reduced Matrix, MS	S=Masked Sa	nd Grains.		PL=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			D = vl = 0 · vr (	(07)			
Histosol			Dark Surface		S8) <b>(MLRA 1</b> 4		2 cm Muck (A10) (MLRA 147)
	pipedon (A2) istic (A3)			,	56) (WILKA 14 LRA 147, 148		Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)			ed Matrix (F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	. ,		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)		rk Surface (F7	7)		Other (Explain in Remarks)
	ark Surface (A12)	, , , , , , , , , , , , , , , , , , ,	Redox Depre	,	,		от (2 <i>л</i> р.ш. т. соао)
	/lucky Mineral (S1) (	LRR N.	Iron-Mangan		F12) <b>(LRR N.</b>		
	A 147, 148)	,	MLRA 13		, ,		
	Gleyed Matrix (S4)		Umbric Surfa	•	RA 136, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)				(F19) <b>(MLRA</b>		etland hydrology must be present,
	Matrix (S6)				(MLRA 127,		nless disturbed or problematic.
	Layer (if observed)			· · · · · ·			·
Restrictive	Layer (ii observed)	•					
	Layer (II observed)	•					
Type:		•				Hydric Soi	I Present? Yes ✓ No
Type: Depth (in		•				Hydric Soi	I Present? Yes No
Type: Depth (in		•				Hydric Soi	I Present? Yes No
Type: Depth (in		•				Hydric Soi	I Present? Yes No
Type: Depth (in		•	<u> </u>			Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes <u>V</u> No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Туре:						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No
Type: Depth (in						Hydric Soi	I Present? Yes V No No



Photo 1
Wetland data point wrae203e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Randolph County	/	Sampling Date: 4/2/2016	
Applicant/Owner: Dominion	State: WV Sampling Point: wrae203.					
Investigator(s): CG, SH			on, Township, Range: No			
Landform (hillslope, terrace, etc.): Spoi					Slope (%): <u>3</u>	
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Cookport variant	silt loam, 3 to 8 p	ercent slopes	Long	NWI classific	cation: None	
Are climatic / hydrologic conditions on the	ne site typical for	this time of year? Y	es No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No	
Are Vegetation, Soil, or						
SUMMARY OF FINDINGS – A						
Hydrophytic Vegetation Present?	Yes 🗸	No				
Hydric Soil Present?	Yes 🔽	No	Is the Sampled Area within a Wetland?	Vas	No	
Wetland Hydrology Present?	Yes	No	within a wettand:	163		
HADBOLOGA						
HYDROLOGY Westend Hydrology Indicators:				Cocondon Indias	store (minimum of two required)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is	required; check	all that apply)			Crocks (PS)	
	-		Surface Soil Cracks (B6) 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			Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur		
Drift Deposits (B3)	7	Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	(	Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)					Position (D2)	
Inundation Visible on Aerial Image	∍ry (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)	
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):				
		Depth (inches):				
		Depth (inches):		lydrology Preser	nt? Yes No	
(includes capillary fringe)					it: 165 NO	
Describe Recorded Data (stream gaug	je, monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:		
Remarks:						

Sampling	Point: wrae203_	_u
Sambling	Point: wiaczoo-	_u

	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30			Status	Number of Dominant Species
1. Tsuga canadensis	10	Yes	FACU	That Are OBL, FACW, or FAC:4 (A)
2. Betula alleghaniensis	10	Yes	FAC	Total Number of Deminent
3. Betula lenta	5	Yes	FACU	Total Number of Dominant Species Across All Strata:  6 (B)
4				Sporice / torode / till etrata.
		<del></del> -		Percent of Dominant Species That Are ORL FACW or FAC: 66.6666666 (A/R)
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
<i>1</i>	25	<del></del>		Total % Cover of: Multiply by:
40.7		= Total Cover	5	OBL species20 x 1 =20
50% of total cover: 12.5	20% of	total cover:		
Sapling/Shrub Stratum (Plot size:)				FACW species X Z =
1. Acer rubrum	5	Yes	FAC	FAC species x 3 =
2		·		FACU species x 4 =
3				UPL species x 5 =
4	· ·			Column Totals: (A) (B)
5		·		0.75
				Prevalence Index = B/A =2.75
6		<del></del>		Hydrophytic Vegetation Indicators:
7		<del></del>		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover	4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 2.5	20% of	total cover:	1	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				·
1. Dichanthelium clandestinum	40	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Scirpus atrovirens	20	Yes	OBL	
3. Rubus arvensis	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4	-	<del></del> -		be present, unless disturbed or problematic.
4		· · · · · · · · ·		Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10		·		m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	70	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover:		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				neight.
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wrae203\_u

Depth (in all and	Matrix		x Features		Loc²	T	Damada
( <u>inches)</u> 0-16	Color (moist) % 10YR 4/1	Color (moist) 2.5YR 4/8	- <u>%</u> 40	Type <sup>1</sup> C	Loc PL/M	<u>Texture</u> C	Remarks
0-10							
				-			
		<del></del>					-
	·	<u> </u>					
				-			
	concentration, D=Depletion, I	RM=Reduced Matrix, M	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
ydric Soil	Indicators:						ators for Problematic Hydric Soils <sup>3</sup>
Histoso		Dark Surface	. ,				cm Muck (A10) (MLRA 147)
	pipedon (A2)	Polyvalue Be		, , .		<b>148)</b> C	coast Prairie Redox (A16)
	istic (A3)	Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)	Loamy Gleye	,	F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5)	<u>✓</u> Depleted Ma	. ,				(MLRA 136, 147)
	uck (A10) (LRR N)	Redox Dark		,			ery Shallow Dark Surface (TF12)
	d Below Dark Surface (A11)			. ,		0	other (Explain in Remarks)
	ark Surface (A12)	Redox Depre					
	Mucky Mineral (S1) (LRR N,	Iron-Mangan		es (F12) (	LRR N,		
	A 147, 148)	MLRA 13	•	MI DA 44	١٥ ، ١٥٥١	31	Santana af hardena harda ara satada a a a d
	Gleyed Matrix (S4)	Umbric Surfa					icators of hydrophytic vegetation and
	Redox (S5)	Piedmont Flo					tland hydrology must be present,
	d Matrix (S6)	Red Parent N	viateriai (F.	21) (WLF	A 127, 147	) un	less disturbed or problematic.
	Layer (if observed):						
Type:							.,
Depth (in	iches):					Hydric Soil	Present? Yes No
Remarks:							
narp bound	aries in redox concentrations	s, spoil pile, disturbed so	oils				



Photo 1 Upland data point wrae203\_u facing northwest

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 4/2/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae205e_w
Investigator(s): CG, SH			on, Township, Range: No		
Landform (hillslope, terrace, etc.): roa					Slope (%):2
Subregion (LRR or MLRA):         N         Lat:         38.60076541         Long:         -80.16588764         Datum:         WGS					
Soil Map Unit Name: Cookport varian	t silt loam, 3 to 8	percent slopes		NWI classifi	cation: None
Are climatic / hydrologic conditions or	the site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
Hydrophytic Vegetation Present?	Yes _ 🗸	No			
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one	is required; check	call that apply)		Surface Soil	
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B					
<u>✓</u> High Water Table (A2) <u>✓</u> 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		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (0			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic	
<ul><li> Inundation Visible on Aerial Ima</li><li>✓ Water-Stained Leaves (B9)</li></ul>	gery (b/)			Shallow Aqu	aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	
Field Observations:				17.0 140414	1 1001 (20)
	No 🗸	Depth (inches):			
	No No		12		
	No		0 Wetland H	lydrology Prese	nt? Yes 🗸 No
(includes capillary fringe)					105 110
Describe Recorded Data (stream ga	uge, monitoring w	vell, aerial photos, pre	evious inspections), if ava	iilable:	
Remarks:					
Nomano.					

	a) – Use scientific n	ames of	piants.		Sampling Point: wrae205e_w
	20	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:	)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 2 (A)
2			· ——		Total Number of Dominant
3			· ——		Species Across All Strata:3 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6			· <u></u>		Prevalence Index worksheet:
7			· <u></u>		Total % Cover of: Multiply by:
			= Total Cover	_	OBL species x 1 =
	50% of total cover:0 15	20% of	total cover:		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size	9:)	15	Voo	FAC	FAC species 25
•		15	Yes	FAC	FACU species 2 x 4 = 8
2			·		0
3					UPL species $\begin{array}{ccc} 0 & x & 5 = & 0 \\ \hline & 72 & (A) & 138 & (B) \\ \end{array}$
4					Column Totals:(A)(B)
5					Prevalence Index = B/A =1.91
6					Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
8			· <u></u>		2 - Dominance Test is >50%
9			· <u></u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	75		= Total Cover	3	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	50% of total cover: 7.5	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	5)	35	\/		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Sphagnum sp.		-	Yes	ODI	
2. Scirpus atrovirens		20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex lupulina		15	No No	OBL	be present, unless disturbed or problematic.
4. Betula alleghaniensis		10	No No	FAC	Definitions of Four Vegetation Strata:
5. Woodwardia areolata		10	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Tsuga canadensis		2	<u>No</u>	FACU	more in diameter at breast height (DBH), regardless of
7					height.
8					Sapling/Shrub – Woody plants, excluding vines, less
9			· <u> </u>		than 3 in. DBH and greater than or equal to 3.28 ft (1
10			· <u> </u>		m) tall.
11			·		Herb – All herbaceous (non-woody) plants, regardless
	46		= Total Cover		of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 46	20% of	total cover:	10.4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:	/				height.
1			·		
2					
3			·		
			·		Hydrophytic
4					
4		_			Vegetation
4 5		0	= Total Cover	^	Vegetation Present?  Yes No

	Matrix		Redox Features	<del>,</del>	ъ .
nches) 0-7	Color (moist) 10YR 6/1	100	Color (moist) % Type <sup>1</sup> Loc	<u>Texture</u> C	Remarks E HORIZON
0-7					
7-16	10YR 4/1	100		C	B HORIZON
					· ·
				<del></del>	
				<u> </u>	
					-
					-
					· -
		oletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix.
dric Soil	Indicators:			Indic	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA 1	· · · —	Coast Prairie Redox (A16)
_	stic (A3)		Thin Dark Surface (S9) (MLRA 147, 14		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Matrix (F3) Redox Dark Surface (F6)	,	(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Nedox Dark Surface (F6) Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	,o (, t. i.)	Redox Depressions (F8)	<u> </u>	outer (Explain in Remaine)
	Mucky Mineral (S1)	LRR N,	Iron-Manganese Masses (F12) (LRR N	,	
	A 147, 148)		MLRA 136)		
_ Sandy G	Bleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122	) <sup>3</sup> ln	dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Floodplain Soils (F19) (MLR)		etland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 127,	<b>147)</b> ui	nless disturbed or problematic.
strictive I	Layer (if observed)	:			
Type:			_		,
Type:				Hydric So	il Present? Yes No
Depth (inc	ches):		_	,	
Depth (inc	ches):		_	yano oo	
Depth (inc	ches):		<del></del>	Tryunto co	
Depth (inc	ches):		<del>-</del>		
Depth (inc	ches):		<del>-</del>	11,141.10	
Depth (inc	ches):		<del>-</del>		
Depth (inc	ches):		<del>-</del>	Nyano se	
Depth (inc	ches):		<del>-</del>		
Depth (inc	ches):		<del></del>		
Depth (inc	ches):		<del>-</del>	Nyano o	
Depth (inc	ches):			Nyano o	
Depth (inc	ches):		<del>-</del>	, injunio	
Depth (inc	ches):		<del>-</del>	, injunio s	
Depth (inc	ches):		<del></del>	, injunio s	
Depth (inc	ches):		<del></del>	, injunio s	
Depth (inc	ches):			, i i jui li i	
Depth (inc	ches):			, injunio	
	ches):			, injunio	
Depth (inc	ches):			, injunio	
Depth (inc	ches):			, injunio	
Depth (inc	ches):				
Depth (inc	ches):				
Depth (inc	ches):				



Photo 1
Wetland data point wrae205e\_w facing north



Photo 2
Wetland data point wrae205e\_w facing south

Project/Site: Atlantic Coast Pipeline			_ City/County: Ran	dolph County		Sampling Date: 4/2/2016	
Applicant/Owner: Dominion	State: WV Sampling Point: wrae205_u						
	Investigator(s): CG, SH Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Flat							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Cookport variant sil	t loam, 3 to 8	percent slope:	S		NWI classific	cation: None	
Are climatic / hydrologic conditions on the	site typical fo	or this time of	year? Yes	No (I	lf no, explain in R	Remarks.)	
Are Vegetation, Soil, or H	ydrology	significant	ly disturbed?	Are "Normal	Circumstances" ¡	present? Yes No	
Are Vegetation, Soil, or H							
SUMMARY OF FINDINGS – Att							
Hydrophytic Vegetation Present?	Yes	No. 🗸					
Hydric Soil Present?		No		npled Area	.,	🗸	
Wetland Hydrology Present?	Yes		within a W	Vetland?	Yes	No	
Remarks:			<u> </u>				
HYDROLOGY							
Wetland Hydrology Indicators:					Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is re	equired; chec	k all that apply	′)		Surface Soil	Cracks (B6)	
Surface Water (A1)	_	True Aquatic	Plants (B14)		Sparsely Ve	getated Concave Surface (B8)	
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)						tterns (B10)	
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)						ines (B16)	
Water Marks (B1)	_	Presence of F	Reduced Iron (C4)		Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	_	Recent Iron F	Reduction in Tilled S	oils (C6)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Thin Muck Su	ırface (C7)		Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Other (Explai	n in Remarks)		Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)					Geomorphic	Position (D2)	
Inundation Visible on Aerial Imager	y (B7)				Shallow Aqu	itard (D3)	
Water-Stained Leaves (B9)				-	Microtopogra	aphic Relief (D4)	
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)	
Field Observations:							
Surface Water Present? Yes	No	Depth (inche	es):				
Water Table Present? Yes	No	Depth (inche	es):				
	No	Depth (inche	es):	Wetland Hydrology Present? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge	e, monitoring v	well, aerial pho	otos, previous inspec	<u>l</u> ctions), if avail	lable:		
, , ,				,.			
Remarks:							

Sampling	Point: wrae205_u
Sambilliu	FUIII

	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size: 0		Species?	Status	Number of Dominant Species
1. Acer rubrum	30	Yes	FAC	That Are OBL, FACW, or FAC:2 (A)
2. Tsuga canadensis	30	Yes	FACU	
3. Fagus grandifolia	5	No	FACU	Total Number of Dominant
				Species Across All Strata:4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 0			0	OBL species0 x 1 =0
0	20% 01	total cover:_		0 0
Sapling/Shrub Stratum (Plot size:)				50 450
<sub>1.</sub> Fagus grandifolia	30	Yes	FACU	FAC species X 3 = 200
2. Acer pensylvanicum	5	No	FACU	FACU species x 4 =
3.				UPL species0 x 5 =0
				Column Totals:120
4				Goldmir Foldis (F) (B)
5				Prevalence Index = B/A =3.58
6				
7		<del>-</del>	_	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:_	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Athyrium angustum	20	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
11,				
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Canling/Church Woody plants avaluding visca loss
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
	0	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: $0$	20% of	total cover:_	0	Wandy vina All woody vinos greater than 2.29 ft in
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3				
4				Hydrophysio
5.				Hydrophytic Vegetation
<u> </u>	0	Total Cava		Present? Yes No
500/ ()		= Total Cove	0	
30 % of total cover:		total cover:_		
50% of total cover: 0  Remarks: (Include photo numbers here or on a separate s		total cover:_		

Depth	Matrix		Redox Features				
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-4	2.5YR 2.5/1	100			С		
4-16	10YR 5/8	100			SIC		
	-				-		
	-					-	
	-					-	
Type: C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Masked Sand Gra	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Mat	trix.
lydric Soil	Indicators:					ators for Problemation	
Histosol	(A1)		Dark Surface (S7)		2	cm Muck (A10) (MLR	A 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (N	ILRA 147, 1		oast Prairie Redox (A	
Black Hi	stic (A3)		Thin Dark Surface (S9) (MLRA 1	47, 148)	. —	(MLRA 147, 148)	,
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		P	iedmont Floodplain So	oils (F19)
Stratified	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)	
2 cm Mu	ick (A10) (LRR N)		Redox Dark Surface (F6)		V	ery Shallow Dark Surf	face (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		0	ther (Explain in Rema	arks)
	ark Surface (A12)		Redox Depressions (F8)				
Sandy N	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Manganese Masses (F12) (	_RR N,			
MLRA	A 147, 148)		MLRA 136)				
Sandy G	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 13	6, 122)	<sup>3</sup> Indi	icators of hydrophytic	vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils (F19)	(MLRA 148	s) we	tland hydrology must	be present,
Stripped	Matrix (S6)		Red Parent Material (F21) (MLR	A 127, 147)	unl	less disturbed or prob	lematic.
Restrictive	Layer (if observed):						
Type:			<u>_</u>				
Depth (in	ches):				Hydric Soil	Present? Yes	No 🖍
Remarks:							



Photo 1 Upland data point wrae205\_u facing north



Photo 2
Upland data point wrae205\_u facing south

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 4/2/2016	
Applicant/Owner: Dominion						
Investigator(s): CG, SH Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1						
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Cookport variant	silt loam, 3 to 8 p	ercent slopes		NWI classifi	cation: None	
Are climatic / hydrologic conditions on	the site typical for	r this time of year? Y	′es No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, o	r Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No	
Are Vegetation, Soil, o						
SUMMARY OF FINDINGS - A						
Hydrophytic Vegetation Present?	Yes _ 🗸	No				
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area	V V	No	
Wetland Hydrology Present?		No	within a Wetland?	res	NO	
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one i	e required: check	all that apply)		Surface Soi		
Surface Water (A1)	B14)	Sparsely Vegetated Concave Surface (B8)				
✓ High Water Table (A2)						
✓ 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			Water Table (C2)	
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Bu		
Drift Deposits (B3)		Thin Muck Surface (0		-	/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer			Stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic Position (D2)		
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aquitard (D3)		
Water-Stained Leaves (B9)				Microtopographic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	ll Test (D5)	
Field Observations:						
	No					
	<b>∨</b> No		12			
	<u>✓</u> No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes No	
(includes capillary fringe)  Describe Recorded Data (stream gau	uae. monitorina w	ell. aerial photos, pre	vious inspections), if ava	ilable:		
3	32, 3 3	. , , , ,	.,,			
Remarks:						

## ٧

Tree Stratum (Plot size:3    1				<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:  1 (A)  Total Number of Dominant Species Across All Strata:  1 (B)
3					
5					
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
50					
					Prevalence Index worksheet:
		0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	4.5	20% of	total cover:	0	OBL species X I =
	)				FACW species X2 = X
l					FAC species x 3 =
2					FACU species X4 = X4 = X
3	_				UPL species x 5 =
ł. <u> </u>					Column Totals: (A) (B)
5					Prevalence Index = B/A =1.16
S					Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
3					2 - Dominance Test is >50%
9					✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		0	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50	0% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
ieid Stiatuiii (Fiot Size.	5)				, ,
1. Carex lupulina	_	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Matteuccia struthiopteris		5	No	FACW	The disease of budgie as it and westered budgets as years
3					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4					Definitions of Four Vegetation Strata:
5					
5					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
7. <u> </u>					more in diameter at breast height (DBH), regardless of height.
B					
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.
I1.					Harle All barbaras of case was the algorithms are all as a second
		30	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50	0% of total cover:15		total cover:		
Noody Vine Stratum (Plot size:	30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
					noight.
).					
3					
4					
ī. 5.					Hydrophytic Vegetation
·		0	= Total Cover		Present? Yes No
50	0% of total cover:		total cover:	0	
Remarks: (Include photo numbers					

	cription: (Describe	to the de				or confirm	the absence	ce of indicators.)
Depth	Matrix	0/	Redo	x Feature		1002	Tout	Domorko
(inches) 0-6	Color (moist) 10YR 4/1	<u>%</u> 80	Color (moist) 10YR 4/6	<u>%</u> 20	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	<u>Texture</u> C	Remarks
	· -						-	
6-14	10YR 5/1	85	10YR 4/6	15	C	M	SICL	
						-		-
	· -							
					· -			_
			· -					_
		-						
1Tuno. C. C	Concentration D. Donl	lotion DA	A Doduced Metrix M	C Moolsos			21 acations	DI Dara Lining M Matrix
	Concentration, D=Depl	letion, Riv	i=Reduced Matrix, Mi	S=IVIASKed	a Sand Gr	ains.		PL=Pore Lining, M=Matrix.
•			Davis Confess	(07)				•
Histoso			Dark Surface		(CO) <b>/</b>	ALDA 447		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be Thin Dark Su				148)	Coast Prairie Redox (A16)
	listic (A3)				, .	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(FZ)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark		-c)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	- (Δ11)	Depleted Da				_	Other (Explain in Remarks)
	Park Surface (A12)	- (A11)	Redox Depre				_	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			I RR N		
	A 147, 148)	,	MLRA 13		(1 12)	LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa		/MIRA 13	36 122)	<sup>3</sup> lr	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):		11001 010111	viateriai (i	21) (III LI	121, 171		inicos distarbed of problematic.
Type:								
	l \.						Uhadala Ca	SH Dressent 2 Vac V
	nches):						Hydric Sc	oil Present? Yes No
Remarks:								



Photo 1 Wetland data point wrae204e\_w facing southeast

Project/Site: Atlantic Coast Pipeline		City/	County: Randolph County	/	Sampling Date: 4/2/2016		
Applicant/Owner: Dominion		State: WV Sampling Point: wrae204					
Investigator(s): CG, SH Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): Flat	[				Slope (%): 1		
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Cookport variant	silt loam, 3 to 8	percent slopes		NWI classific	cation: None		
Are climatic / hydrologic conditions on	the site typical for	or this time of year?	Yes No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, o	r Hydrology	significantly distu	urbed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil, o							
SUMMARY OF FINDINGS –							
Hydrophytic Vegetation Present?	Yes	No. 🗸					
Hydric Soil Present?		No	Is the Sampled Area	Vaa	No 🗸		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
HYDROLOGY							
Wetland Hydrology Indicators:	a a a suda a di la basa	al all that anal A			ators (minimum of two required)		
Primary Indicators (minimum of one i	-		(D4.4)	Surface Soil			
Surface Water (A1)		True Aquatic Plants Hydrogen Sulfide O		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16)			
High Water Table (A2) Saturation (A3)							
Water Marks (B1)		Presence of Reduce	-	Dry-Season Water Table (C2)			
Sediment Deposits (B2)			ion in Tilled Soils (C6)				
Drift Deposits (B3)		Thin Muck Surface		-	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Re	emarks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				Geomorphic	Position (D2)		
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:	No. V	Donth (inches)					
		_ Depth (inches): Depth (inches):					
				Judralagy Proces	nt? Yes No		
Saturation Present? Yes No _ Depth (inches): Wetland Hydrology Present? Yes No _ No _ No _ No _ No _ No _ No					it: 165NO		
Describe Recorded Data (stream gat	age, monitoring v	well, aerial photos, p	revious inspections), if ava	iilable:			
Remarks:							

Sampling Point: wrae204\_u

20	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Tsuga canadensis	50	Yes	FACU	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	30	Yes	FAC	Total New Long ( Device of
3. Betula alleghaniensis	10	No	FAC	Total Number of Dominant Species Across All Strata:  6 (B)
4				Operics / toross / till othata.
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6				Prevalence Index worksheet:
7				
	90	= Total Cover		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
50% of total cover: 45	20% of	total cover:	18	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Tsuga canadensis	25	Yes	FACU	FAC species65
2. Acer pensylvanicum	10	Yes	FACU	FACU species100 x 4 =400
3. Fagus grandifolia	10	Yes	FACU	UPL species 0 x 5 = 0
3. Tagus granunona			1700	165 505
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.6
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
00.5	45	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 22.5	20% of	total cover:	9	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				
1. Athyrium angustum	20	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Smilax rotundifolia	5	No	FAC	
3. Magnolia tripetala		No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree Meady plants avaluation vines 2 in (7.0 cm) or
6				<b>Tree</b> – 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
·				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
	30	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15	20% of	total cover:	6	Weeds vine All weeds vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2		-		
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cover	r	Present? Yes No
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s				
Remarks. (include prioto numbers here of off a separate s	neet.)			

Sampling Point: wrae204\_u

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)	
Depth	Matrix		Redo	x Features	3				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	R	emarks
0-4	2.5Y 2.5/1	100					C		
4-16	10YR 5/8	100					SIC		
				-	-			-	-
					-				
					-				
·									
									_
1 <sub>T</sub> C. C.			and the same of th		C		21	Dens Lining N	A Matrix
Hydric Soil I	oncentration, D=Depl	etion, Rivi=R	educed Matrix, MS	s=iviasked	Sand Gra	ains.		PL=Pore Lining, Meators for Proble	matic Hydric Soils <sup>3</sup> :
-			Davis Confess	(07)					-
Histosol	(A1) pipedon (A2)		Dark Surface		oo (SS) <b>(N</b>	II D A 147		2 cm Muck (A10)	-
Histic Ep			Polyvalue Be Thin Dark Su				140)(	Coast Prairie Red MLRA 147, 14	
	n Sulfide (A4)		Loamy Gleye			41, 140)	ı	Piedmont Floodpl	-
	Layers (A5)		Depleted Mar		· <i>L</i> )		<u> </u>	(MLRA 136, 14	
	ck (A10) <b>(LRR N)</b>		Redox Dark		6)		,	Very Shallow Darl	
	Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in I	
	ark Surface (A12)		Redox Depre						,
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR N,			
	147, 148)		MLRA 13				_		
	leyed Matrix (S4)		Umbric Surfa						hytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology	· ·
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	') ur	nless disturbed or	problematic.
	_ayer (if observed):								
Type:			<del>_</del>				l		🗸
	ches):		_				Hydric Soi	I Present? Yes	s No
Remarks:									



Photo 1 Upland data point wrae204\_u facing southeast

Project/Site: Atlantic Coast Pip	eline	City	/County: Randolph County	у	Sampling Date: 4/7/2016	
Applicant/Owner: DOMINION State: WV Sampling Point: wrac104						
Investigator(s): Team C						
Landform (hillslope, terrace, etc						
					Datum: WGS 1984	
Soil Map Unit Name: Cookport	variant silt loam,	3 to 8 percent slopes		NWI classific	cation: None	
Are climatic / hydrologic conditi	ions on the site ty	pical for this time of year?	Yes No	(If no, explain in R	emarks.)	
Are Vegetation, Soil	, or Hydroloç	gy significantly dist	urbed? Are "Normal	l Circumstances" p	oresent? Yes No	
Are Vegetation, Soil						
					, important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	✓ No				
Hydric Soil Present?	Yes	✓ No	Is the Sampled Area within a Wetland?	Vos V	No	
Wetland Hydrology Present?		<b>✓</b> No	within a wetland:	165		
Remarks:			l			
HYDROLOGY						
Wetland Hydrology Indicato					ators (minimum of two required)	
Primary Indicators (minimum	of one is required			Surface Soil		
Surface Water (A1)		True Aquatic Plants			getated Concave Surface (B8)	
High Water Table (A2)		<u>✓</u> Hydrogen Sulfide C		Drainage Pa		
Saturation (A3)			eres on Living Roots (C3)	Moss Trim L		
Water Marks (B1)		Presence of Reduc	, ,		Water Table (C2)	
Sediment Deposits (B2)			tion in Tilled Soils (C6)	Crayfish Bur		
Drift Deposits (B3)		Thin Muck Surface			isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in R	emarks)	Stunted or Stressed Plants (D1)		
Inundation Visible on Aer	rial Imagery (B7)			<ul><li>Geomorphic Position (D2)</li><li>Shallow Aquitard (D3)</li></ul>		
Water-Stained Leaves (B					aphic Relief (D4)	
Aquatic Fauna (B13)	,			✓ FAC-Neutral		
Field Observations:						
Surface Water Present?	Yes V No	Depth (inches):	2			
Water Table Present?		Depth (inches):	0			
Saturation Present?		Depth (inches):	0 Wetland H	Hydrology Preser	nt? Yes ✔ No	
(includes capillary fringe)						
Describe Recorded Data (stre	am gauge, monit	toring well, aerial photos, p	revious inspections), if ava	ailable:		
Remarks:						
Wetland hydrology indicators	present. Tadpoles	s in pools				
, , ,	•	•				

## VEGE

	00	Absolute	Dominant I		Dominance Test worksheet:
ree Stratum (Plot size:			Species?	Status	Number of Dominant Species
					That Are OBL, FACW, or FAC:1 (A)
					Total Number of Dominant
					Species Across All Strata: 2 (B)
					Percent of Dominant Species
					That Are OBL, FACW, or FAC: 50 (A/B)
		_			Prevalence Index worksheet:
		0	= Total Cove	er	Total % Cover of: Multiply by:
	50% of total cover:	20% of	total cover:_	0	OBL species 5 x 1 = 5  FACW species 5 x 2 = 10
apling/Shrub Stratum (Plot	size:)				FACW Species
					FAC species 25 x 3 = 75
					FACU species x 4 = 0
					UPL species0 x 5 =0
					Column Totals:35 (A)90 (B)
					0.57
					Prevalence Index = B/A = 2.57
					Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
					2 - Dominance Test is >50%
			<del></del>		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	50% of total cover:		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
lant Ourstone (Distrator	_	20% 01	total cover	-	data in Remarks or on a separate sheet)
lerb Stratum (Plot size: Athyrium angustum	)	25	Voo	EAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			Yes	FAC	
Sphagnum sp.			Yes		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Juncus effusus			No No	FACW	be present, unless disturbed or problematic.
Carex lupulina		5	No	OBL	Definitions of Four Vegetation Strata:
•					Tree Meady plants avaluding vines 2 in (7.6 cm) or
					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
					height.
					Canling/Church Weady plants evaluating vines less
					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0					m) tall.
1					Herb – All herbaceous (non-woody) plants, regardless
		60	= Total Cove		of size, and woody plants less than 3.28 ft tall.
	50% of total cover:3		total cover:	12	
loody Vine Stratum (Plot siz	ze: 30 )		_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
					neight.
		_			Hydrophytic
					Vegetation Present? Yes No
	500/ -(		= Total Cove	^	1 1636III: 163 NO
	50% of total cover:	2070 01	total cover:_		
omarke: (Include phote pur	bers here or on a separate	sheet.)			
emarks. (include prioto nun		,			

0-12	Depth	Matrix		Redox Features		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.   2   Location: PL=Pore Lining, M=Matrix.	(inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Lo		re Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    PL=Pore Lining, M=Matrix.   Indicators for Problematic Hydric Soils   Indicators of Problematic Hydric Soil Present?   Indicators in Indicators   Indic	0-12	10 YR 4/2	100		SL	
ydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thic Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches):  Depth (inches):  Depth (inches):  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  Depletad Below Surface (A10)  MLRA 147, 148)  Depleted Matrix (F2)  Depleted Matrix (F3)  MLRA 136, 147)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  John-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No  No  Memarks:	12-18	10 YR 5/2	100		SL	
ydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Redox (S5) Sardy Redox (S5) Redox Dark Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present? Yes No  Redox Problematic Hydric Soils³:  2 cm Muck (A10) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Fype:  Depth (inches):  Depth (inches):  Depth (inches):  Hydric Soil Present? Yes No  Piedmont Floodplain Soils (F19) No						<del></del> -
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)			- — — —			
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)						
ydric Soil Indicators:  _ Histosol (A1)	Type: C=C	oncentration D=Der	oletion RM-Re	educed Matrix MS=Masked Sand Grains	<sup>2</sup> l ocatio	n: PI =Pore Lining M=Matrix
Histosol (A1)			olotion, rtivi–rti	sacca manx, mo-masked cana craine.		
Histic Epipedon (A2)	-			Dark Surface (S7)	_	
Black Histic (A3)					147 149\	
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3)  Zem Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Extrictive Layer (if observed):  Type: Depth (inches):  Endox Dark Surface (F1) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Other (Explain in Remarks)  Very Shallow Dark Surface (TF12)  Depleted Dark Surface (F7) Other (Explain in Remarks)  Very Shallow Dark Surface (TF12)  Lopented Dark Surface (F7) Depleted Dark Surface (F12) Depleted Dark Surface (F7) Depleted Dark Surface (F12) Depleted Dar						
Stratified Layers (A5)		, ,			140)	
					-	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6)  estrictive Layer (if observed): Type: Depth (inches): Depleted Dark Surface (F7) Depleted Dark Surface (F7) Surface (F12) (LRR N, Sur						
Thick Dark Surface (A12)			-e (Δ11)	<del></del>	-	
Sandy Mucky Mineral (S1) (LRR N,			<i>(</i> ( <i>(</i> ( ) ( ) )		-	Other (Explain in Remarks)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  _ Stripped Matrix (S6)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)   _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)  _ Soil Present? Yes No  _ Beararks:			LRR N.		N.	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Type: Piedmont Floodplain Soils (F19) (MLRA 127, 147) unless disturbed or problematic.  Betrictive Layer (if observed):	-				,	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No  emarks:				· · · · · · · · · · · · · · · · · · ·	2)	<sup>3</sup> Indicators of hydrophytic vegetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No  emarks:						
estrictive Layer (if observed):  Type:  Depth (inches):  emarks:  Hydric Soil Present? Yes No						
Type: Depth (inches): No emarks:			<u> </u>		1, ,	amood distances of problematic
Depth (inches): Hydric Soil Present? Yes No emarks:		, (,	-			
emarks:		ah a a \ .		_	l localui a	Call Duna and A. Van V. Na
		cnes):			Hydric	Soil Present? Yes No
etland hydrology indicators present. Hydrogen Sulfide Odor present	emarks:					
	etland hydr	ology indicators pres	sent. Hydroger	າ Sulfide Odor present		



Photo 1 Wetland data point WRAC104e\_w facing east



Photo 2
Wetland data point WRAC104e\_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: R	andolph County	Sampling Date: 4/7/2016			
Applicant/Owner: DOMINION	State: WV Sampling Point: wrac104					
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Slight slope						
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Cookport variant silt loam,	3 to 8 percent slopes	NWI class	sification: None			
Are climatic / hydrologic conditions on the site ty	oical for this time of year? Yes	No (If no, explain ir	n Remarks.)			
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	Are "Normal Circumstances	s" present? Yes 🗸 🗸 No			
Are Vegetation, Soil, or Hydrolog						
SUMMARY OF FINDINGS – Attach s						
Hydrophytic Vegetation Present? Yes	No Is the S					
	No 4	Sampled Area	🗸			
	No within a	a Wetland? Yes	No			
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Inc	licators (minimum of two required)			
Primary Indicators (minimum of one is required	check all that apply)	Surface S	oil Cracks (B6)			
Surface Water (A1)	Sparsely \	<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>				
High Water Table (A2)	Drainage					
Saturation (A3)	ing Roots (C3) Moss Trim	_ Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4	Dry-Seaso	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	d Soils (C6) Crayfish E	Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		r Stressed Plants (D1)			
Iron Deposits (B5)			Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		<pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre>				
Aquatic Fauna (B13)		FAC-Neut	trai Test (D5)			
Field Observations:	V Donath (imphas)					
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Pres	sent? Yes No			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous ins	pections), if available:				
Remarks: No wetland hydrology indicators present						
No wettand flydrology indicators present						

Sampling Point: wrac104\_u

00	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> 35		Status	Number of Dominant Species
1. Tsuga canadensis		Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Betula alleghaniensis	25	Yes	FAC	Total Number of Dominant
3. Acer rubrum	20	Yes	FAC	Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				That Are OBL, FACW, OF FAC (A/B)
7.				Prevalence Index worksheet:
r	80	Total Cava		Total % Cover of: Multiply by:
50% of total cover: 40		= Total Cover total cover:	16	OBL species0 x 1 =0
15	20% 01	lotal cover		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size:)  1 Fagus grandifolia	20	Yes	FACU	FAC species 65 x 3 = 195
"		163	1 700	70 000
2				FACU species x 4 = 280
3				UPL species
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.51
6				1 Tevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
9	20	T-1-1-0		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 10		= Total Cover total cover:	r 4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 % of total cover	20% 01	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	20	Vaa	EAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		Yes	FAC	
2. Dendrolycopodium obscurum	15	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or 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
10.				m) tall.
	-			
11	35	T 0		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 17.5		= Total Cover total cover:	_	of size, and woody plants less than 3.26 it tall.
00	20% 01	lotal cover	<u> </u>	Woody vine – All woody vines greater than 3.28 ft in
(1 lot 3i26.				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	ce of indicat	ors.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-6	10 YR 3/2	100					SL	_		
6-18	10 YR 6/2	100	_			·	SL			_
	-									
							-			
			_					_		_
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.			ing, M=Matrix.	_
Hydric Soil	Indicators:						Ind	icators for P	roblematic Hydi	ric Soils³:
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (	(A10) <b>(MLRA 147</b>	)
Histic Ep	pipedon (A2)		Polyvalue Be				148)	Coast Prairie	e Redox (A16)	
Black Hi			Thin Dark Su	, ,	•	47, 148)		(MLRA 1		
	n Sulfide (A4)		Loamy Gleye		F2)				oodplain Soils (F	19)
	d Layers (A5)		Depleted Ma					(MLRA 1		
	ick (A10) (LRR N)		Redox Dark S						w Dark Surface (1	ΓF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Expla	ain in Remarks)	
	ark Surface (A12)		Redox Depre							
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,				
	147, 148)		MLRA 13	•	MI DA 40	c 400\	31.			-ti
	Sleyed Matrix (S4)		Umbric Surfa						nydrophytic veget	
	ledox (S5) Matrix (S6)		Piedmont Flo					-	ology must be pre	
	_ayer (if observed):		Red Falentin	nateriai (F	ZI) (IVILK	A 121, 141	1	uriless distuit	oed or problemati	<b>С.</b>
	Layer (ii observed).									
Type:			<u>—</u>				1			🗸
Depth (inc	ches):						Hydric So	oil Present?	Yes	No
Remarks:										
No hydric soil	indicators present									



Photo 1 Upland data point WRAC104\_u facing north



Photo 2
Upland data point WRAC104\_u facing south

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 5/31/2016			
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae232e_w			
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): road Local relief (concave, convex, none): convex Slope (%): 20								
Subregion (LRR or MLRA): N	9398013	Datum: WGS 1984						
Soil Map Unit Name: Gilpin-Dekalb stor	y complex, moi	ist, 35 to 70 percent s	lopes	NWI classific	cation: PEM			
Are climatic / hydrologic conditions on the	e site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or I	Hydrology	significantly distur	bed? Are "Normal	I Circumstances"	present? Yes No			
Are Vegetation, Soil, or I								
SUMMARY OF FINDINGS – A								
Hydraphytic Vegetation Present?	Voc. V	No						
Hydric Soil Present?	rophytic Vegetation Present?  Yes V  No  Is the Sampled Area  Yes V  No  within a Wetland?							
Wetland Hydrology Present?		 No	within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (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)		getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L				
Water Marks (B1)	Dry-Season	Water Table (C2)						
Sediment Deposits (B2)	Crayfish Burrows (C8)							
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or S	Stressed Plants (D1)			
Iron Deposits (B5)					Position (D2)			
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu				
Water-Stained Leaves (B9)					aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)			
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):						
		Depth (inches):						
Saturation Present? Yes		etland Hydrology Present? Yes No						
(includes capillary fringe)	and hydrology Fresent: Tes No							
Describe Recorded Data (stream gaug	e, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Demodes								
Remarks:								

	Absolute	Dominant I	ndicator	Dominance Test worksheet:	
<u>Free Stratum</u> (Plot size:)		Species?			
none	0	Оресіез:	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:  1	(A)
				Total Number of Dominant	
3				Species Across All Strata:	(B)
l					. ,
5				Percent of Dominant Species That Are ORL FACW or FAC: 50	(
		·		That Are OBL, FACW, or FAC:	(A/B
S				Prevalence Index worksheet:	
<b>7.</b>	0			Total % Cover of: Multiply by:	
		= Total Cove	^	OBL species $\frac{50}{}$ x 1 = $\frac{50}{}$	
50% of total cover:0	20% of	total cover:_		20	_
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =	_
none	0			FAC species x 3 =	_
2.				FACU species x 4 =	_
3.				UPL species0 x 5 =0	_
				Column Totals:100 (A)210	(B)
k				(1)	_ (-)
5				Prevalence Index = B/A = 2.1	_
5				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
3					
9.		· -		2 - Dominance Test is >50%	
^	0	= Total Cove		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:0		total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide sup	porting
F	20 /6 01	total cover		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size:5 )  L Carex lupulina	50	V	ODI	Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	in)
		Yes	OBL		,
2. Dactylis glomerata	30	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology r	muct
3. Boehmeria cylindrica	10	No	FACW	be present, unless disturbed or problematic.	iiusi
<sub>1.</sub> Impatiens capensis	10	No	FACW	Definitions of Four Vegetation Strata:	
5				Deminions of Four Vegetation Strata.	
5.				Tree – Woody plants, excluding vines, 3 in. (7.6	
				more in diameter at breast height (DBH), regard	less of
7				height.	
3	-			Sapling/Shrub – Woody plants, excluding vines	. less
9				than 3 in. DBH and greater than or equal to 3.28	
10				m) tall.	
11.				Herb – All herbaceous (non-woody) plants, rega	rdlocc
	100	= Total Cove		of size, and woody plants less than 3.28 ft tall.	liuless
50% of total cover: 50		total cover:			
Noody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28	3 ft in
none	0			height.	
<u>2</u>					
3					
4. <u> </u>				Hydrophytic	
D.				Vegetation	
	0	= Total Cove		Present? Yes No	
50% of total cover: 0		total cover:	. 0		
0070 01 total 00Ve1.		.5.0. 00 001		1	
Remarks: (Include photo numbers here or on a separate s	sneet.)				

	cription: (Describe t	o the de				or confirm	the absence	of indicators.)
Depth	Matrix (acciet)	0/	Redo	x Feature:		1 - 2	<b>T t</b>	Devede
(inches) 0-12	Color (moist) 10YR 5/2	<u>%</u> 90	Color (moist) 10YR 4/6	<u>%</u> 10	Type <sup>1</sup> C	Loc <sup>2</sup> PL	<u>Texture</u> C	Remarks
0-12	10110 3/2		1011(4/0					
					-			
-								-
-								-
						· ——		
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		,	,					ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) <b>(N</b>	ILRA 147		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su				0	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			,0,	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat	,	1 2)		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		-6)		V	'ery Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	(/ ( / / / /	Redox Depre				_ ~	who (Explain in Romano)
	Mucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		00 (i i=) <b>(</b>	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	6. 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent N					less disturbed or problematic.
	Layer (if observed):		110011 0101111	natorial (i	, <b>(</b>	,, , <u>_</u> ,, , ,,	, a	reco dictarbed of problematic.
Type: R	OCK							
Type								D
	nches): <u>12</u>						Hydric Soil	Present? Yes No No
Remarks:								



Wetland data point wrae232e\_w facing south



Wetland data point wrae232e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	/	Sampling Date: 5/31/2016			
Applicant/Owner: Dominion				Sampling Point: wrae232_u			
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): road		Slope (%): 5					
Subregion (LRR or MLRA): N					Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Dekalb stony	complex, mo	ist, 35 to 70 percent s	slopes	NWI classific	eation: UPL		
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or H	ydrology	, significantly distur	bed? Are "Normal	l Circumstances" r	present? Yes No		
Are Vegetation, Soil, or H							
SUMMARY OF FINDINGS – Att	-						
Hydrophytic Vegetation Present?							
Hydric Soil Present?	Yes Yes	No	Is the Sampled Area within a Wetland?	Vos	No 🗸		
Wetland Hydrology Present?	Yes		within a wetland?	1es	NO		
HYDROLOGY							
Wetland Hydrology Indicators:				·	ators (minimum of two required)		
Primary Indicators (minimum of one is re			(T)	Surface Soil Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od	5 (00)	Drainage Patterns (B10)			
Saturation (A3) Water Marks (B1)		Presence of Reduced	-	ots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri			
Drift Deposits (B3)		Thin Muck Surface (		-	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)				Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery	y (B7)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	Hydrology Presen	nt? Yes No		
Describe Recorded Data (stream gauge	, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ıilable:			
Damada							
Remarks: GRAVEL ROAD, NO HYDROLOGY							
STATULE TROPIES, THE TITE ENGLISH							

Sampling	Point: wrae232_	_u
Sambling	Point: widezez-	_~

00	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC:0 (A)
2		Total Number of Deminent
3		Total Number of Dominant Species Across All Strata:  0 (B)
4.		eposico / torocc / tili etrata.
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:0 (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	
50% of total cover:0	20% of total cover:0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15		FACW species x 2 =
1. none	0	FAC species x 3 =
2		FACU species x 4 =
		UPL species x 5 =
3		Column Totals: (A) (B)
4		Column rotals (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		
8		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
9	0 Tatal Causa	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0	= 10tal Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
F	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. none		1 Toblematic Tryarophytic Vegetation (Explain)
2		1
3		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		
<u> </u>		Definitions of Four Vegetation Strata:
5		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		more in diameter at breast height (DBH), regardless of
7		height.
8		Sapling/Shrub – Woody plants, excluding vines, less
9		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		m) tall.
11.		
	0 = Total Cover	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0	20% of total cover:	of size, and woody plants less than 5.20 it tall.
30 % of total cover	20 % or total cover	Woody vine – All woody vines greater than 3.28 ft in
/ (i lot size)	0	height.
1. none		
2		
3		
4		
5.		Hydrophytic Vegetation
o	0 = Total Cover	Present? Yes No
50% of total cover:0	0 = Total Cover 20% of total cover:0	
Remarks: (Include photo numbers here or on a separate s	heet.)	
GRAVEL ROAD		

Sampling Point: wrae232\_u

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redo	x Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S	
							-				
							-				
	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked S	Sand Gra	ins.		PL=Pore Lin			
Hydric Soil	Indicators:						Inc	licators for P	roblematic	<b>Hydric Soils</b>	s³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (	A10) <b>(MLR</b>	<b>A</b> 147)	
	oipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147.	148)	Coast Prairie	. , .	•	
Black Hi			Thin Dark Su		. , .		, _	(MLRA 14	•	,	
	en Sulfide (A4)		Loamy Gleye			, <b>,</b>		Piedmont Fl		ils (F19)	
	d Layers (A5)		Depleted Mar		,			(MLRA 1		/	
	ick (A10) <b>(LRR N)</b>		Redox Dark		)			Very Shallov		ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar	•				Other (Expla			
	ark Surface (A12)	( ,	Redox Depre							,	
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			RR N.					
	\ 147, 148)	,	MLRA 13		) (i i i i i j ) (i i	,					
	Gleyed Matrix (S4)		Umbric Surfa		II RA 13	3 122)	3	Indicators of h	vdrophytic v	vegetation an	nd
	Redox (S5)		Piedmont Flo					wetland hydro		-	iu .
	Matrix (S6)		Red Parent N					unless disturb			
	Layer (if observed):		Red r arent n	iatoriai (i Z	i) (IVILIX)	1 127, 177	<del>,</del>	unicos distart	oca or probit	ornatio.	
	Layer (ii observeu).										
Type:			_								,
Depth (inc	ches):		_				Hydric S	oil Present?	Yes	No	_
Remarks:							•				
GRAVEL ROA	AD, NO SOIL PIT										



Upland data point wrae232\_u facing south



Upland data point wrae232\_u facing north

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 5/31/20						
Applicant/Owner: Dominion			Sampling Point: wrae233e_w					
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): roa								
Subregion (LRR or MLRA): N		-80.18515024	Long: 38.5	9350844	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb st	ony complex, mo	ist, 35 to 70 percent s	lopes	NWI classifi	cation: PEM			
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, c	r Hydrology	, significantly distur	bed? Are "Norma	I Circumstances"	present? Yes No			
Are Vegetation, Soil, c								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Yes _ 🗸	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area					
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:		<u> </u>						
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one	is required; checl	k all that apply)		Surface Soi	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (		Sparsely Ve	getated Concave Surface (B8)			
✓ High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	atterns (B10)			
Saturation (A3)			es on Living Roots (C3)					
Water Marks (B1)		Presence of Reduced			Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu				
Drift Deposits (B3)		Thin Muck Surface (0			/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		Stressed Plants (D1)			
Iron Deposits (B5) Inundation Visible on Aerial Ima	gory (R7)			Geomorphic Position (D2)				
Water-Stained Leaves (B9)	gery (b/)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:					1 1001 (20)			
	No.	Depth (inches):						
		Depth (inches):	0					
	✓ No		0 Wetland h	Hydrology Prese	nt? Yes 🗸 No			
(includes capillary fringe)					163 <u>——</u> 116 <u>——</u>			
Describe Recorded Data (stream ga	uge, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ailable:				
Remarks:								
Nomano.								

Sampling	Point: wrae233e_	w
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00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)  1 none	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species That Are ORL FACW or FAC: 2 (A)
-				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				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0		= Total Cover	_	OBL species60 x 1 =60
50% of total cover: 0	20% of	total cover:	0	OBL species
Sapling/Snrub Stratum (Plot size:)				FACW species x z =
1. <i>none</i>	0			FAC species X 3 =
2				FACU species x 4 =
3				UPL species $0 \times 5 = 0$ $100 \times 5 = 140 \times 100$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.4
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 2 - Dominance Test is >50%  ✓ 3 - Prevalence Index is ≤3.0¹
	0	= Total Cover		
50% of total cover:0		total cover:	0	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. Glyceria striata	50	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juncus effusus	30	Yes	FACW	4
3. Carex canescens	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Boehmeria cylindrica	5	No	FACW	Definitions of Four Vegetation Strata:
5. Impatiens capensis	5	No	FACW	Definitions of Four Vegetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8.				noight.
9				Sapling/Shrub – Woody plants, excluding vines, less
10.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	100	Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		= Total Cover total cover:		
Woody Vine Stratum (Plot size: 30 )	2070 01			Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
2				
3				
4				Hydrophytic
5				Vegetation Present?  Yes No
500/ // / 0		= Total Cover	. 0	riesent: res No
50% of total cover:0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Featur	es		
(inches)	Color (moist)	<u>%</u>	Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-16	10YR 5/1	100			CL	B horizon
			<del></del>			
						-
			<del></del>			
Type: C=C	oncentration, D=Depl	letion, RM=F	Reduced Matrix, MS=Maske	ed Sand Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
lydric Soil		,	•			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S7)		2	cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surf	ace (S8) (MLRA 147.		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S		, 0	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix		Р	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Matrix (F3)	()	<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface	F6)	V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark Surface	'		Other (Explain in Remarks)
	ark Surface (A12)	. (, )	Redox Depressions (			(27prain in 1 terriaine)
	/lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Mas			
	A 147, 148)	,	MLRA 136)	000 (1 12) <b>(2</b> 1111 14)		
	Gleyed Matrix (S4)		Umbric Surface (F13)	(MI RA 136, 122)	3Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain			etland hydrology must be present,
	Matrix (S6)		Red Parent Material (			less disturbed or problematic.
	Layer (if observed):		Red Farent Material (	1 2 1) (MEICA 121, 141	, un	recordinated of problematic.
Type:	_ayo: ( obco: voa):					
						5 10 Y Y N
	ches):		_		Hydric Soil	Present? Yes No
Remarks:						



Wetland data point wrae233e\_w facing north



Wetland data point wrae233e\_w facing south

Project/Site: Atlantic Coast Pi	peline	City/C	County: Randolph County		Sampling Date: 5/31/2016		
Applicant/Owner: Dominion			•		Sampling Point: wrae233_u		
Investigator(s): CG, RP		Section Section	on, Township, Range: No	<del>-</del>			
Landform (hillslope, terrace, e							
Subregion (LRR or MLRA): N					Datum: WGS 1984		
Soil Map Unit Name: Gilpin-D		_ Lats ex_moist_35 to 70 percent s	lones	ADA# 1 '6'	UPI		
Are climatic / hydrologic condi		· · · · · · · · · · · · · · · · · · ·					
Are Vegetation, Soil	, or Hydrology	y significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil	, or Hydrology	y naturally problema	atic? (If needed, e	xplain any answei	rs in Remarks.)		
SUMMARY OF FINDIN	IGS – Attach s	ite map showing san	npling point locatio	ns, transects	, important features, etc.		
Hydrophytic Vegetation Pres	cent? Vec	No_ <b>✓</b>					
Hydric Soil Present?		No	Is the Sampled Area	.,	No		
Wetland Hydrology Present?		No 🗸	within a Wetland?	Yes	NO		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicat	tors:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum		check all that apply)		Surface Soil			
Surface Water (A1)		True Aquatic Plants (	<u> </u>	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat			
Saturation (A3)		Oxidized Rhizospher		Moss Trim Li			
Water Marks (B1)		Presence of Reduced		Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)		Thin Muck Surface (0	C7)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or St	ressed Plants (D1)		
Iron Deposits (B5)				Geomorphic			
Inundation Visible on Ae				Shallow Aqui			
Water-Stained Leaves (	B9)				phic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:	V N-	V Danille (Carlosa)					
Surface Water Present?		Depth (inches):					
Water Table Present?		Depth (inches):			t2 Vos No V		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	wetland H	ydrology Presen	t? Yes No		
Describe Recorded Data (str	ream gauge, monito	oring well, aerial photos, pre	evious inspections), if avai	ilable:			
Remarks:							
GRAVEL ROAD, NO HYDRO	DLOGY						
,							

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

Sampling Point: wrae233\_u

00	Absolute Domina		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover Specie	es? Status	Number of Dominant Species	
1. none			That Are OBL, FACW, or FAC:	(A)
2				
			Total Number of Dominant	0 (P)
3			Species Across All Strata:	(B)
4			Percent of Dominant Species	
5			That Are OBL, FACW, or FAC:	0 (A/B)
6				
7			Prevalence Index worksheet:	
	0 = Total (	Cover	Total % Cover of:	Multiply by:
50% of total cover:0			OBL species x 1 :	=
15	20 /0 01 10141 00	vci	FACW species x 2	
Sapling/Shrub Stratum (Plot size: 15 )	0		FAC species x 3 :	
1. none				
2			FACU species x 4 :	
3			UPL species x 5	=
4			Column Totals: (A)	(B)
5			Prevalence Index = B/A =	
6			Hydrophytic Vegetation Indicato	rs:
7			1 - Rapid Test for Hydrophytic	
8			I - ' ' ' ' '	vegetation
9			2 - Dominance Test is >50%	
<u> </u>	^		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:0	= 10(a)	over 0	4 - Morphological Adaptations	(Provide supporting
F	20% of total co	ver:	data in Remarks or on a se	parate sheet)
Herb Stratum (Plot size:5			Problematic Hydrophytic Vege	•
1. none	0		Froblematic Hydrophytic vege	tation (Explain)
2				
			<sup>1</sup> Indicators of hydric soil and wetlar	
3			be present, unless disturbed or pro	
4			Definitions of Four Vegetation S	trata:
5			Trace Manager and and another discovering	0 in (7.0 nm) nm
6			<b>Tree</b> – Woody plants, excluding vir more in diameter at breast height (	
7			height.	DDI 1), Togaraicss of
8				
			Sapling/Shrub – Woody plants, ex	
9			than 3 in. DBH and greater than or	equal to 3.28 ft (1
10			m) tall.	
11			Herb - All herbaceous (non-woody	/) plants, regardless
	0 = Total (	Cover	of size, and woody plants less than	
50% of total cover: $0$	20% of total co			
Woody Vine Stratum (Plot size: 30 )	<del></del>		Woody vine – All woody vines gre	ater than 3.28 ft in
1. none	0		height.	
2				
3				
4			I hadnombastic	
5.			Hydrophytic Vegetation	
	0 = Total 0	Cover		No 🗸
50% of total cover:		^		
30 /0 01 total cover.	20% of total co	ver		
Remarks: (Include photo numbers here or on a separate s	heet.)			
GRAVEL ROAD				

Sampling Point: wrae233\_u

Profile Desc	ription: (Describe t	o the depth r	needed to docur	nent the i	ndicator	or confirm	the abse	nce of indica	tors.)		
Depth	Matrix			x Feature	S	. 2	_		_		
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remar	ks	
					' <u>-</u>						
								<del></del>			
			<del></del>								
								<del></del>			
					-		-				
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location	n: PL=Pore Li	ning, M=Mat	rix.	
Hydric Soil I							In	ndicators for	Problematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) <b>(MLR</b>	A 147)	
	ipedon (A2)	-	Polyvalue Be		ce (S8) <b>(N</b>	II RA 147.	148)		ie Redox (A		
Black His		-	Thin Dark Su				, _		147, 148)	10)	
	n Sulfide (A4)	=	Loamy Gleye			41, 140,			Floodplain So	oile (F10)	
	Layers (A5)	-	Depleted Ma		1 2)		_		136, 147)	) (1 1 <i>3)</i>	
	ck (A10) <b>(LRR N)</b>	-	Redox Dark		-c)				ow Dark Surf	000 (TF10)	
	l Below Dark Surface	. (Δ11)	Redox Dark	•	,		-		lain in Rema		
		(A11)					-	_ Other (Exp	iaiii iii Keilia	iks)	
	rk Surface (A12)		Redox Depre			DD 11					
	ucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) <b>(</b>	LKK N,					
	147, 148)		MLRA 13	•				3			
	leyed Matrix (S4)	-	Umbric Surfa					<sup>3</sup> Indicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hyd			
	Matrix (S6)	-	Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless distu	rbed or probl	ematic.	
Restrictive L	.ayer (if observed):										
Type:			_								
Depth (inc	ches):						Hydric	Soil Present?	Yes	No	~
Remarks:	, -						1 -				
	AD, NO SOIL PIT										
GRAVEL ROP	ND, NO SOIL FIT										



Upland data point wrae233\_u facing south



Upland data point wrae233\_u facing north

Project/Site: Atlantic Coast Pipeline	City/C	City/County: Randolph County					
Applicant/Owner: Dominion		State: WV					
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): bench							
Subregion (LRR or MLRA): N				Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony o	complex, moist, 35 to 70 percent s	lopes	NWI classifica	ation: PEM			
Are climatic / hydrologic conditions on the s	site typical for this time of year? Y	res No (If	no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hyd	drology significantly distur	bed? Are "Normal C	Circumstances" pi	resent? Yes No			
Are Vegetation, Soil, or Hyd							
SUMMARY OF FINDINGS – Atta							
	Yes No	Is the Sampled Area					
	Yes No	within a Wetland?	Yes	No			
Wetland Hydrology Present?  Remarks:	Yes No						
LIVEROLOGY							
HYDROLOGY							
Wetland Hydrology Indicators:	or the state of the form the			ors (minimum of two required)			
Primary Indicators (minimum of one is rec			Surface Soil (				
Surface Water (A1) High Water Table (A2)	True Aquatic Plants ( Hydrogen Sulfide Od			etated Concave Surface (B8)			
Saturation (A3)	Oxidized Rhizospher		_ Drainage Patt Moss Trim Lir				
Water Marks (B1)	Presence of Reduced		<ul><li>(3) Moss Trim Lines (B16)</li><li> Dry-Season Water Table (C2)</li></ul>				
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burre				
Drift Deposits (B3)	Thin Muck Surface (0		-	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rer	marks) _	Stunted or Str	ressed Plants (D1)			
Iron Deposits (B5)		<del>-</del>	Geomorphic F	, ,			
Inundation Visible on Aerial Imagery	(B7)	_	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		<del>-</del>	Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No. V Double (Contrar)						
` <del>`</del>	No Depth (inches):  Depth (inches):	<del></del>					
		0 Wotland Hy	drology Present	t? Yes ✔ No			
(includes capillary fringe)	_ No Deptit (inches)	Welland Hy	arology Fresem	1: Tes NO			
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pre	vious inspections), if availa	able:				
Remarks:							
remarks.							

Sampling Point Wide24 16_W	Sampling	Point: wrae241e_	w
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:3 (A)
2				( )
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species 40 x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 )				FACW species60
1. none	0			FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
2				
3				UPL species
4				Column Totals: (A) (B)
5				D 1 1 2 2 1 6
				Prevalence Index = B/A =1.6
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	r	<del></del>
50% of total cover:0	20% of	total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Anthoxanthum hirtum	30	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juncus effusus	25	Yes	FACW	
3. Carex vulpinoidea	20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Glyceria striata	15	No	OBL	be present, unless disturbed or problematic.
0	5			Definitions of Four Vegetation Strata:
5. Carex scoparia		No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Carex lurida	5	No	OBL	more in diameter at breast height (DBH), regardless of
7				height.
8				Senting/Shrub Weeds plants evaluding since less
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				
'''-	100			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		= Total Cove total cover:		of size, and woody plants less than 3.20 it tall.
0070 01 10101 00 001.	20% 01	lotal cover		Woody vine – All woody vines greater than 3.28 ft in
violation (1 lot size)	0			height.
1. <u>none</u>	0			
2				
3				
4				
5.				Hydrophytic Vegetation
J	0 :	Tatal Caus		Present? Yes No
50% of total cover: 0		= Total Cove total cover:_	^	
		total cover		
Remarks: (Include photo numbers here or on a separate sl	noot.)			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the abse	ence of indica	tors.)		
Depth (in a land)	Matrix		Redo	x Feature:		1 - 2	<b>.</b>		-	d	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u> </u>	Remar	ks	
-											
								-			
					-						
	ncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.		n: PL=Pore Li			
Hydric Soil I	ndicators:						In	ndicators for	Problematic	: Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) <b>(MLR</b>	A 147)	
	ipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	II RΔ 147	148)		rie Redox (A		
Black His			Tolyvalde Be				, _		147, 148)	. 0,	
						47, 140)				oilo (F10)	
	n Sulfide (A4)		Loamy Gleye		F2)		_		Floodplain So	JIIS (F 19)	
	Layers (A5)		Depleted Ma						136, 147)		
	ck (A10) <b>(LRR N)</b>		Redox Dark	•	,		-		ow Dark Surf		)
Depleted	Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		_	_ Other (Exp	lain in Rema	ırks)	
Thick Da	rk Surface (A12)		Redox Depre	ssions (F	8)						
Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (	_RR N,					
MLRA	147, 148)		MLRA 13	6)							
	leyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)		<sup>3</sup> Indicators of	hydrophytic	vegetation	and
	edox (S5)		Piedmont Flo					wetland hyd		-	
	Matrix (S6)		Red Parent N					unless distu			••
			Red r arent n	nateriai (i	Z I) (WILK	7 121, 141	<del>'</del>	uriless distu	bed of probl	iemanc.	
restrictive L	.ayer (if observed):										
	vel and rock		_								
Depth (inc	:hes): <u>0</u>		_				Hydric	Soil Present?	? Yes	No _	
Remarks:											
	to gravel and rock a	t the surface	throughout the we	etland are	а						
to con pit due	to gravor and rook a	t tilo odilado	anoughout are m	stiarra aro	u.						



Wetland data point wrae241e\_w facing west



Wetland data point wrae241e\_w facing southwest

Project/Site: Atlantic Coast Pipeline		City/County: Randolph County Sampling Date: 6/4/						
Applicant/Owner: Dominion		State: WV Sampling						
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): hillslop								
Subregion (LRR or MLRA): N		Datum: WGS 1984						
Soil Map Unit Name: Gilpin-Dekalb stony	/ complex, mo	oist, 35 to 70 percer	nt slopes	NWI classific	cation: UPLAND			
Are climatic / hydrologic conditions on the	e site typical fo	or this time of year?	? Yes No ✔	(If no, explain in R	Remarks.)			
Are Vegetation, Soil, or H								
Are Vegetation, Soil, or H				explain any answe				
SUMMARY OF FINDINGS – Att	-							
		-			, , , , , , , , , , , , , , , , , , , ,			
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		,			
Hydric Soil Present? Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No			
Remarks:	162	110						
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is r	equired; checl	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	_	True Aquatic Plan	ts (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide		Drainage Patterns (B10)				
Saturation (A3)			neres on Living Roots (C3)	Moss Trim L				
Water Marks (B1)		Presence of Redu		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			ction in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	_	Other (Explain in F	Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)				
Indit Deposits (B5) Inundation Visible on Aerial Imager	v (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	, (=. )			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:					· · ·			
Surface Water Present? Yes	No	_ Depth (inches):						
Water Table Present? Yes	No	_ Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	_ Depth (inches):	Wetland H	Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge	e, monitoring v	well, aerial photos,	previous inspections), if ava	ailable:				
Remarks:								

Sampling	Point: wrae241_	_u
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Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
That Ale OBE, I AGW, OIT AG (A)
Total Nevel and Charles
Total Number of Dominant Species Across All Strata:  0 (B)
(B)
Percent of Dominant Species
That Are OBL, FACW, or FAC:0 (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species x 1 =
FACW species x 2 =
FAC species x 3 =
FACU species x 4 =
UPL species x 5 =
Column Totals: (A) (B)
Column rotals (A) (B)
Prevalence Index = B/A =
Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0 <sup>1</sup>
4 - Morphological Adaptations <sup>1</sup> (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1 Tobicinatio 1 Tydrophytio Vogetation (Explain)
1
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Definitions of Four Vegetation Strata:
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.
<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
of size, and woody plants loss than 5.20 it tall.
Woody vine – All woody vines greater than 3.28 ft in
height.
Hydrophytic Vegetation Present?

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	n the abs	sence of indicators.)
Depth	Matrix		Redo	x Features	S1	. ,	_	
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure Remarks
								<del></del> , - <del></del>
	-						-	<del></del> -
¹Type: C=Cc	ncentration, D=Deple	ation PM-Pe	aduced Matrix MS		I Sand Gr		<sup>2</sup> Locati	ion: PL=Pore Lining, M=Matrix.
Hydric Soil I		Buon, Kivi=Ke	educed Matrix, Mis	=iviaskeu	i Sanu Gra	allis.		Indicators for Problematic Hydric Soils <sup>3</sup> :
-			Dorle Curtons	(07)				
Histosol		,	Dark Surface		00 (00) (*	II D A 447	1.40\	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)	•	Polyvalue Be				148)	Coast Prairie Redox (A16)
Black His		•	Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma		·o\			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>	(0.4.4)	Redox Dark					Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dai					Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	ucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRK N,		
	147, 148)		MLRA 13	•				3
	leyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: roc	k/gravei		_					
Depth (inc	hes): <u>0</u>		<u> </u>				Hydri	ic Soil Present? Yes No
Remarks:								



Upland data point wrae241\_u facing southwest



Upland data point wrae241\_u facing southeast

Project/Site: Atlantic Coast Pipeline		City/C	county: Randolph County	/	Sampling Date: 5/31/2016			
Applicant/Owner: Dominion	State: WV Sampling Point: wrae230							
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): roadsic								
Subregion (LRR or MLRA): N	Lona: 38.5	9205733	Datum: WGS 1984					
Soil Map Unit Name: Gilpin-Dekalb stony	complex, mo	oist, 35 to 70 percent s	lopes	NWI classifi	cation: PEM			
Are climatic / hydrologic conditions on the	site typical f	or this time of year? Y	res No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hy	drology	significantly distur	bed? Are "Normal	I Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Hydrophytic Vegetation Present?	Vos V	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	🗸				
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:	-	<u> </u>						
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is re	quired; chec	k all that apply)		Surface Soil				
Surface Water (A1)		True Aquatic Plants (	B14)		getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L				
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		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) ✓ FAC-Neutral Test (D5)				
Aquatic Fauna (B13)				FAC-Neutra	1 Test (D5)			
Field Observations: Surface Water Present? Yes	No. V	Donth (inches)						
		Depth (inches): Depth (inches):						
		Depth (inches):		luduala au Duana	nt? Yes 🗸 No			
(includes capillary fringe)	NO	_ Depth (inches):	wetland r	nyarology Prese	nt? Yes V No			
Describe Recorded Data (stream gauge	monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:				
Devente								
Remarks:								

Sampling P	oint: <sup>wrae230e</sup> -	w
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20	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species _
1. none				That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  6 (B)
4				Openies / toross / tir circuta.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 83.33333333 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove		
50% of total cover:0	20% of	total cover:_	0	ODL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Viburnum dentatum	5	Yes	FAC	FAC species 40 x 3 = 120
2. Spiraea japonica	5	Yes	FACU	FACU species5 x 4 =20
				UPL species 0 x 5 = 0
3				Column Totals: 105 (A) 230 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A = 2.19
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	10	<del></del>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 5		= Total Cove	r 2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
-	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex lupulina	20	Yes	OBL	1 Toblematic Hydrophytic Vegetation (Explain)
2. Boehmeria cylindrica	20	Yes	FACW	1
3. Equisetum arvense	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Acer rubrum	15	Yes	FAC	
5. Carex canescens	10	No	OBL	Definitions of Four Vegetation Strata:
6. Impatiens capensis	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7. Thalictrum pubescens	5	No	FACW	height.
8. Rumex crispus	5	No	FAC	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.				
· ··-	95	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5		total cover:	19	or size, and woody plants less than 5.20 it tail.
0070 01 10101 00 1011	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
vvocay vine citatum (i lot size.	0			height.
1. none				
2				
3				
4				
5.				Hydrophytic
J	0	T-1-1-0		Vegetation
50% of total cover: 0		= Total Cove	r O	100 NO
30 % of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe to	o the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Features				
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/1	80	7.5YR 3/4	20	С	M	S	
·								
								-
					-			
							2	
	oncentration, D=Deple	etion, RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	, ,		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be				<b>148)</b> C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				0	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,		
MLRA	\ 147, 148)		MLRA 136					
	Bleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
✓ Sandy R	tedox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	' <b>)</b> unl	ess disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type: RC	OCK							
Depth (inc	ches). 6						Hydric Soil	Present? Yes V No No
							,	
Remarks:								



Wetland data point wrae230e\_w facing south



Wetland data point wrae230e\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Randolph County Sampling Date: 5/31/20						
Applicant/Owner: Dominion	State: WV Sampling Point: wrae23						
Investigator(s): CG, RP Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): roadside ditch							
Subregion (LRR or MLRA): N	Long: 38.59211662	Datum: WGS 1984					
Soil Map Unit Name: Gilpin-Dekalb stony comple	ex, moist, 35 to 70 percent slopes	NWI classif	ication: PEM				
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes	No (If no, explain in	Remarks.)				
Are Vegetation, Soil, or Hydrolog	y significantly disturbed?	Are "Normal Circumstances"	present? Yes No				
Are Vegetation, Soil, or Hydrolog							
SUMMARY OF FINDINGS – Attach s							
	No. 4/	mpled Area  Wetland?  Yes	No				
	No	velianu? res	NO				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)				
Primary Indicators (minimum of one is required	check all that apply)	Surface So					
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	<u>✓</u> Drainage P					
Saturation (A3)	Oxidized Rhizospheres on Living	_					
Water Marks (B1)	Presence of Reduced Iron (C4)		n Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S	·	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation					
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or	Stressed Plants (D1)				
Iron Deposits (B5)		Geomorphi	c Position (D2)				
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)					
Aquatic Fauna (B13)		<u>✓</u> FAC-Neutra	al Test (D5)				
Field Observations:							
	Depth (inches):						
	Depth (inches):						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes V No				
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous inspe	ctions), if available:					
Remarks:							

Sampling Poi	nt·wrae231e_w
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. <u>none</u>				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Operics / toross / till othata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6		-		Prevalence Index worksheet:
7				
	0	= Total Cover		Total % Cover of: Multiply by:  OBL species 35 x 1 = 35
50% of total cover: 0	20% of	total cover:	0	ODL species x 1 =
Sapling/Shrub Stratum (Plot size: 15				FACVV species
1. none	0			FAC species10 x 3 =30
2		·		FACU species0 x 4 =0
2				UPL species
3		-		70 115
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.64
6				Trevalence index = B// =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	0	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Glyceria striata	15	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Poa palustris	15	Yes	FACW	
3. Carex lupulina	15	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10	No No	FAC	be present, unless disturbed or problematic.
4. Equisetum arvense		<del></del>		Definitions of Four Vegetation Strata:
5. Thalictrum pubescens	5	No	FACW	Total Mandaglada sududiancias Gia (7.0 sa) an
6. Carex vulpinoidea	5	No	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Impatiens capensis	5	No	FACW	height.
8				
•				Sapling/Shrub – Woody plants, excluding vines, less
·· <del>·</del>		-		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		m) tan.
11				Herb - All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35	20% of	total cover:	14	Weedy vine All woody vines greater than 2.29 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1. none	0			noight.
3			<del></del> -	
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
		10101 00101.		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: wrae231e\_w

Profile Desc	ription: (Describe to the	e depth needed to document the indicator or confir	rm the abs	sence of indicators.)
Depth	Matrix	Redox Features	_	
(inches)	Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Textu	ure Remarks
		<del>_</del>		
			_	<del></del>
			_	
				<u> </u>
				<del></del>
				<del></del>
1		<del></del>	2	
		, RM=Reduced Matrix, MS=Masked Sand Grains.		on: PL=Pore Lining, M=Matrix.
Hydric Soil	ndicators:			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147	7, 148)	Coast Prairie Redox (A16)
Black Hi		Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	Layers (A5)	Depleted Matrix (F3)	•	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	d Below Dark Surface (A1		•	Other (Explain in Remarks)
				Other (Explain in Remarks)
	ark Surface (A12)	Redox Depressions (F8)		
	lucky Mineral (S1) (LRR N			
	\ 147, 148)	MLRA 136)		2
	lleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy R	edox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	148)	wetland hydrology must be present,
Stripped	Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	47)	unless disturbed or problematic.
Restrictive I	ayer (if observed):			
Type: gra	avel			
Depth (inc			Llydeid	Sail Brocant? Voc. No.
	ries)		пуага	Soil Present? Yes No
Remarks:				
no soil pit due	to gravel at 0			



Wetland data point wrae231e\_w facing east



Wetland data point wrae231e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph County	/	Sampling Date: 7/11/2016				
Applicant/Owner: Dominion				State: WV	Sampling Point: wrae278e_w				
Investigator(s): CG, JM			on, Township, Range: No						
Landform (hillslope, terrace, etc.): de									
Subregion (LRR or MLRA): N		38.58970546	Long: -80.	18500349	Datum: WGS 1984				
Soil Map Unit Name: Gilpin-Dekalb st		ist, 35 to 70 percent s	lopes	NWI classific	cation: PEM				
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in R	Remarks.)				
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	oresent? Yes No				
Are Vegetation, Soil,									
SUMMARY OF FINDINGS -									
Hydrophytic Vegetation Present?	Yes	No							
Hydric Soil Present?	Yes V	No	Is the Sampled Area						
Wetland Hydrology Present?		No	within a Wetland?	Yes	No				
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)				
Primary Indicators (minimum of one	is required; check	call that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)		True Aquatic Plants (	(B14)	Sparsely Ve	getated Concave Surface (B8)				
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	itterns (B10)				
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	(C3) Moss Trim Lines (B16)					
Water Marks (B1)		Presence of Reduced		Dry-Season	Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur					
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		stressed Plants (D1)				
Iron Deposits (B5)	(DZ)			Geomorphic					
Inundation Visible on Aerial Ima	gery (B7)			Shallow Aqu					
Water-Stained Leaves (B9) Aquatic Fauna (B13)				✓ FAC-Neutral	aphic Relief (D4)				
Field Observations:				T AC-Neutra					
	No. 🗸	Depth (inches):							
	✓ No		0						
	✓ No		0 Wetland H	lydrology Presei	nt? Yes 🗸 No				
(includes capillary fringe)					n: 100				
Describe Recorded Data (stream ga	uge, monitoring w	vell, aerial photos, pre	evious inspections), if ava	iilable:					
Remarks:									
Nomano.									

•	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:			
Tree Stratum (Plot size:)			Status	Number of Dominant Species			
1. Liriodendron tulipifera	5	Yes	FACU	That Are OBL, FACW, or FAC:4 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: 7 (B)			
4				、 /			
5				Percent of Dominant Species That Are OBL_FACW_or FAC: 57.14285714 (A/R)			
0				That Are OBL, FACW, or FAC: <u>57.14285714</u> (A/B)			
b				Prevalence Index worksheet:			
<i>1</i>	5			Total % Cover of: Multiply by:			
50% of total cover: 2.5		= Total Cover	1	OBL species 15 x 1 = 15			
15	20% of	total cover:		85 170			
Sapling/Shrub Stratum (Plot size:)	_			75 x 2 =			
1. Acer saccharum	5	Yes	FACU	FAC species X3 =			
2. Fraxinus pennsylvanica	5	Yes	FACW	FACU species x 4 =			
3. Liriodendron tulipifera	5	Yes	FACU	UPL species x 5 =			
4				Column Totals:140 (A)320 (B)			
5				Prevalence Index - R/A - 2.28			
6				Trevalence index = b/A =			
7				Hydrophytic Vegetation Indicators:			
/				1 - Rapid Test for Hydrophytic Vegetation			
8				✓ 2 - Dominance Test is >50%			
9	15			✓ 3 - Prevalence Index is ≤3.0¹			
75		= Total Cover	3	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
50% of total cover: 7.5	20% of	total cover:		data in Remarks or on a separate sheet)			
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
1. Boehmeria cylindrica	30	Yes	FACW	Floblematic Hydrophytic Vegetation (Explain)			
2. Viola cucullata	20	Yes	FACW				
3. Impatiens capensis	20	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4. Glyceria striata	15	No	OBL				
5. Sambucus nigra	10	No	FAC	Definitions of Four Vegetation Strata:			
6. Eutrochium purpureum	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
7. Thalictrum pubescens	10	No	FACW	more in diameter at breast height (DBH), regardless of			
8 Equisetum arvense	5	No	FAC	height.			
8. <u>Equisetum arvense</u>			170	Sapling/Shrub – Woody plants, excluding vines, less			
9		<u> </u>		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			
	120	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.			
50% of total cover: 60	20% of	total cover:	24	Was divides. All was divided an acceptant have 2 00 ft in			
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.			
1. none	0			noight.			
2.							
		-					
3							
4				Hydrophytic			
5				Vegetation			
		= Total Cover	r 0	Present? Yes No No			
50% of total cover:0	20% of	total cover:	<u> </u>				
Remarks: (Include photo numbers here or on a separate s	heet.)						

	cription: (Describe t	o uie ue				or commit	i ilie absellee	or mulcators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 4/1	95	10YR 5/6	5	C	M	SL	Nomano
						· ——		
						. ——		
						. ——		
						<del></del>		,
	concentration, D=Deple	etion, RM	I=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
-	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat					(MLRA 136, 147)
	uck (A10) (LRR N)	(4.4.4)	Redox Dark S	,	,			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) <b>(L</b>	RK N,	Iron-Mangane		es (F12) (	LKK N,		
	A 147, 148)		MLRA 130	•	/MI D A 43	oc 400\	3100	diagtors of hydrophytic vegetation and
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5) d Matrix (S6)		Piedmont Flom Red Parent M					etland hydrology must be present,
	Layer (if observed):		Red Parent iv	ialenai (F	ZI) (WILK	A 121, 141	) un	less disturbed or problematic.
Type: ro	ck							
			<del></del>					
Depth (in	iches): <u> </u>						Hydric Soil	Present? Yes No
Remarks:								
uger refusa	l at 6 inches.							



Wetland data point wrae278e\_w facing east



Wetland data point wrae278e\_w facing west

Project/Site: Atlantic Coast Pipeline			City/	County: Randolph Coun	ty	Sampling Date: 7/11/2016	
Applicant/Owner: Dominion		State: W				Sampling Point: wrae278_u	
				tion, Township, Range: N			
Landform (hillslope, terrace, etc.): Road			Local re	elief (concave, convex, no	one): convex	Slope (%):2	
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Udorthents, mudsto	ne and shale	, low bas	se		NWI classifi	cation: UPL	
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or H	vdrology 🗸	signi	ificantly distu	urbed? Are "Norma	al Circumstances"	present? Yes No	
Are Vegetation, Soil, or H							
SUMMARY OF FINDINGS – Att							
Hydrophytic Vegetation Present?	Yes	No	~				
Hydric Soil Present?	Yes			Is the Sampled Area	Vaa	No ✓	
Wetland Hydrology Present?	Yes			within a Wetland?	Yes	No	
HYDROLOGY							
Wetland Hydrology Indicators:					Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is re		Surface Soil Cracks (B6)					
Surface Water (A1)	(B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	dor (C1)	Drainage Patterns (B10)					
Saturation (A3)	oots (C3) Moss Trim Lines (B16)						
Water Marks (B1)			ce of Reduce			Water Table (C2)	
Sediment Deposits (B2)				ion in Tilled Soils (C6)	Crayfish Bu	rrows (C8) /isible on Aerial Imagery (C9)	
Drift Deposits (B3) Algal Mat or Crust (B4)			ick Surface ( Explain in Re			Stressed Plants (D1)	
Iron Deposits (B5)		Outer (E		zmano)		Position (D2)	
Inundation Visible on Aerial Imagery	√ (B7)				Shallow Aqu		
Water-Stained Leaves (B9)						raphic Relief (D4)	
Aquatic Fauna (B13)					FAC-Neutra		
Field Observations:							
Surface Water Present? Yes	No	Depth	(inches):				
Water Table Present? Yes	No	Depth	(inches):				
Saturation Present? Yes (includes capillary fringe)	No	_ Depth	(inches):	Wetland	Hydrology Prese	nt? Yes No	
Describe Recorded Data (stream gauge	, monitoring v	well, aeri	al photos, pr	revious inspections), if av	ailable:		
Remarks:							
no hydrology, gravel road							
lie Hydrology, graver road							

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

Sampling Point: wrae278\_u

20		Dominant I		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	_	
1. none				That Are OBL, FACW, or FAC:	0	(A)
2						
3				Total Number of Dominant Species Across All Strata:	0	(B)
				Species Across Ali Strata.		(D)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	0	(A/B)
6		-				
7				Prevalence Index worksheet:		
	0	= Total Cove		Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x 1	1 =	_
45	2070 01	total cover		FACW species x 2		
Sapling/Shrub Stratum (Plot size: 15	0			FAC species x 3		
1. none				-		
2				FACU species x 4		
3				UPL species x 5	5 =	_
4				Column Totals: (A)	)	_ (B)
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indicat	tors:	
7				1 - Rapid Test for Hydrophyti		
8						
9				2 - Dominance Test is >50%		
<u> </u>	0	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover:0				4 - Morphological Adaptation	ıs¹ (Provide sup	porting
	20% 01	total cover		data in Remarks or on a s	separate sheet)	
Herb Stratum (Plot size:5	0			Problematic Hydrophytic Veg	netation <sup>1</sup> (Explai	n)
1. none	0				, o.a (=, rp.a.	,
2				1		
3				<sup>1</sup> Indicators of hydric soil and wetla		nust
				be present, unless disturbed or p		
4				Definitions of Four Vegetation	Strata:	
5				Tree – Woody plants, excluding v	vines 3 in (7.6	cm) or
6				more in diameter at breast height		
7				height.	,, -3	
8						
9				Sapling/Shrub – Woody plants, of than 3 in. DBH and greater than of		
				m) tall.	Ji equal to 3.26	11 (1
10				m, cam		
11				Herb – All herbaceous (non-wood	dy) plants, regar	rdless
		= Total Cove		of size, and woody plants less that	an 3.28 ft tall.	
50% of total cover:0	20% of	total cover:_	0	Woody vine – All woody vines gr	rootor than 2 29	ft in
Woody Vine Stratum (Plot size:)				height.	leater than 5.20	11 111
1. none	0			g		
2.						
3						
4				Hydrophytic		
5				Vegetation		
	0 .	= Total Cove	r	Present? Yes	No	
50% of total cover: 0	20% of	total cover:_	0			
Remarks: (Include photo numbers here or on a separate sh	-					
No veg due to gravel road	,					

Sampling Point: wrae278\_u

Profile Desc	ription: (Describe t	o the depth r				or confirm	the abser	nce of indica	tors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_		_		
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remar	ks	
								<u> </u>			
			<del></del>					<del></del>			
								<del></del>			
								<del>_</del>			
							-				
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location	: PL=Pore Lii	ning, M=Mat	rix.	
Hydric Soil I							Inc	dicators for F	Problematic	Hydric So	ils³:
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck	(A10) <b>(MLR</b>	A 147)	
	pipedon (A2)	-	Polyvalue Be		ce (S8) <b>(N</b>	II RA 147.	148)	<del></del>	ie Redox (A	•	
Black His		-	Thin Dark Su				,	(MLRA 1		.0)	
	n Sulfide (A4)	-	Loamy Gleye	, ,	•	41, 140,			Toodplain Sc	sile (F10)	
	I Layers (A5)	-	Loanly Gleye Depleted Ma		1 2)			_ r ledillolit 1 (MLRA 1		)iis (1 1 <i>3)</i>	
	ck (A10) <b>(LRR N)</b>	-	Depleted Ma Redox Dark		·e)				w Dark Surf	000 (TE12)	
	Below Dark Surface	· (A11)						_ Very Shallo _ Other (Expl			
		(A11) _	Depleted Da					_ Other (Expi	alli ili Kellia	iks)	
	ark Surface (A12)	- -	Redox Depre			DD N					
	lucky Mineral (S1) (L	KK N,	Iron-Mangan		es (F12) <b>(</b> I	LKK N,					
	147, 148)		MLRA 13	-				3			
	leyed Matrix (S4)	-	Umbric Surfa					Indicators of		-	
	edox (S5)	-	Piedmont Flo					wetland hydr			
	Matrix (S6)	_	Red Parent N	/laterial (F	21) <b>(MLR</b> .	A 127, 147	<u>'</u> )	unless distur	bed or probl	ematic.	
Restrictive L	ayer (if observed):										
Type:			=								
Depth (inc	ches):						Hvdric S	Soil Present?	Yes	No	~
Remarks:	,		_								
	due to areval read										
Auger refusal	due to gravel road										



Upland data point wrae278\_u facing west



Upland data point wrae278\_u facing east

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

Project/Site: Atlantic Coast Pip	eline		City/C	ounty: Randolph County	,	Sampling Date: 7/11/2016			
Applicant/Owner: Dominion				State: WV Sampling Point: wrae279e					
Investigator(s): CG, JM		on, Township, Range: No							
Landform (hillslope, terrace, etc	c.): depression		Local reli	ef (concave, convex, nor	ne): concave	Slope (%): 3			
Subregion (LRR or MLRA): N		Lat:	38.59079851	Long: -80.	18511447	Datum: WGS 1984			
Soil Map Unit Name: Udorthen	ts, mudstone and	shale,	low base		NWI classifica	ation: PEM			
Are climatic / hydrologic conditi									
· · · · · ·						resent? Yes No			
Are Vegetation, Soil									
						, important features, etc.			
			ap one ming our	ipinig point location	ino, trancooto,	, important routuros, stor			
Hydrophytic Vegetation Prese	No. No.								
Hydric Soil Present?				within a Wetland?	Yes	No			
Wetland Hydrology Present? Remarks:	Yes _								
HYDROLOGY									
Wetland Hydrology Indicato	ors:				Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum		check	all that apply)		Surface Soil (				
Surface Water (A1)	or one is required.		True Aquatic Plants (	B14)	Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)				
High Water Table (A2)			Hydrogen Sulfide Od						
Saturation (A3)				es on Living Roots (C3)					
Water Marks (B1)			Presence of Reduced	I Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Thin Muck Surface (C						
Algal Mat or Crust (B4)			Other (Explain in Rer	narks)		ressed Plants (D1)			
Iron Deposits (B5)					Geomorphic I				
Inundation Visible on Aer					Shallow Aquit				
Water-Stained Leaves (E Aquatic Fauna (B13)	9)				FAC-Neutral	phic Relief (D4) Test (D5)			
Field Observations:					<u></u> 1710 1404141	1001 (100)			
Surface Water Present?	Yes No	~	Depth (inches):						
Water Table Present?				0					
Saturation Present?				0 Wetland H	Hydrology Present? Yes No				
(includes capillary fringe)									
Describe Recorded Data (stre	eam gauge, monito	oring w	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:									

Sampling F	Point: wrae279e_	_w
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	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0			Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
-		-		matrice GBE, Friend, GFFrie.
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				(/\begin{align*}
7.				Prevalence Index worksheet:
<i>I</i>	0	<del></del>		Total % Cover of: Multiply by:
50% of total cover: 0	:	= Total Cover	r O	OBL species 40 x 1 = 40
15	20% of	total cover:_		40
Sapling/Snrub Stratum (Plot size:)				FACW species X Z = 20
1. none	0	-		FAC species x 3 =
2				FACU species0 x 4 =0
3				UPL species0 x 5 =0
				Column Totals: 90 (A) 150 (B)
4		-		(b)
5				Prevalence Index = B/A = 1.66
6		-		Hydrophytic Vegetation Indicators:
7				
		·		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9		-		✓ 3 - Prevalence Index is ≤3.0¹
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				
1. Impatiens capensis	35	Yes	<b>FACW</b>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Glyceria striata	30	Yes	OBL	
3. Chelone glabra	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Boehmeria cylindrica	5	No	FACW	Definitions of Four Vegetation Strata:
5. Eutrochium purpureum	5	No	FAC	
6. Sambucus nigra	5	No	FAC	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				Herb – All herbaceous (non-woody) plants, regardless
	90	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover:		, , , ,
Woody Vine Stratum (Plot size:30)				Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
1. <u>hone</u>				
2		-		
3				
4				
5.		·		Hydrophytic Vegetation
o	0 :	<del></del>		Present? Yes No No
50% of total cover: 0		= Total Cove	_	
		total cover:_		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Profile Desc	ription: (Describe to	o the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	x Feature:	s			_
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-8	10YR 4/1	80	10YR 5/6	20	С	М	SCL	
			-		-			
			-					
					-			
			-		-			
¹Type: C=Co	oncentration, D=Deple	etion RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		J. 1011, 1 (11)		J-Machee	· Cana Ch	an 10.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)				cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be		CO (SS) /N	II R A 1/17		oast Prairie Redox (A16)
			Polyvalue Be				170) (	(MLRA 147, 148)
Black Hi	en Sulfide (A4)		Loamy Gleye			71, 140)	D	iedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		F2)		<u> </u>	(MLRA 136, 147)
					-6)		١,	ery Shallow Dark Surface (TF12)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(111)	Redox Dark S Depleted Dar	•	,			ery Shallow Dark Surface (TF12)  ther (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre					mer (Explain in Remarks)
		DD N	Redox Depre			I DD NI		
	lucky Mineral (S1) <b>(Li</b> <b>\ 147, 148)</b>	KK IN,	MLRA 136		es (F12) <b>(</b>	LKK N,		
				•	MI DA 42	c 400\	31 n d	inctors of hydrophytic vegetation and
	Sleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	riateriai (F	21) (WLK	A 127, 147	) un	less disturbed or problematic.
- roc	_ayer (if observed):							
Type: roc								
Depth (inc	ches): <u>6</u>		<del></del>				Hydric Soil	Present? Yes No
Remarks:								
Auger refusal	at 8 inches							



Wetland data point wrae279e\_w facing east



Wetland data point wrae279e\_w facing west

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

Project/Site: Atlantic Coast Pipeline		County: Randolph County	′	Sampling Date: 7/11/2016				
Applicant/Owner: Dominion			State: WV	Sampling Point: wrae279_u				
		on, Township, Range: No						
Landform (hillslope, terrace, etc.): Roa					Slope (%):2			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udorthents, muds	tone and shale	, low base	Long	NWI classific	cation: UPL			
Are climatic / hydrologic conditions on t								
Are Vegetation, Soil, or	Hydrology	significantly distu	rbed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes	No 🗸						
Hydric Soil Present?		No	Is the Sampled Area	Vaa	No 🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum 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 Oc		Dry-Season Water Table (C2) Soils (C6) Crayfish Burrows (C8)				
Saturation (A3)			• ,					
Water Marks (B1)		Presence of Reduce						
Sediment Deposits (B2)		Recent Iron Reduction						
Drift Deposits (B3)		Thin Muck Surface (			isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re	marks)		tressed Plants (D1)			
Iron Deposits (B5) Inundation Visible on Aerial Imag	ery (R7)			Shallow Aqu	Position (D2)			
Water-Stained Leaves (B9)	siy (D7)				aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
	No 🗸	Depth (inches):						
		Depth (inches):						
Saturation Present? Yes _		Depth (inches):		Wetland Hydrology Present? Yes No				
(includes capillary fringe)  Describe Recorded Data (stream gaue	ge, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:				
, ,			, ,,					
Remarks:								
no hydrology, gravel road								

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

Sampling Point: wrae279\_u

				Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	0	
1. none				That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	0	(B)
4						( )
				Percent of Dominant Species	0	
5				That Are OBL, FACW, or FAC:	0	(A/B)
6				Prevalence Index worksheet:		
7					Maritim Ira bara	
		= Total Cove		Total % Cover of:		
50% of total cover:0	20% of	total cover:_	0	OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2	2 =	_
1. none	0			FAC species x 3	3 =	_
				FACU species x 4	4 =	
2				UPL species x :		
3						
4				Column Totals: (A)	)	_ (B)
5				Prevalence Index = B/A =		
6						-
7				Hydrophytic Vegetation Indicat		
				1 - Rapid Test for Hydrophyt	ic Vegetation	
8				2 - Dominance Test is >50%	)	
9				3 - Prevalence Index is ≤3.0¹	1	
		= Total Cove		4 - Morphological Adaptation		porting
50% of total cover:0	20% of	total cover:_	0			porting
Herb Stratum (Plot size:5				data in Remarks or on a s	. ,	
1. none	0			Problematic Hydrophytic Veg	getation' (Explai	n)
2				<sup>1</sup> Indicators of hydric soil and wetl		nust
3				be present, unless disturbed or p	roblematic.	
4				<b>Definitions of Four Vegetation</b>	Strata:	
5						
6				<b>Tree</b> – Woody plants, excluding was more in diameter at breast height		
7				height.	t (DBH), regardi	ess oi
				noight.		
8				Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than o	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-wood	dy) plants, rega	rdless
	0	= Total Cove	r	of size, and woody plants less that		
50% of total cover:0	20% of	total cover:_	0	Marada da Allaca da Cara		0.1.
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines grapheight.	reater than 3.28	πın
1. none	0			neight.		
2						
3						
4				Hydrophytic		
5				Vegetation		
	0 .	= Total Cove	r	Present? Yes	No	
50% of total cover: 0	20% of	total cover:_	0			
Remarks: (Include photo numbers here or on a separate si						
Gravel road	,					

Sampling Point: wrae279\_u

Profile Desc	ription: (Describe to	o the depth	needed to docun	nent the in	dicator o	or confirm	the absenc	e of indicate	ors.)		
Depth	Matrix		Redo	K Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	S	_
							1				-
											-
											_
			_	·							
								<del>-</del>			-
											_
											_
							-				-
	·						1				_
								_			-
											-
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.		PL=Pore Lin			
Hydric Soil	ndicators:						Indi	cators for P	roblematic	Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (	(A10) <b>(MLR</b>	\ 147)	
	pipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147.		Coast Prairie	, ,	•	
Black Hi	. , ,		Thin Dark Su		. , .		-,	(MLRA 14		-,	
	n Sulfide (A4)		Loamy Gleye			, ,		Piedmont FI		ils (F19)	
	Layers (A5)		Depleted Mat		_,			(MLRA 1	•	()	
	ck (A10) (LRR N)		Redox Dark S		3)			Very Shallov		ice (TF12)	
	Below Dark Surface	(A11)	Depleted Dar					Other (Expla			
	ark Surface (A12)	()	Redox Depre					(=		,	
	lucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Mangan			RR N.					
	147, 148)	,	MLRA 13		o (, <b>(</b> -	,					
	leyed Matrix (S4)		Umbric Surfa		/II RA 130	6. 122)	<sup>3</sup> In	dicators of h	vdrophytic v	egetation and	
	edox (S5)		Piedmont Flo					etland hydro		-	
	Matrix (S6)		Red Parent N					nless disturb			
	ayer (if observed):		rear arenen	iatoriai (i Z	1) (IVILITY	1 121, 171	, u	THOSE GISTAIN	ou or proble	matio.	
	ayer (ii observed).										
Type:			<del>_</del>								
Depth (inc	ches):		_				Hydric So	il Present?	Yes	No	
Remarks:											
gravel road											



Upland data point wrae279\_u facing east



Upland data point wrae279\_u facing west

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

Project/Site: Atlantic Coast Pipeline	City/County: Rand	olph County	Sampling Date: 6/27/2016			
Applicant/Owner: Dominion			Sampling Point: wrae267e_w			
• •	Section, Township					
Landform (hillslope, terrace, etc.): road cut						
Subregion (LRR or MLRA): N			Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Dekalb stony comple	ex. moist. 35 to 70 percent slopes	NIMI alaasiis	Datum			
Are climatic / hydrologic conditions on the site typ						
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology	/ naturally problematic? (	If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach si	te map showing sampling point	nt locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes _	V No lo the Sam					
Hydric Soil Present? Yes _	is the Sampled Area					
	✓ No	- I es	No			
Remarks:						
Wetland within roadbed.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required;		Surface Soil	, ,			
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	<u>✓</u> Drainage Pa				
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		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)		tressed Plants (D1)			
Iron Deposits (B5)			Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui				
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>		FAC-Neutral	aphic Relief (D4)			
Field Observations:		- FAC-Neutral	169(D3)			
	Depth (inches):					
	Depth (inches): 0					
	Depth (inches): 0	Wetland Hydrology Presen	nt? Yes ✔ No			
(includes capillary fringe)	Deptit (inches)	Welland Hydrology Fresen	it: 165 NO			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspect	tions), if available:				
Remarks:						

,	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
·· <del>·</del>				That Aic OBE, I AOW, OI I AO.
2				Total Number of Dominant
3		·		Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:
6				, , ,
7				Prevalence Index worksheet:
· · ·	0	= Total Cover	,	Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species85 x 1 =85
15	20 /0 01	total cover		FACW species 20
Sapling/Shrub Stratum (Plot size: 13	0			FAC species0 x 3 =0
1. none		<del></del>		
2				FACU species x 4 = 0
3				UPL species
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.19
6				1 revalence mack = B/rt =
7				Hydrophytic Vegetation Indicators:
		· · ·		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0¹
0		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				
1. Scirpus atrovirens	50	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lupulina	35	Yes	OBL	
3. Impatiens capensis	10	No	FACW	¹Indicators of hydric soil and wetland hydrology must
4 Boehmeria cylindrica	10	No	FACW	be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
_				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		. <u>-</u>		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
	105	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5		total cover:		
Woody Vine Stratum (Plot size: 30 )	<u></u>	_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 none	0			height.
2.				
3				
4				Hydrophytic
5				Vegetation
		= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

	(2000	o ano dopan	needed to docur				i tile absei	ice of illuica	1013.)	
Depth	Matrix			x Features	_ 1	. ,	_		_	
(inches) Co	olor (moist)	<u>%</u>	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remar	ks
								<u> </u>		
								<u> </u>		
					,					
	_		<del></del>							
		<del></del>						<del></del>		
<sup>1</sup> Type: C=Concent		etion, RM=R	Reduced Matrix, MS	S=Masked S	Sand Gra	ins.		: PL=Pore Li		
Hydric Soil Indicat	tors:						In	dicators for	Problematic	: Hydric Soils <sup>3</sup> :
Histosol (A1)			Dark Surface	(S7)				2 cm Muck	(A10) (MLR	A 147)
Histic Epipedor	n (A2)		Polyvalue Be		(S8) <b>(M</b>	Ι R Δ 147	148)		ie Redox (A	
Black Histic (A:			Thin Dark Su				,		147, 148)	,
				, ,	•	47, 140)				-:l- ( <b>5</b> 40)
Hydrogen Sulfi			Loamy Gleye		<b>2</b> )		_		Floodplain So	olis (F19)
Stratified Layer			Depleted Ma						136, 147)	
2 cm Muck (A1			Redox Dark	•			_		w Dark Surf	
Depleted Below	v Dark Surface	(A11)	Depleted Da	k Surface (	F7)		_	Other (Exp	lain in Rema	ırks)
Thick Dark Sur	face (A12)		Redox Depre	ssions (F8)	١					
Sandy Mucky M	Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) <b>(I</b>	RR N,				
MLRA 147,	148)		MLRA 13	6)						
Sandy Gleyed			Umbric Surfa	•	ILRA 13	6. 122)	;	Indicators of	hvdrophytic	vegetation and
Sandy Redox (			Piedmont Flo					wetland hyd		-
Stripped Matrix			Red Parent N					unless distu		
			Neu Falelii i	naterial (FZ	I) (IVILIX	121, 141	<u>,                                      </u>	uriless distu	bed of probl	iemanc.
Restrictive Layer	(it observed):									
Type: gravel			<u> </u>							
Depth (inches):	0						Hydric S	Soil Present?	Yes	No
Remarks:										
		t O :								
No soil pit due to gra	avei and copple	at U inches								



Wetland data point wrae267e\_w facing west



Wetland data point wrae267e\_w facing north