

Seep data point PLEB103 facing south



Seep data point PLEA075 facing southeast



Seep point PUPB101 facing east

Project/Site: Atlantic Coast Pipe	eline	City/C	County: Upshur		Sampling Date: 7/20/2016
Applicant/Owner: Dominion				State: WV	Sampling Point: pupe002
Investigator(s): CG, AS			on, Township, Range:		
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA):					
Soil Map Unit Name:		····		NWI classif	cation: UPL
Are climatic / hydrologic condition		for this time of year? Y	∕es ✔ No (	If no, explain in l	Remarks.)
					present? Yes No
Are Vegetation, Soil					
					s, important features, etc.
				,	o,portant routuros, etc.
Hydrophytic Vegetation Prese		No	Is the Sampled Area		
Hydric Soil Present?		No No	within a Wetland?	Yes	No
Wetland Hydrology Present?  Remarks:	Yes	NO			
Toe of slope seep in upland ha Buckhannon River. Roadside o		is seeping through the	boulders and gravel, then	ı flows under the	road northwest to the
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum o	of one is required; che	ck all that apply)		Surface Soi	l Cracks (B6)
✓ Surface Water (A1)	_	_ True Aquatic Plants (	(B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)		_ Hydrogen Sulfide Od		_	atterns (B10)
Saturation (A3)			• , ,	Moss Trim I	
Water Marks (B1)		Presence of Reduced		-	Water Table (C2)
Sediment Deposits (B2)		_ Recent Iron Reduction		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	пагкѕ)		Stressed Plants (D1)
<ul><li>Iron Deposits (B5)</li><li>Inundation Visible on Aeri</li></ul>	ial Imagery (B7)			Shallow Aq	c Position (D2)
Water-Stained Leaves (B)	• • • •				raphic Relief (D4)
Aquatic Fauna (B13)	3)			FAC-Neutra	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):	1		
Water Table Present?	Yes No		0		
Saturation Present?	Yes / No		0 Wetland H	ydrology Prese	nt? Yes ✓ No
(includes capillary fringe)					
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, pre	evious inspections), if avai	ilable:	
Remarks:	_				
romano.					

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

\_\_)

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

50% of total cover: 12.5

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

0 = Total Cover

20% of total cover:

30

Tree Stratum (Plot size: \_\_\_

1. Betula alleghaniensis

Herb Stratum (Plot size: \_ 1. Impatiens capensis

3. Viola canadensis

3. Acer rubrum

2. Tsuga canadensis

Sapling/Shrub Stratum (Plot size: 15

1. none

ames of	plants.		Sampling Poi	nt: <u><sup>pupe002</sup></u>	
Absolute	Dominant		Dominance Test worksheet:		
% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	5	(A)
			Total Number of Dominant Species Across All Strata:	6	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	83.33333333	(A/B)
			Prevalence Index worksheet:		
0		•	Total % Cover of:	Multiply by:	
	= Total Cove	er O	OBL species 0 x 1		
20% 01	total cover:_		FACW species 10 x 2	20	_
15	Yes	FAC	FAC species 35 x 3	105	_
5	Yes	FACU	FACU species 5 x 4	20	_
<u>5</u>	Yes	FAC	UPL species 0 x 5	0	_
			Column Totals: 50 (A)	145	_ _ (B)
			Prevalence Index = B/A =	2.9	_
			Hydrophytic Vegetation Indicat	ors:	
			1 - Rapid Test for Hydrophyti	c Vegetation	
			2 - Dominance Test is >50%		
25	Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	= Total Cove total cover:	5	4 - Morphological Adaptation	s <sup>1</sup> (Provide sup	porting
	1010. 0010.1 <u>-</u>		data in Remarks or on a s	eparate sheet)	
10	Yes	FACW	Problematic Hydrophytic Veg	jetation¹ (Explai	n)
10	Yes	FAC			
5	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or present.		nust
			Definitions of Four Vegetation	Strata:	
			Tree – Woody plants, excluding v more in diameter at breast height height.		
		<u> </u>	Sapling/Shrub – Woody plants, 6 than 3 in. DBH and greater than cm) tall.		
	= Total Cove		Herb – All herbaceous (non-wood of size, and woody plants less that		rdless
_	total cover:_	5	Woody vine – All woody vines gr height.	eater than 3.28	ft in
0			Hydrophytic Vegetation		
			Present? Yes	No	

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

50% of total cover: \_\_\_0

Woody Vine Stratum (Plot size: \_\_\_\_\_)

1. none

2. Microstegium vimineum

SOIL Sampling Point: Pupe002

Profile Desc	cription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirm	the ab	sence of indicat	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture	Remarks	
							-	<del></del>		
			_							
										-
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Locat	ion: PL=Pore Lin	ning, M=Matrix.	
Hydric Soil								Indicators for P		Iric Soils³:
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (	(A10) <b>(MLRA 14</b>	7)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	LRA 147,	148)	Coast Prairi	. , .	,
	istic (A3)		Thin Dark Su				•	(MLRA 1	, ,	
Hydroge	en Sulfide (A4)		Loamy Gley					Piedmont FI	oodplain Soils (	F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 1	36, 147)	
	uck (A10) (LRR N)		Redox Dark	Surface (F	6)				w Dark Surface	(TF12)
	d Below Dark Surface	(A11)	Depleted Da					Other (Expla	ain in Remarks)	
	ark Surface (A12)		Redox Depre							
	/lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangar		es (F12) <b>(</b> I	_RR N,				
	A 147, 148)		MLRA 13					3		
	Bleyed Matrix (S4)		Umbric Surfa						nydrophytic vege	
-	Redox (S5)		Piedmont Flo						ology must be pr	
	Matrix (S6)		Red Parent I	Material (F	21) <b>(MLR</b> .	A 127, 147	7)	unless disturb	oed or problema	tic.
	Layer (if observed):									
Type:			_							,
Depth (in	ches):		_				Hydr	ic Soil Present?	Yes	No
Remarks:										
Soil sample n	ot taken due to bould	ers and grave	el.							



Seep data point pupe002 facing south



Seep point PUPA009 facing north



Seep point PUPB004 facing east



Seep point PUPB102 facing west



Seep point PRAB001 facing east



Seep point PRAB101 facing southeast



Seep point PRAB103 facing west



Seep point PRAB102 facing east

Project/Site: Atlantic Coast Pipeline	C	City/County: Randolph		_ Sampling Date: 12/4/2015
Applicant/Owner: DOMINION		, , <u> </u>		
Toom C	s			
Landform (hillslope, terrace, etc.): Seep	Loca	al relief (concave, convex, no	ne): none	Slope (%): 10
Subregion (LRR or MLRA):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the				
Are Vegetation, Soil, or H				
Are Vegetation, Soil, or F				
SUMMARY OF FINDINGS – At				
			<u> </u>	· ·
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area		
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No
Remarks:				
LIVERGLOOV				
HYDROLOGY			C	
Wetland Hydrology Indicators:	required, about all that apply			cators (minimum of two required)
Primary Indicators (minimum of one is r		ento (D14)	Surface Soi	
Surface Water (A1)  High Water Table (A2)	True Aquatic Pla Hydrogen Sulfide		Sparsely ve ✓ Drainage P.	egetated Concave Surface (B8)
Saturation (A3)		pheres on Living Roots (C3)	Moss Trim	
Water Marks (B1)	Presence of Red			Water Table (C2)
Sediment Deposits (B2)		luction in Tilled Soils (C6)	Crayfish Bu	
Drift Deposits (B3)	Thin Muck Surfa		-	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in	n Remarks)	Stunted or	Stressed Plants (D1)
Iron Deposits (B5)				c Position (D2)
Inundation Visible on Aerial Imagei	ry (B7)		Shallow Aq	
Water-Stained Leaves (B9)				raphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutra	al Test (D5)
Field Observations: Surface Water Present? Yes	No Depth (inches):			
	No Depth (inches):			
	No Depth (inches):		Hydrology Prese	ent? Yes ✔ No
(includes capillary fringe)				
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if ava	ailable:	
Remarks:				

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

00	Absolute Domina	ant Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover Specie	es? Status	Number of Dominant Species		
1			That Are OBL, FACW, or FAC:	0 (A)	(،
2			Total Novels and Description		
3			Total Number of Dominant Species Across All Strata:	0 (B)	۱)
		<del></del>	opeoles / toross / tir etrata.	(D)	,
4		<del></del>	Percent of Dominant Species	0	
5			That Are OBL, FACW, or FAC:	0 (A/	/B)
6			Prevalence Index worksheet:		
7				Multiply by	
_	= Total (		Total % Cover of:		
50% of total cover:0	20% of total co	ver:0	OBL species x 1		
Sapling/Shrub Stratum (Plot size: 15			FACW species x 2		
1			FAC species x 3	3 =	
2			FACU species x 4	1 =	
3			UPL species x 5	5 =	
			Column Totals: (A)		B)
4			( )		-,
5			Prevalence Index = B/A =		
6			Hydrophytic Vegetation Indicat	ors:	
7			1 - Rapid Test for Hydrophyti		
8			2 - Dominance Test is >50%	=	
9					
	0 = Total 0	Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover:0	20% of total co	ver: 0	4 - Morphological Adaptation		ting
Herb Stratum (Plot size: 5 )			data in Remarks or on a s	•	
			Problematic Hydrophytic Veg	jetation¹ (Explain)	
1					
2			<sup>1</sup> Indicators of hydric soil and wetla	and hydrology must	it
3			be present, unless disturbed or pr		
4			Definitions of Four Vegetation	Strata:	
5		<u> </u>			
6			Tree – Woody plants, excluding v		
7			more in diameter at breast height height.	(DBH), regardless	OI
8			g		
			Sapling/Shrub – Woody plants, e		
9			than 3 in. DBH and greater than on the m) tall.	or equal to 3.28 ft (1	1
10			Try tail.		
11		<del></del>	Herb – All herbaceous (non-wood		SS
0	0 = Total (		of size, and woody plants less that	an 3.28 ft tall.	
50% of total cover: 0	20% of total co	ver: 0	Woody vine - All woody vines gr	reater than 3.28 ft in	n
Woody Vine Stratum (Plot size:)			height.		
1					
2					
3					
4					
5			Hydrophytic Vegetation		
o	0 = Total (		Present? Yes	No 🗸	
50% of total cover:		^			
00 /0 01 total 00 vc1.	20% of total co	vei			
Remarks: (Include photo numbers here or on a separate s	heet.)				
No vegetation present					

SOIL Sampling Point: prac100

Profile Desc	ription: (Describe to	the depth i	needed to docun	ent the ir	ndicator	or confirm	the absenc	e of indicato	rs.)	
Depth	Matrix			c Features						
(inches)	Color (moist)		Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-16	2.5 Y 4/4	100					SL	30% grave	l throughout	
								_		_
			_				•	-		
							·			
								_		
										_
							-			
							-			
			·				2	_		
	oncentration, D=Deple	tion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ins.		PL=Pore Linin		
Hydric Soil	Indicators:						Indi	cators for Pro	oblematic Hydr	ic Soils³:
Histosol	(A1)	-	Dark Surface						(10) <b>(MLRA 147</b>	)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(M</b>	LRA 147,	148)	Coast Prairie	Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147	7, 148)	
	n Sulfide (A4)	-	Loamy Gleye	d Matrix (F	<sup>-</sup> 2)		_	Piedmont Flo	odplain Soils (F1	19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136	6, 147)	
2 cm Mu	ıck (A10) (LRR N)		Redox Dark S	Surface (F	6)				Dark Surface (T	F12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain	n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) <b>(LF</b>	RR N,	Iron-Mangane		s (F12) <b>(I</b>	_RR N,				
	\ 147, 148)		MLRA 136	6)						
Sandy G	Gleyed Matrix (S4)	•	Umbric Surfa						drophytic vegeta	
	tedox (S5)		Piedmont Flo					etland hydrol	ogy must be pre	sent,
	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(MLR</b>	A 127, 147	<b>7)</b> u	nless disturbe	ed or problemation	Э.
Restrictive I	_ayer (if observed):									
Type:			_							
Depth (inc	ches):						Hvdric So	il Present?	Yes	No 🗸
Remarks:	,		_						<u> </u>	
No hydric soil	procent									
ivo riyuric son	present									



Photo 1 Seep data point PRAC100 facing northwest

Project/Site: Atlantic Coast Pipeline		City/C	county: Randolph		Sampling Date: 1/16/2016
Applicant/Owner: DOMINION	· · · · · · · · · · · · · · · · · · ·		-		Sampling Point: prac102
Investigator(s): Team C			on, Township, Range:		
Landform (hillslope, terrace, etc.): Se	еер	Local rel	ief (concave, convex, nor	ne): none	Slope (%): 5
Subregion (LRR or MLRA):					
Soil Map Unit Name:					
Are climatic / hydrologic conditions or					
Are Vegetation, Soil,					
Are Vegetation, Soil,					
SUMMARY OF FINDINGS –					
SOMMANT OF THE DINGS -	Attach Site in	ap snowing san	ipinig point locatio	ms, transect	s, important reatures, etc.
Hydrophytic Vegetation Present?		_ No	Is the Sampled Area		
Hydric Soil Present?		_ No	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	_ No			
Remarks: seep					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one	is required; check	call that apply)		Surface Soi	l Cracks (B6)
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Ve	egetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Pa	atterns (B10)
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim I	ines (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)		Thin Muck Surface (0	27)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)
✓ Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aq	uitard (D3)
Water-Stained Leaves (B9)				Microtopogi	aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	Il Test (D5)
Field Observations:	_				
	No				
	No		0		
	No	Depth (inches):	0 Wetland H	lydrology Prese	nt? Yes V No No
(includes capillary fringe)  Describe Recorded Data (stream ga	auge, monitoring w	vell, aerial photos, pre	vious inspections), if ava	ilable:	
, ,	<i>3</i> / 3		, ,,		
Remarks:					
Wetland hydrology indicators preser	nt				

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

	Absolute	Dominant I		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	0	
1				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 harr	
		= Total Cove	r	Total % Cover of:		
50% of total cover:0	20% of	total cover:_	0	OBL species x 1	1 =	_
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2	2 =	_
1				FAC species x 3	3 =	_
				FACU species x 4	4 =	
2				UPL species x 5		
3						
4				Column Totals: (A)	)	_ (B)
5				Provolence Index - D/A		
6				Prevalence Index = B/A =		_
7				Hydrophytic Vegetation Indicat		
				1 - Rapid Test for Hydrophyti	ic Vegetation	
8				2 - Dominance Test is >50%	,	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	ı	
	0	= Total Cove	r	4 - Morphological Adaptation		norting
50% of total cover:0	20% of	total cover:_	0			porting
Herb Stratum (Plot size: 5				data in Remarks or on a s	• /	
1				Problematic Hydrophytic Veg	getation¹ (Expla	in)
2				<sup>1</sup> Indicators of hydric soil and wetla	and hydrology r	nust
3				be present, unless disturbed or pr		
4				Definitions of Four Vegetation	Strata:	
5				3		
6				Tree – Woody plants, excluding v		
				more in diameter at breast height	ւ (DBH), regardl	ess of
7				height.		
8				Sapling/Shrub – Woody plants, e	excluding vines	, less
9				than 3 in. DBH and greater than of		
10				m) tall.		
11.				Herb – All herbaceous (non-wood	dy) plante roga	rdlocc
	0 .	= Total Cove		of size, and woody plants less that		luless
50% of total cover:		total cover:_		, prante and		
Woody Vine Stratum (Plot size: 30 )	2070 0.			Woody vine – All woody vines gr	reater than 3.28	ft in
				height.		
1						
2						
3						
4						
5				Hydrophytic Vegetation		
	•	= Total Cove		Present? Yes	No 🗸	
50% of total cover: 0		total cover:_	_			
00 /0 01 total 00 vol.		lotal cover	_			
Remarks: (Include photo numbers here or on a separate sl	neet.)					
No vegetation						

L						ampling Po	oint: Prac 102
file Description: (Des	cribe to the depth	needed to document the indi	icator or confirm	the absence	of indicate	ors.)	
pth <u>Ma</u>	atrix	Redox Features					
ches) Color (mo		Color (moist) % T	Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-12 2.5 Y 4/1	100			SL	20% grave	el throughout	
	<del></del>		<del></del>				
<del></del> -					-		
		<del></del>	<del></del>				
				<del></del>			
<del></del>							
C Ctt	Domintion DM F	Dadward Matrix MC Manhad Ca		21		- NA NA-t-i	
	J=Depletion, Rivi=R	Reduced Matrix, MS=Masked Sa	and Grains.			ng, M=Matrix.	
Iric Soil Indicators:						oblematic Hy	
Histosol (A1)		Dark Surface (S7)			cm Muck (A	410) <b>(MLRA 1</b>	47)
Histic Epipedon (A2)		Polyvalue Below Surface (	(S8) (MLRA 147,	<b>148)</b> C	oast Prairie	Redox (A16)	
Black Histic (A3)		Thin Dark Surface (S9) (M			(MLRA 14		
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		Р	•	odplain Soils	(F19)
Stratified Layers (A5)		Depleted Matrix (F3)		<u> </u>	(MLRA 13		(1.10)
• , ,	) AI\			١,		Dark Surface	(TE40)
2 cm Muck (A10) (LRF		Redox Dark Surface (F6)	<b>-</b> 7\		•		. ,
Depleted Below Dark S		Depleted Dark Surface (F7	7)	0	ther (Expla	in in Remarks	)
Thick Dark Surface (A		Redox Depressions (F8)					
Sandy Mucky Mineral	(S1) <b>(LRR N</b> ,	Iron-Manganese Masses (	(F12) <b>(LRR N,</b>				
MLRA 147, 148)		MLRA 136)					
Sandy Gleyed Matrix (	S4)	Umbric Surface (F13) (ML	.RA 136. 122)	<sup>3</sup> Ind	icators of h	ydrophytic veg	etation and
Sandy Redox (S5)	,	Piedmont Floodplain Soils				logy must be i	
Stripped Matrix (S6)		Red Parent Material (F21)			-	ed or problem	
		Red i alent Material (i 21)	(WILKA 121, 141	) un	icas distuib	ed of problem	alic.
strictive Layer (if obse	rvea):						
Type: Rock		<u>—</u>					
Depth (inches): 12		<u></u>		Hydric Soil	Present?	Yes	No_
narks:							-
ydric soil indicators pre	sent						



Photo 1 Seep data point prac102



Seep data point PRAA485 facing northwest



Seep data point PRAA488 facing north



Seep data point PRAA483 facing west

Project/Site: Atlantic Coast Pipeline	City/C	county: Randolph	Sampling Date: 1/16/2016
Applicant/Owner: DOMINION		State: V	·
T 0	Section		
Landform (hillslope, terrace, etc.): Seep		· · · · · · · · · · · · · · · · · · ·	Slope (%): <u>5</u>
			Datum:
Soil Map Unit Name:			
Are climatic / hydrologic conditions on th			
			ances" present? Yes No
Are Vegetation, Soil, or H			
SUMMARY OF FINDINGS – At	ttach site map showing sam	npling point locations, tran	sects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	In the Oneseled Asses	
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland? Yes	s No
Wetland Hydrology Present?	Yes No	Willing a Wolland .	<u> </u>
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			y Indicators (minimum of two required)
Primary Indicators (minimum of one is			ace Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (		sely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		nage Patterns (B10)
Saturation (A3) Water Marks (B1)	<ul><li>Oxidized Rhizosphero</li><li>Presence of Reduced</li></ul>		s Trim Lines (B16) Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio		fish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C		ration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren		ted or Stressed Plants (D1)
Iron Deposits (B5)			morphic Position (D2)
Inundation Visible on Aerial Image	ery (B7)	Shall	ow Aquitard (D3)
Water-Stained Leaves (B9)			otopographic Relief (D4)
Aquatic Fauna (B13)		<u>✓</u> FAC-	Neutral Test (D5)
Field Observations:			
	No Depth (inches):	0	
	No Depth (Inches):	0	
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydrology	Present? Yes No
Describe Recorded Data (stream gaug	ge, monitoring well, aerial photos, pre	vious inspections), if available:	
Daywell a			
Remarks: Wetland hydrology indicators present			
Trouble Hydrology maleutere process.			

Samp	lina	Point:	prac103
Samo	111 1( 1	COUL	p. a.c . c c

00	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Nevel on of Developed
3				Total Number of Dominant Species Across All Strata:  1 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
	=	= Total Cover		Total % Cover of: Multiply by:  ORL species 50 x 1 = 50
	20% of	total cover:	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species 20 x 3 = 60
				FACU species0 x 4 =0
2				UPL species
3				80 130
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.62
6				1 Tevalence mack = B/T(=
7		_	_	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0¹
0	=	= Total Cover	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	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. Scirpus georgianus	50	Yes	OBL	Problematic Hydrophytic Vegetation (Explain)
2. Athyrium angustum	10	No	FAC	
3. Dichanthelium clandestinum	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Juncus effusus	10	No	FACW	be present, unless disturbed or problematic.
"				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.				
··· <u> </u>	80	- Total Cover		Herb – All herbaceous (non-woody) plants, regardless
	=	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40	=	= Total Cover total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
	=			of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40	= 20% of	total cover:		of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover: 40 Woody Vine Stratum (Plot size: 30 )	20% of	total cover:		of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover:40  Woody Vine Stratum (Plot size:30)  1	20% of	total cover:		of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover:40  Woody Vine Stratum (Plot size:30)  1 2 3	20% of	total cover:		of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
50% of total cover:40  Woody Vine Stratum (Plot size:30)  12 34	20% of	total cover:		of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic
50% of total cover:40  Woody Vine Stratum (Plot size:30)  1 2 3	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:40  Woody Vine Stratum (Plot size:30)  1 2 3 4 5	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:40 <u>Woody Vine Stratum</u> (Plot size:30)  1 2 3 4 5	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
50% of total cover:	20% of	total cover:	16	of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation

Cilie Dest	crintion: (Describe t	n the denth n	eeded to docum	nent the indicator or co	nfirm the ah	sence of indicate	ore i	
		o ano acpuii ii			au	scribe or indicati	J. J. J	
epth	Matrix Color (moist)	% (	Redo Color (moist)	x Features % Type <sup>1</sup> Lo	c <sup>2</sup> Text		Remarks	
nches) 0-12	2.5 Y 4/1	100	20101 (IIIOISI)		S		el throughout	
0-12	2.3 1 4/1					20% grav	ertinougnout	
00: C-C	oncentration D-Denk	ation PM-Rec	Jucad Matrix MS	S=Masked Sand Grains.	<sup>2</sup> l ocat	ion: PL=Pore Lin	ing M-Matrix	
	Indicators:	ellon, Kivi–Ket	duced Matrix, Mc	D-Masked Sand Grains.	Local	Indicators for P		dric Saile <sup>3</sup> :
							_	
Histosol		_	_ Dark Surface			2 cm Muck (		17)
	pipedon (A2)	_		low Surface (S8) (MLRA		Coast Prairie		
Black Hi	istic (A3)	_	_ Thin Dark Su	rface (S9) (MLRA 147, 1	48)	(MLRA 14	l7, 148)	
Hydroge	en Sulfide (A4)	_	Loamy Gleye	ed Matrix (F2)		Piedmont Fl	oodplain Soils (	F19)
Stratified	d Layers (A5)	_	Depleted Ma	trix (F3)		(MLRA 13	36, 147)	
	uck (A10) (LRR N)		Redox Dark				v Dark Surface	(TF12)
	d Below Dark Surface	(A11)		k Surface (F7)			in in Remarks)	` ,
	ark Surface (A12)	. , _	Redox Depre			_ ` .	,	
	/lucky Mineral (S1) <b>(L</b>	RR N.		ese Masses (F12) <b>(LRR</b>	N.			
	A 147, 148)		MLRA 13		••,			
					2)	3Indicators of b	vdrophytic voc	atation and
	Gleyed Matrix (S4)	-		ce (F13) (MLRA 136, 12			ydrophytic vege	
-	Redox (S5)	_		odplain Soils (F19) (MLF		-	ology must be p	
	l Matrix (S6)	_	Red Parent N	Material (F21) <b>(MLRA 127</b>	7, 147)	unless disturb	ed or problema	itic.
strictive	Layer (if observed):							
Type: Ro	OCK							
Depth (in	ches): <u>12</u>				Hydri	ic Soil Present?	Yes	No 🗸
					1,			
narks:								
ydric soil	I indicators present							
ydric soii	I indicators present							
ydric soi	l indicators present							
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Photo 1 Seep data point prac103 facing west



Seep data point PRAA482 facing south



Seep data point PRAA481 facing south

Project/Site: Atlantic Coast Pipeline	City/(	County: Randolph	Sampling Date: 1/16/2016				
Applicant/Owner: DOMINION	-	State: WV	Sampling Point: prac104				
Investigator(s): Team C		on, Township, Range:					
Landform (hillslope, terrace, etc.): Se		lief (concave, convex, none): none					
· · · · · · · · · · · · · · · · · · ·		Long: -80.112473					
Soil Map Unit Name:		NWI class					
•		Yes No (If no, explain in	<u></u>				
		rbed? Are "Normal Circumstances					
		atic? (If needed, explain any ans					
SUMMARY OF FINDINGS –	Attach site map showing san	npling point locations, transed	ts, important features, etc.				
Hydrophytic Vegetation Present?	Yes No_ 🗸						
Hydric Soil Present?	Yes No_ 🗸	Is the Sampled Area within a Wetland? Yes	No				
Wetland Hydrology Present?	Yes No	within a Wetland?	NO				
Remarks:		l					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)				
Primary Indicators (minimum of one	is required; check all that apply)	Surface S	Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants	(B14) Sparsely \	Sparsely Vegetated Concave Surface (B8)				
✓ High Water Table (A2)	Hydrogen Sulfide Oc	dor (C1) Drainage	Patterns (B10)				
Saturation (A3)	Oxidized Rhizospher	Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)					
Water Marks (B1)	Presence of Reduce	Presence of Reduced Iron (C4) Dry-Season Water Table (C2)					
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)					
Drift Deposits (B3)	Thin Muck Surface (		Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re		r Stressed Plants (D1)				
Iron Deposits (B5)	(DZ)		nic Position (D2)				
Inundation Visible on Aerial Ima	igery (B7)		Shallow Aquitard (D3) Microtopographic Relief (D4)				
Water-Stained Leaves (B9) Aquatic Fauna (B13)		✓ FAC-Neut					
Field Observations:		<u> </u>	rai rest (D3)				
	No Depth (inches):						
	No Depth (inches):	0					
	No Depth (inches):	0 Wetland Hydrology Pres	sent? Yes V No				
(includes capillary fringe)							
Describe Recorded Data (stream ga	auge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:							
Wetland hydrology indicators presen	ıt						

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

00	Absolute Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species?	<u>Status</u>	Number of Dominant Species
1			That Are OBL, FACW, or FAC:0 (A)
2			Total Number of Dominant
3			Species Across All Strata: 0 (B)
4			Demonstrat Demoissant Operation
5			Percent of Dominant Species That Are OBL FACW or FAC:  0 (A/B)
			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			
	0 = Total Cover		Total % Cover of: Multiply by:
50% of total cover:0			OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )			FACW species0 x 2 =0
			FAC species 0 x 3 = 0
1			
2			FACU species x 4 =
3			UPL species0 x 5 =0
			Column Totals: (A) (B)
4			(3)
5			Prevalence Index = B/A =0
6			
			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
8			2 - Dominance Test is >50%
9			
	0 = Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20 /0 OI total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1			1 Toblemate Tryarophytic Vegetation (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			
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
	0 = Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:0	20% of total cover:	0	W 1 1 0006
Woody Vine Stratum (Plot size:)			<b>Woody vine</b> – All woody vines greater than 3.28 ft in
			height.
1			
2			
3			
4			
			Hydrophytic
5	<del></del>		Vegetation
	0 = 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 No vegetation	neet.)		

	cription: (Describe	to the depth	needed to docu	ment the indicator or o	onfirm the ab	conce or maious	•	
epth	Matrix		Redo	ox Features				
ches)	Color (moist)	%	Color (moist)		.oc <sup>2</sup> Text		Remarks	
0-4	10 YR 4/3	100			S	L 20% grav	el throughout	
4-18	2.5 Y 4/3	100			<u></u>	 I		
-10	2.0 1 4/0					<u> </u>		
	-							
	-							
	-							
e. C-C	oncentration D-Den	Metion RM-F	Peduced Matrix M	S=Masked Sand Grains	<sup>2</sup> l ocat	ion: PL=Pore Lin	ing M-Matrix	
	Indicators:	neuon, rawi–r	icaacca matrix, m	O-Masked Dana Oralina	. Locat	Indicators for P		dric Soils
			D 1 - 0 (	- (07)			_	
Histoso			Dark Surface			2 cm Muck		17)
	pipedon (A2)			elow Surface (S8) (MLR		Coast Prairi		
	istic (A3)			urface (S9) (MLRA 147,	148)	(MLRA 1		
	en Sulfide (A4)			ed Matrix (F2)			oodplain Soils (	F19)
	d Layers (A5)		Depleted Ma			(MLRA 1	•	
	uck (A10) (LRR N)		Redox Dark				w Dark Surface	(TF12)
	d Below Dark Surfac	e (A11)		rk Surface (F7)		Other (Expla	ain in Remarks)	
	ark Surface (A12)		Redox Depr					
Sandy I	Mucky Mineral (S1) (I	LRR N,	Iron-Mangar	nese Masses (F12) (LRF	R N,			
MLR	A 147, 148)		MLRA 13	36)				
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(MLRA 136, 1</b>	22)	<sup>3</sup> Indicators of h	ydrophytic vege	etation and
Sandy F	Redox (S5)		Piedmont Fl	oodplain Soils (F19) (MI	RA 148)	wetland hydro	ology must be p	resent,
Stripped	d Matrix (S6)		Red Parent	Material (F21) (MLRA 1	27, 147)	unless disturb	oed or problema	ıtic.
strictive	Layer (if observed)	•						
Type: R	ock `							
Conth (in	ches): 12				Llyrala	ic Soil Present?	Vac	No_
			<u> </u>		пуаг	ic Soil Present?	Yes	NO
narks:								
ydric soi	I indicators present							



Photo 1 Seep data point prac104 facing south

Project/Site: Atlantic Coast Pipeline		City/C	County: Randolph		_ Sampling Date: 1/16/2016			
Applicant/Owner: DOMINION	State: WV			Sampling Point: prac105				
T 0			on, Township, Range:					
Landform (hillslope, terrace, etc.): See			· · · · · · · · · · · · · · · · · · ·		Slope (%): <u>5</u>			
· · · · · · · · · · · · · · · · · · ·		t: 38.715702 Long:80.112575						
Soil Map Unit Name:								
Are climatic / hydrologic conditions on								
Are Vegetation, Soil, o								
Are Vegetation, Soil, o								
SUMMARY OF FINDINGS – A	Attach site ma	ap snowing san	npling point location	ons, transect	s, important features, etc.			
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area					
Hydric Soil Present?		No	within a Wetland?	Yes	No			
Wetland Hydrology Present?	Yes	No						
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary India	cators (minimum of two required)			
Primary Indicators (minimum of one i	s required; check	all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		True Aquatic Plants (		Sparsely V	egetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage P				
Saturation (A3)			es on Living Roots (C3)	Moss Trim	, ,			
Water Marks (B1)		Presence of Reduced Iron (C4) Dry-Season Water Table ( Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)						
Sediment Deposits (B2)				-	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (0 Other (Explain in Rer			Stressed Plants (D1)			
Iron Deposits (B5)	<u> </u>	Other (Explain in Nei	nansj	· · · · · · · · · · · · · · · · · · ·	c Position (D2)			
Inundation Visible on Aerial Imag	gery (B7)			Shallow Aq				
Water-Stained Leaves (B9)	, , ,				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				✓ FAC-Neutra	al Test (D5)			
Field Observations:								
	No							
	<b>∨</b> No		0					
Saturation Present? Yes _ (includes capillary fringe)	✓ No	Depth (inches):	0 Wetland H	Hydrology Prese	ent? Yes V No			
Describe Recorded Data (stream gau	ge, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:				
Remarks: Wetland hydrology indicators present								
wettand flydrology indicators present								

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

Sampling Point: prac105

30	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:30) 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Bound of Bourboat On a size
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
6	-			Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cove	_	OBL species 0 x 1 = 0
50% of total cover: 0	20% of	total cover:_		FACW species
Sapling/Shrub Stratum (Plot size:)				FAC species
1,				FACU species
2				UPL species 0 x 5 = 0
3				Column Totals: 0 (A) 0 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =0
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	0	T-1-1-0		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0		= Total Cover	r 0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5	20 /6 01	total cover		data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8 9.				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				,
· · ·	0	= Total Cove	<del></del>	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:		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				
<b>r</b>				Hydrophytic Vegetation
5	0	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:_	^	
Remarks: (Include photo numbers here or on a separate s		· <u>-</u>		
No vegetation	,			

SOIL Sampling Point: prac105

Profile Desc	ription: (Describe to	the depth	needed to docun	nent the in	dicator	or confirm	the absence	e of indicators.)
Depth	Matrix			K Features	<b>-</b> 1	. 2	_	5
(inches)	Color (moist) 10 Y 4/3	<u>%</u>	Color (moist)	<u>%</u> 1	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	Remarks
0-18	10 1 4/3	99 1	0 YR 4/6		С	PL		
								·
							-	
							-	
			_					
							-	
<sup>1</sup> Type: C=Ce	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			:	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		ا	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				(	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (Li	RR N,	Iron-Mangane		s (F12) <b>(</b> I	LRR N,		
	A 147, 148)		MLRA 130				3,	
	Sleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	iateriai (F2	1) (WLR	A 127, 147	) ui	nless disturbed or problematic.
Restrictive i	_ayer (if observed):							
Type: Ro								.,
Depth (in	ches): 12		_				Hydric Soi	il Present? Yes No
Remarks:								
No hydric soil	indicators present							



Photo 1 Seep data point prac105 facing north

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

Project/Site: Atlantic Coast Pipeline	City/County: Randolph		Sampling Date: 3/1/2016				
Applicant/Owner: Dominion		State: WV Sampling Point:					
Investigator(s): GB, AS, CG Section, Township, Range:							
Landform (hillslope, terrace, etc.): slope	Local relief (concave, convex		Slope (%): 35				
Subregion (LRR or MLRA):							
Are climatic / hydrologic conditions on the site typic		<u>-</u>	<u></u>				
Are Vegetation, Soil, or Hydrology	·						
Are Vegetation, Soil, or Hydrology							
SUMMARY OF FINDINGS – Attach sit	e map snowing sampling point loca	ations, transects	s, important features, etc.				
	No Is the Sampled Ar	ea					
	No within a Wetland?		No				
Wetland Hydrology Present? Yes	No						
Remarks: Seep originating from an old road cut on a steep,							
HYDROLOGY							
Wetland Hydrology Indicators:	_	Secondary Indica	ators (minimum of two required)				
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil					
✓ Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Saturation (A3)	Roots (C3) Moss Trim Lines (B16)						
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)						
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		Microtopographic Relief (D4) FAC-Neutral Test (D5)					
Aquatic Fauna (B13)		FAC-Neutral	1 Test (D5)				
Field Observations:	Depth (inches): 1						
	Depth (inches):						
		Wetland Hydrology Present? Yes No					
(includes capillary fringe)	Depth (inches) Wetial	Wetland Hydrology Present? Yes No					
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if	available:					
Remarks:							
Remarks.							

Sama	lina	Doint	praa400
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00	Absolute	Dominant I		Dominance Test worksheet:					
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species					
1. Acer saccharum	15	Yes	FACU	That Are OBL, FACW, or FAC:0 (A)					
2. Fagus grandifolia	15	Yes	FACU	Total Number of Deminant					
3. Liriodendron tulipifera	15	Yes	FACU	Total Number of Dominant Species Across All Strata:  8 (B)					
4 Betula alleghaniensis	10	No	FAC	Openies / toross / tir etrata.					
5 Betula lenta	10	No	FACU	Percent of Dominant Species					
<u> </u>				That Are OBL, FACW, or FAC:0 (A/B)					
6				Prevalence Index worksheet:					
7									
		= Total Cove							
50% of total cover: 32.5	20% of	total cover:_	13	ODL species					
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =					
1. Acer pensylvanicum	15	Yes	FACU	FAC species16 x 3 =48					
2. Betula lenta	15	Yes	FACU	FACU species104 x 4 =416					
3 Fagus grandifolia	12	Yes	FACU	UPL species 8 x 5 = 40					
3 4940 9.4				Column Totals: 128 (A) 504 (B)					
4				Column Totals (A) (B)					
5				Prevalence Index = B/A = 3.93					
6				Hydrophytic Vegetation Indicators:					
7									
8				1 - Rapid Test for Hydrophytic Vegetation					
				2 - Dominance Test is >50%					
9	42	<del></del>		3 - Prevalence Index is ≤3.0 <sup>1</sup>					
50% of total cover: 21		= Total Cove	er 8.4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting					
E	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. Dryopteris carthusiana	4	No	FAC	1 Toblematic Trydrophytic Vegetation (Explain)					
2. Carex blanda	2	No	FAC	1					
3				¹Indicators 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				Senting/Shrub Weedy plants evaluding vines 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.									
11	6			Herb – All herbaceous (non-woody) plants, regardless					
50% of total cover: 16.5		= Total Cove		of size, and woody plants less than 3.28 ft tall.					
0070 01 10101 00701.	20% of	total cover:	0.0	Woody vine – All woody vines greater than 3.28 ft in					
Woody Vine Stratum (Plot size: 30 )				height.					
1. Smilax pumila	8	Yes	UPL						
2. Rubus allegheniensis	7	Yes	FACU						
3.									
4.									
·				Hydrophytic					
5				Vegetation Present? Yes No					
7.5		= Total Cove		Present? Yes No					
50% of total cover: 7.5	20% of	total cover:_	3						
Remarks: (Include photo numbers here or on a separate s	heet.)								

SOIL Sampling Point: praa400

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the ir	ndicator o	or confirm	the abse	ence of indicato	rs.)	
Depth	Matrix		Redo	x Features	;					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu		Remarks	
0-3	10YR 3/3	100					SICL	rock at 9"		
3-9	10YR 5/4	100					SICL			
								<del></del>		
							-	<del></del>		
										_
								<del></del>		
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Locatio	n: PL=Pore Linir	ng, M=Matrix	
Hydric Soil								ndicators for Pr		
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A	(10) <b>(MLRA</b>	147)
	oipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147,	148)	Coast Prairie	, .	•
	stic (A3)		Thin Dark Su				, _	(MLRA 14		
	en Sulfide (A4)		Loamy Gleye				_	Piedmont Flo		s (F19)
Stratified	d Layers (A5)		Depleted Ma	rix (F3)				(MLRA 13	6, 147)	
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		_	Very Shallow	Dark Surfac	e (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		_	Other (Explai	n in Remarks	s)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(L</b>	_RR N,				
	A 147, 148)		MLRA 13	-						
	Sleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of hy		
-	Redox (S5)		Piedmont Flo					wetland hydrol		
	Matrix (S6)		Red Parent N	1aterial (F2	21) <b>(MLR</b>	A 127, 147	<u>')</u>	unless disturbe	ed or problem	natic.
Restrictive	Layer (if observed):									
Type: roo			_							_
Depth (in	ches): <u>9</u>		_				Hydric	Soil Present?	Yes	No
Remarks:							1			



Photo 1 Seep data point PRAA400 facing southwest



Seep data point PRAA402 facing west



Seep data point PRAE001 facing southwest



Seep data point PRAE002 facing southeast



Seep data point PRAE005 facing southeast



Seep data point PRAE003 facing south



Seep data point PRAE004 facing southwest



Seep data point PRAE007 facing northeast



Seep data point PRAE006 facing south



Seep data point PRAE008 facing east



Seep data point PRAA403 facing south



Seep data point PRAE009 facing south



Seep data point PRAA405 facing south



Seep data point PRAA404 facing west



Seep data point PRAA406 facing north



Seep data point PRAA407 facing northwest



Seep data point PRAA408 facing northwest



Seep data point PRAA410 facing west



Seep data point PRAA412 facing west



Seep data point PRAA413 facing west



Seep data point PRAA411 facing west



Seep data point PRAA414 facing west



Seep data point PRAA415 facing northwest



Seep data point PRAA416 facing north



Seep data point PRAA423 facing north



Seep data point PRAA422 facing north



Seep data point PRAA421 facing northwest



Seep data point PRAA420 facing northeast



Seep data point PRAA417 facing northeast



Seep data point PRAA419 facing northeast

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pip	eline	City/C	county: Randolph		Sampling Date: 3/29/2016
Applicant/Owner: Dominion					Sampling Point: praa441
Investigator(s): GB, RP		Section			
Landform (hillslope, terrace, etc					
					Datum: WGS1984
		Lat	Long.	NIVA/I alaaa:f:	Datum
Soil Map Unit Name:					
Are climatic / hydrologic condition					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal C	Circumstances"	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, ex	plain any answ	ers in Remarks.)
SUMMARY OF FINDING	GS – Attach sit	e map showing sam	pling point location	ns, transect	s, important features, etc.
Hydrophytic Vegetation Prese	ant? Ves	✓ No			
Hydric Soil Present?		No	Is the Sampled Area	V	No
Wetland Hydrology Present?		✓ No	within a Wetland?	res	NO
Remarks:					
Seep located on a very steep very little soil present.	road cut for existing	gravel road; output runs a	across existing gravel road	- compromised	rod bed stability; mostly bedrock,
HYDROLOGY	-				
Wetland Hydrology Indicato	ors:		<u>S</u>	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum	of one is required; of	check all that apply)		Surface Soi	Cracks (B6)
✓ Surface Water (A1)		True Aquatic Plants (	B14) _	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pa	atterns (B10)
Saturation (A3)		Oxidized Rhizosphere		Moss Trim I	
Water Marks (B1)		Presence of Reduced		-	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks) _		Stressed Plants (D1)
Iron Deposits (B5)	sial lara man (DZ)		-		Position (D2)
Inundation Visible on Aer			_	Shallow Aqu	` ,
Water-Stained Leaves (B Aquatic Fauna (B13)	,9)		_	Microtopogr FAC-Neutra	aphic Relief (D4)
			_	FAC-Neutra	i Test (D3)
Field Observations: Surface Water Present?	Voc V No	Depth (inches):0.	.25		
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):	^	dralagy Brasa	nt? Yes V No
(includes capillary fringe)	res No	Deptit (inches)	welland ny	drology Frese	iit! Tes NO
Describe Recorded Data (stre	am gauge, monitor	ing well, aerial photos, pre	vious inspections), if availa	able:	
Remarks:					
Remarks.					

_			
Samn	lina	Point: praa441	

20	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:30) 1 none	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:  4	(A)
2				Total Number of Dominant	(7.1)
3				Species Across All Strata: 7	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: <u>57.14285714</u>	(A/B)
6				Prevalence Index worksheet:	
	0	= Total Cove		Total % Cover of: Multiply by:	
50% of total cover: 0		total cover:	0	OBL species0 x 1 =0	_
Sapling/Shrub Stratum (Plot size: 15 )				FACW species 4	_
1 Rubus allegheniensis	6	Yes	FACU	FAC species10 x 3 =30	
2. Spiraea japonica	5	Yes	FACU	FACU species 19 x 4 = 76	-
3. Fagus grandifolia		Yes	FACU	UPL species 0 x 5 = 0	-
4 Fraxinus americana	3	No	FACU	Column Totals: 33 (A) 114	(B)
5					_ (_)
6				Prevalence Index = B/A = 3.45	_
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
9	10	Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 9.5	=	= Total Cove total cover:	3.8	4 - Morphological Adaptations <sup>1</sup> (Provide supp	oorting
E	20 /6 01	iolai cover.		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size:	4	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	n)
2. Carex blanda	4	Yes	FAC		
3. Eutrochium purpureum	3	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology m	nust
4 Solidago rugosa	3	Yes	FAC	be present, unless disturbed or problematic.	
-			-710	Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 d	cm) or
6				more in diameter at breast height (DBH), regardle	
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, regar	dless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.	
50% of total cover:7	20% of	total cover:	2.8	Woody vine – All woody vines greater than 3.28	ft in
Woody Vine Stratum (Plot size: 30 )				height.	
1. none	0				
2					
3					
4				Hudua who dia	
5.				Hydrophytic Vegetation	
	0 .	= Total Cove	er .	Present? Yes No	
50% of total cover:0		total cover:	^		
Remarks: (Include photo numbers here or on a separate s	heet.)			I.	
	,				

SOIL Sampling Point: praa441

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix			x Features				
(inches) 0-2	Color (moist) 10YR 2/2	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> L	Remarks
2-4	10YR 4/3	100					SL	Bedrock at 4"
1Type: C=Co	oncentration, D=Deple	ation PM-P	aduced Matrix MS	———— S-Maskad	Sand Gra		<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		elion, Kivi=K	educed Matrix, Mc	3=IVIASKEU	Sand Gra	11115.	Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147,		Coast Prairie Redox (A16)
Black His			Thin Dark Su				· —	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	,	F2)		F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mar	. ,	,			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b> I Below Dark Surface	(111)	Redox Dark S					/ery Shallow Dark Surface (TF12)
	irk Surface (A12)	(A11)	Depleted Dar Redox Depre				(	Other (Explain in Remarks)
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangan			_RR N,		
	147, 148)		MLRA 13		, , ,			
	leyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)  ayer (if observed):		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 14	/) un	lless disturbed or problematic.
Type: bed	drock							
Depth (inc			<del>_</del>				Hydric Soil	Present? Yes No
Remarks:			<u> </u>				Tiyunic oon	11163cm: 163 NO
Kemarks.								



Seep data point PRAA441 facing northeast

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pip	eline	City/C	ounty: Randolph		Sampling Date: 3/29/2016
Applicant/Owner: Dominion					Sampling Point: praa439
Investigator(s): GB, RP		Section			
Landform (hillslope, terrace, etc					
					Datum: WGS1984
		Lat	Long	NIM/L alogaif	icotion: UPLAND
Soil Map Unit Name:					
Are climatic / hydrologic condition					
					present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, ex	xplain any answ	ers in Remarks.)
SUMMARY OF FINDING	GS – Attach sit	te map showing sam	pling point location	ns, transect	s, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	✓ No			
Hydric Soil Present?		No_ ✔	Is the Sampled Area within a Wetland?	Ves	No
Wetland Hydrology Present?	Yes	<b>✓</b> No	within a wettand:	163	
Remarks:					
Seasonal seep located on roa	d cut for existing gra	avel road on a steep slope	; does not meet hydric soi	il criteria.	
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum	of one is required; of	check all that apply)		Surface Soi	l Cracks (B6)
✓ Surface Water (A1)		True Aquatic Plants (			egetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Page Page Page Page Page Page Page P	
Saturation (A3)		Oxidized Rhizosphere		Moss Trim I	
Water Marks (B1)		Presence of Reduced		-	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	
Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aer	rial Imagary (P7)		-	Geomorphic Shallow Aq	c Position (D2)
Water-Stained Leaves (B			-		raphic Relief (D4)
Aquatic Fauna (B13)	19)		•	FAC-Neutra	. , ,
Field Observations:			<u> </u>	17.0 1104110	1 1001 (20)
Surface Water Present?	Yes V No	Depth (inches):0.	.25		
Water Table Present?		Depth (inches):			
Saturation Present?		Depth (inches):	^	vdrology Prese	ent? Yes 🗸 No
(includes capillary fringe)					163 140
Describe Recorded Data (stre	am gauge, monitor	ring well, aerial photos, pre	vious inspections), if avail	lable:	
Remarks:					
Nomano.					

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

Sampling Point: praa439

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Deminant
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				(B)
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:60 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove	_	1
50% of total cover:0	20% of	total cover:_	0	32 X 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Fagus grandifolia	20	Yes	FACU	FAC species28
2. Fraxinus americana	15	Yes	FACU	FACU species 62 x 4 = 248
3. Rubus allegheniensis	12	No	FACU	UPL species0 x 5 =0
	10	No	FACU	Column Totals: 122 (A) 396 (B)
4. Hamamelis virginiana				Column rotals (A) (B)
5. Liriodendron tulipifera	5	No	FACU	Prevalence Index = B/A = 3.24
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9	62	<del></del>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 31		= Total Cove	r 12.4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
5070 01 total 00001.	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. Dichanthelium clandestinum	15	Yes	FAC	1 Toblematic Trydrophytic Vegetation (Explain)
2. Packera aurea	12	Yes	FACW	1
3. Juncus effusus	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago rugosa	8	No	FAC	
5 Dichanthelium scoparium		No	FACW	Definitions of Four Vegetation Strata:
<u>.                                    </u>	5	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Carex scoparia				more in diameter at breast height (DBH), regardless of
7. Eutrochium purpureum	5	No	FAC	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.				
	60	Total Cava		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30		= Total Cover total cover:	12	or size, and woody plants less than 5.20 it tall.
00/001 total 00/01:	20% 01	lotal cover		Woody vine - All woody vines greater than 3.28 ft in
voody vine dilatuii (i lot size.	0			height.
1. none	0			
2				
3				
4				
5.				Hydrophytic
J		T 0		Vegetation Present? Yes No
50% of total cover: 0		= Total Cove	r O	1100m: 100 NO
30 % of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: praa439

Profile Desc	ription: (Describe to	o the depth	needed to docum	nent the i	ndicator o	or confirm	the absence	e of indicators.)	
Depth	Matrix			x Features					
(inches) 0-5	Color (moist) 10YR 4/3	% 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> L	Remarks	S
5-11	10YR 5/3	100					SICL	rock at 11"	_
					-				
								-	-
1- 0.0				<del></del> .			2		
Type: C=Co	ncentration, D=Deple	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ins.	Location: F	PL=Pore Lining, M=Matricators for Problematic	X. Hydric Soile <sup>3</sup> :
-			Dork Surface	(87)					-
Histosol	(A1) ipedon (A2)		Dark Surface Polyvalue Be		۸۱ (82) م	Ι <b>Ρ</b> Δ 147		2 cm Muck (A10) <b>(MLR<i>A</i> Coast Prairie Redox</b> (A1	
Black His			Thin Dark Su				170) \	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye			,,	F	Piedmont Floodplain Soi	ls (F19)
	Layers (A5)		Depleted Ma		,		· <u></u>	(MLRA 136, 147)	,
	ck (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallow Dark Surfa	
	Below Dark Surface	(A11)	Depleted Dar				(	Other (Explain in Remarl	ks)
	irk Surface (A12)	DD N	Redox Depre			DD N			
	lucky Mineral (S1) <b>(L</b> l <b>. 147, 148)</b>	KK N,	Iron-Mangan		es (F12) (I	-KK N,			
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6. 122)	<sup>3</sup> Inc	dicators of hydrophytic v	egetation and
	edox (S5)		Piedmont Flo					etland hydrology must b	-
-	Matrix (S6)		Red Parent N					nless disturbed or proble	
	ayer (if observed):								
Type: noi	ne		<u></u>						
Depth (inc	ches):		<u>—</u>				Hydric Soi	I Present? Yes	No
Remarks:							<b>.</b>		



Seep data point PRAA439 facing east

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Applicant/Owner: Dominion State: WV Sampling Point: praa428 Investigator(s): GB, KM Section, Township, Range:  Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): concave Slope (%): 60 Subregion (LRR or MLRA): Lat: 38.6893478 Long: -80.1274434 Datum: WGS1984 Soil Map Unit Name: NWI classification: UPLAND Are climatic / hydrologic conditions on the site typical for this time of year? Yes Vo (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Investigator(s): GB, KM Section, Township, Range:  Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): concave Slope (%): 60  Subregion (LRR or MLRA): Lat: 38.6893478 Long: -80.1274434 Datum: WGS1984  Soil Map Unit Name: NWI classification: UPLAND  Are climatic / hydrologic conditions on the site typical for this time of year? Yes Vo No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Lat: 38.6893478 Local relief (concave, convex, none): concave Slope (%): 60  Subregion (LRR or MLRA): Lat: 38.6893478 Long: -80.1274434 Datum: WGS1984  Soil Map Unit Name: NWI classification: UPLAND  Are climatic / hydrologic conditions on the site typical for this time of year? Yes Vogetation No (If no, explain in Remarks.)  Are Vegetation No (If needed, explain any answers in Remarks.)
Subregion (LRR or MLRA): Lat: 38.6893478
Soil Map Unit Name:  Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?  Are Vegetation, Soil, or Hydrology naturally problematic?  (If needed, explain any answers in Remarks.)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No  Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers 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 leatures, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present?  Yes No  Remarks:
subterranean; no bed/bank/OHWM; soils do not meet hydric soil criteria.
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         Saturation (A3)       Oxidized Rhizospheres on Living Roots (C3)       Moss Trim Lines (B16)
Value Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:  Surface Water Present?  Yes _ V No Depth (inches):
Water Table Present?  Yes No Depth (inches):
Saturation Present? Vas V No. Depth (inches): U Watland Hydrology Present? Vas V No.
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

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

Sampling Point: praa428

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:4 (A)
2				T. IN I CD
3				Total Number of Dominant Species Across All Strata:  8 (B)
				Species Across Air Strata(D)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:_	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACVV species
1 Betula alleghaniensis	6	Yes	FAC	FAC species8 x 3 =24
2. Spiraea japonica		Yes	FACU	FACU species17 x 4 =68
3. Fagus grandifolia		Yes	FACU	UPL species0 x 5 =0
	4	Yes	FACU	30 00
4. Acer saccharum	4	1 es	FACU	Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.3
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	20	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:10		total cover:_	4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5		_		data in Remarks or on a separate sheet)
1 Carex scabrata	3	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polystichum acrostichoides	3	Yes	FACU	
3. Carex blanda	2	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Viola blanda	2	Yes	FACW	be present, unless disturbed or problematic.
"				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		<u></u> ,		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	10	= Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5		total cover:	2	or size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 30 )	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
1. none	0			height.
1. 1010				
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.)			1
	,			

SOIL Sampling Point: praa428

Profile Desc	cription: (Describe to	o the depth r	needed to docur	nent the i	ndicator	or confirm	the ab	sence of indicato	ors.)	
Depth	Matrix		Redo	x Features	<u> </u>					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks	
							-	<del></del>		-
			,							
										-
	-							<del></del> -		-
										_
				·	·		·			_
			<del></del> ,		-		-	<u> </u>		
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Loca	tion: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil								Indicators for Pr		ric Soils³:
Histosol			Dark Surface	(S7)					A10) <b>(MLRA 14</b> 7	
	pipedon (A2)	-	Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147	148)		Redox (A16)	,
	istic (A3)	-	Thin Dark Su				140)	(MLRA 14		
	en Sulfide (A4)	-	Loamy Gleye			, . <del></del> 0,			oodplain Soils (F	19)
	d Layers (A5)	-	Depleted Ma	•	<i>2)</i>			(MLRA 13		13)
	uck (A10) <b>(LRR N)</b>	-	Redox Dark		6)			•	, Dark Surface (	TE12)
	d Below Dark Surface	(Δ11)	Nedox Dark Depleted Dar						in in Remarks)	11 12)
	ark Surface (A12)	(7(1))	Redox Depre					Other (Explain	iii iii Romans)	
	/Jucky Mineral (S1) <b>(L</b> l	RR N	Iron-Mangan			IRRN				
	A 147, 148)		MLRA 13		73 (1 12) <b>(</b> 1	LIXIX IV,				
	Gleyed Matrix (S4)		Umbric Surfa	•	MI DA 12	6 122\		3Indicators of by	ydrophytic veget	tation and
	Redox (S5)	-	Piedmont Flo				0)		logy must be pro	
-	Matrix (S6)	-	Red Parent N					·	ed or problemat	
	Layer (if observed):	-	Neu Falenti	nateriai (F	ZI) (WILK	A 121, 141	<del>'</del>	uniess disturb	ed of problemat	ic.
- no	ne									
Type: no			_							
Depth (in	ches):		_				Hydi	ric Soil Present?	Yes	No
Remarks:							1			



Seep data point PRAA428 facing southwest



Seep data point PRAA443 facing west



Seep data point PRAA447 facing southwest



Seep data point PRAA444 facing southwest



Seep data point PRAA446 facing southwest



Seep data point PRAA427 facing northwest



Seep data point PRAA425 facing west



Seep data point PRAA453 facing southwest



Seep data point PRAA454 facing west



Seep data point PRAA455 facing west



Seep data point PRAA456 facing southwest



Seep data point PRAA459 facing southwest



Seep data point PRAA430 facing north



Seep data point PRAA429 facing north



Seep data point PRAA432 facing northeast



Seep data point PRAA431 facing east



Seep data point PRAA433 facing northeast



Seep data point PRAA434 facing northeast



Seep data point PRAA436 facing northeast



Seep data point PRAA435 facing northeast



Seep data point PRAC118 facing northwest



Seep data point PRAC121 facing south

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: ACP	_ City/County: Randolph Sampling Date: 3/14/16
Applicant/Owner: Dominion	
Investigator(s): EST (R. Turnbult)	Section Township Range: NA
Subregion (LRR or MLRA): LRR N Lat: 38,643 Soil Map Unit Name: Gilpin-DeKalb stony Complex	Local relief (concave, convex, none):
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significan	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No	Is the Sampled Area within a Wetland? Yes No/_
Seep on logging road out	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)
Surface Water (A1) True Aquation	
High Water Table (A2) Hydrogen St	
	izospheres on Living Roots (C3) Moss Trim Lines (B16)
	Reduced Iron (C4) Dry-Season Water Table (C2)  Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Sediment Deposits (B2) Recent Iron Thin Muck S	
	in in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inch	
Water Table Present? Yes No Depth (inch	
Saturation Present? Yes No Depth (inch	nes): Surface   Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	

EGETATION (Four Strata) – Use scientific n	Absolute	Dominant	Indicator	Dominance Test worksheet:		2
Tree Stratum (Plot size: 30 ft. x 10 ft.)	% Cover	The second second		Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
				Total Number of Dominant Species Across All Strata:	- (	(B)
		-		Percent of Dominant Species That Are OBL, FACW, or FAC:	100%	(A/B)
				Prevalence Index worksheet: Total % Cover of:	Multiply by:	
	0 .			OBL species x 1	Colombia and the Colomb	
50% of total cover:	20% of	total cover:		The state of the s		
Sapling/Shrub Stratum (Plot size: 30 ft. x 10 ft.)			- 1	FACW species x 2		
. none				FAC species x 3	3 =	_
			Charles Comprised	FACU species x 4	4 =	_
Age to the Company of	A STATE OF THE PARTY OF THE PAR		-	UPL species x 5	5 =	
		1		Column Totals: (A)		
		-		Column Fotals: v v	1	
			-	Prevalence Index = B/A = .		
				Hydrophytic Vegetation Indicat		
		January II.		1 - Rapid Test for Hydrophyti		
				2 - Dominance Test is >50%		
	A	Total Cov	-	3 - Prevalence Index is ≤3.01		
				4 - Morphological Adaptation	s1 (Provide sup	porting
50% of total cover:	20% 01	total cover:	1 10 10 10 10 10 10	data in Remarks or on a s	separate sheet)	
lerb Stratum (Plot size: 30ft x 10ft. )	5	V	-	Problematic Hydrophytic Veg	THE TAXABLE PROPERTY.	
. Juneus effusus		1	FACW			
		1000				
			The state of the s	<sup>1</sup> Indicators of hydric soil and wetle be present, unless disturbed or p	and hydrology	must
					A SECURE OF STREET OF STREET	f. No
			A CONTRACTOR OF THE PARTY OF TH	Definitions of Four Vegetation	Strata:	
				Tree - Woody plants, excluding v	ines 3 in (7.6	cm) or
		-		more in diameter at breast height	(DBH), regard	less of
	4 100			height.		
			The second second second	Sapling/Shrub – Woody plants, than 3 in. DBH and greater than to	excluding vines	6, less
			Targette (mark)	m) tall.	or equal to 3.20	311 (1
0			-	m) tall.		
1.				Herb - All herbaceous (non-wood		ardless
	5 :	Total Cov		of size, and woody plants less that	an 3.28 ft tall.	
50% of total cover: 2,5	20% of	total cover:	1	Woody vine - All woody vines gr	reater than 3.2	B ft in
Voody Vine Stratum (Plot size: 30ft x 10ft)				height.	. Lutter triuit G.E.	
none				The state of the s	7	
		11				
The first contract of the cont	he plant are factor	THITTE				
	THE OWNER OF		-			
		Andrew Control	-	Hydrophytic		
	DELL'AL DELL'AL	100		Vegetation		
	0.	Total Cov	er	Present? Yes	No	
50% of total cover:	20% of	total cover:				
Remarks: (Include photo numbers here or on a separate s	The state of the s	The state of the state of the		The state of the s		-1-
ternains. Unicidae prioto numbers nere or on a separate s	ileet.)					

Depth	cription: (Describe Matrix	to the dept		x Features		or commi	the absence	of marcators.	
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks	
0-8	104R 5/4	100					scl	gravel/carble	resert
Type: C=0	Concentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		=Pore Lining, M=Matrix.	
	Indicators:		Dark Surface				Indica	ators for Problematic Hydric cm Muck (A10) (MLRA 147)	Soils3:
Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy MLR Sandy Sandy	Epipedon (A2) Histic (A3) Hen Sulfide (A4) Hed Layers (A5) Huck (A10) (LRR N) Hed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) (Interpretation of the Matrix (S4) Redox (S5) Hed Matrix (S6)		Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mai Redox Dark S Depleted Dai Redox Depre Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	rface (S9) d Matrix ( irix (F3) Surface (F k Surface ssions (Fi ese Mass 6) ce (F13) (	(MLRA 1 F2) 6) (F7) 8) es (F12) (	LRR N,	— P — R — V — O	coast Prairie Redox (A16) (MLRA 147, 148) riedmont Floodplain Soils (F19) (MLRA 136, 147) ried Parent Material (TF2) riery Shallow Dark Surface (TF0) richer (Explain in Remarks) ricators of hydrophytic vegetat retland hydrology must be pre- nless disturbed or problematic	12) ion and sent,
Restrictive	Layer (if observed)								
Type:			_				Undela Call	Present? Yes N	
Remarks:	nches):		_			_	Hydric 30ii	Fresentr res	
Auge	rafinsal 6	8 incl	nes						



Seep data point prap001 facing south.



Seep data point prap002 facing south.



Seep data point PRAC119 facing east

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

Project/Site: ACP  Applicant/Owner: Dominion  Investigator(s): EST (R. Turnbu  Landform (hillslope, terrace, etc.): Mils  Subregion (LRR or MLRA): LRR N  Soil Map Unit Name: Buchanan and Er  Are climatic / hydrologic conditions on the site  Are Vegetation N, Soil N, or Hydro	Lat: 38.63794  nest stony soils, 15-  typical for this time of year?	on, Township, Range: lief (concave, convex, nor Long: 35% slopes (es No	State: WV  N/A  ne): Concave  0.15640  NWI classificat  (If no, explain in Rer	Sampling Point: 063  Slope (%): 30-46  Datum: WG58+  ion: N/A  marks.)
Are Vegetation, Soil, or Hydro  SUMMARY OF FINDINGS - Attach  Hydrophytic Vegetation Present? Ye  Hydric Soil Present? Ye	logy naturally problem	atic? (If needed, e	explain any answers	in Remarks.) important features, etc
Seep on logging road ent				
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required of the second of the s	True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reductic Thin Muck Surface ( Other (Explain in Re	for (C1) res on Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7)	Surface Soil C Sparsely Vege Drainage Patte Moss Trim Lin Dry-Season W Crayfish Burro Saturation Vis	etated Concave Surface (B8) erns (B10) es (B16) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) /osition (D2) ard (D3) /bic Relief (D4)
Water Table Present? Yes	No Depth (inches):	Wetland I	Hydrology Present	? Yes No
Remarks:				

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

Sampling Point: prap 863

706.706	Absolute Dominant Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30ft, x30ft) 1. nove	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
23		Total Number of Dominant Species Across All Strata: (B)			
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)			
6		Prevalence Index worksheet:			
7		Total % Cover of: Multiply by:			
	= Total Cover	OBL species x 1 =			
50% of total cover:	20% of total cover:	FACW species x 2 =			
Sapling/Shrub Stratum (Plot size: 30 Pl. x 30 ft.)		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 =			
5,		Hydrophytic Vegetation Indicators:			
7.		1 - Rapid Test for Hydrophytic Vegetation			
1		2 - Dominance Test is >50%			
9.		3 - Prevalence Index is ≤3.01			
	= Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
	20% of total cover:	data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: 30 Ft x 30 Ft)		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		Definitions of Four Vegetation Strata:			
5.		Definitions of Four Vegetation Strata.			
6.		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or			
7		more in diameter at breast height (DBH), regardless of height.			
8		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	= Total Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
	20% of total cover:	Woody vine - All woody vines greater than 3.28 ft in			
Woody Vine Stratum (Plot size: 30 ft. x 30ft.)		height.			
1. hone	<u> </u>				
2.					
3.					
4.		Hydrophytic			
5.		Vegetation			
	O = Total Cover	Present? Yes No			
50% of total cover:	20% of total cover:				
5	= Total Cover 20% of total cover:				

Depth	ription: (Describe t	o the dept		x Feature					
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc²	Texture	Rema	
0-10	104R5/6	100					SCL	gravel pr	Esent
Histosol Histosol Histic E Black H Hydroge Stratifie 2 cm Mi Deplete Thick D Sandy M Sandy F	pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) flucky Mineral (S1) (LA 147, 148) Gleyed Matrix (S4)	e (A11)	Reduced 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 Piedmont Flo	(S7)  clow Surfaurface (S9)  cd Matrix (F3)  Surface (Frk Surface essions (Fese Mass 6)  ace (F13)	ce (S8) (M ) (MLRA (F2) F6) e (F7) 8) es (F12) (	MLRA 147, 147, 148) LRR N,	Indic.  148) 2  148) 6  6  0  3lnc  48) v	=Pore Lining, M=Ma ators for Problemati cm Muck (A10) (MLi Coast Prairie Redox (A (MLRA 147, 148) Piedmont Floodplain S (MLRA 136, 147) Red Parent Material (T (Arry Shallow Dark Sur Other (Explain in Rem	c Hydric Soils <sup>3</sup> : RA 147) A16) Soils (F19) FF2) rface (TF12) arks) c vegetation and st be present,
	Layer (if observed):								
Depth (in	ches):						Hydric Soi	Present? Yes	No
Auger	refusal Ca	) 10 in	nches						



Seep data point prap003 facing east.



Seep data point prap004 facing south.

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

Project/Site: Atlantic Coast Pipeline	City/County:	Randolph	Sampling Date: 8/9/2016
Applicant/Owner: Dominion		State: WV	Sampling Point: prae404
00.10	Section, To		
Landform (hillslope, terrace, etc.): road cut			
Subregion (LRR or MLRA):			
Soil Map Unit Name:	Lat	NIMI classi	ification: UPL
Are climatic / hydrologic conditions on the site	typical for this time of year? Vos	✓ No (If no explain in	Pomarks \
Are Vegetation, Soil, or Hydrol			
Are Vegetation, Soil, or Hydrol	ogy naturally problematic?	(If needed, explain any answ	wers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling	g point locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes	s <u>/</u> No Is th	e Sampled Area	
	S No V with		No <u> </u>
Wetland Hydrology Present? Yes	s No		
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	icators (minimum of two required)
Primary Indicators (minimum of one is require	ed: 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		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on I		Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (		n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Ti		urrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)	Other (Explain in Remarks)		ic Position (D2)
Inundation Visible on Aerial Imagery (B7			quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutr	
Field Observations:		1 AO-Neuti	181 1831 (D3)
	o Depth (inches):		
<u></u>	o Depth (inches):		
	o Depth (inches):0	Wetland Hydrology Pres	ent? Yes 🗸 No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor seepage from side slope	itoring well, aerial photos, previous	nspections), if available:	
Remarks:			
Remarks.			

Samo	lina	Doint	prae404
อสเทย	HI ICI	POIL	piao io i

· ,	Absolute	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 none	0			Number of Dominant Species That Are OBL 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				
5				Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
		= Total Cover	_	
50% of total cover:0	20% of	total cover:	0	OBL species X I = T
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. none	0			FAC species5
·· <del>-</del>		-		FACU species5
2				UPL species 0 x 5 = 0
3				25 05
4				Column Totals: (A) (B)
5				Prevalence Index = R/A = 2.42
			_	1 Tevalence mack = B/TC =
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 Cover		· <del></del>
50% of total cover: 0		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20 /0 01	total cover.		data in Remarks or on a separate sheet)
	10		E 4 014/	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Poa palustris	10	Yes	FACW	<u> </u>
2. Juncus effusus	10	Yes	FACW	
3. Carex grayi	5	No	FACW	¹Indicators of hydric soil and wetland hydrology must
△ Solidago rugosa	5	No	FAC	be present, unless disturbed or problematic.
5. Prunus pensylvanica	5	No	FACU	Definitions of Four Vegetation Strata:
5. Tranas pensylvanica		<u>No</u>	FACU	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		·		<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	35	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 17.5		total cover:_		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 none	0			height.
1. <u>Holie</u>				
2				
3				
4.				
		-		Hydrophytic
5				Vegetation Vegetation
		<ul><li>Total Cover</li></ul>		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate si	heet.)			

**SOIL** Sampling Point: prae404

Depth	Matrix		Redox	k Features		n the ab		
inches)	Color (moist)	%	Color (moist)		oe <sup>1</sup> Loc <sup>2</sup>	Text	ure	Remarks
0-8	10YR 4/4	100				SC	:L	
		<del></del> -	•					
				· <u> </u>				
		<del></del>			· · · · · · · · · · · · · · · · · · ·			
		<del></del> -					<del></del>	
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked San	d Grains.			ning, M=Matrix.
dric Soil	Indicators:						Indicators for	Problematic Hydric Soils <sup>3</sup>
_ Histosol	I (A1)		Dark Surface	(S7)			2 cm Muck	(A10) <b>(MLRA 147)</b>
_ Histic E	pipedon (A2)		Polyvalue Be	low Surface (S	8) <b>(MLRA 147</b> ,	148)	Coast Prai	rie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9) (ML	RA 147, 148)		(MLRA	147, 148)
_ Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)			Piedmont F	Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Mat	rix (F3)			(MLRA	136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F6)			Very Shallo	ow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface (F7)			Other (Exp	lain in Remarks)
_ Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)				
_ Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masses (F	12) <b>(LRR N,</b>			
MLR	A 147, 148)		MLRA 136	6)				
_ Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(MLR</b>	A 136, 122)		3Indicators of	hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain Soils (	F19) <b>(MLRA 1</b> 4	<b>18</b> )	wetland hyd	rology must be present,
_ Stripped	d Matrix (S6)		Red Parent M	1aterial (F21) (	MLRA 127, 14	7)	unless distu	rbed or problematic.
								·
estrictive	Layer (if observed):							
estrictive	Layer (if observed): OCK							
Type: R	OCK		<u></u>			Uvdri	c Sail Brasant'	Vos No V
Type: RO	OCK		<u> </u>			Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK		<u> </u>			Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK		<u> </u>			Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK		<u>-</u>			Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK		<u> </u>			Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No <u> </u>
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No <u>~</u>
Type: Ro Depth (in emarks:	OCK		_			Hydri	c Soil Present	? Yes No <u>~</u>
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in marks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in marks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: R	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in emarks:	OCK					Hydri	c Soil Present	? Yes No
Type: Romann Rom	OCK					Hydri	c Soil Present	? Yes No
Type: Ro Depth (in marks:	OCK					Hydri	c Soil Present	? Yes No



Seep data point prae404 facing south

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont City/County: Randolph Sampling Date: 3/14/16 Project/Site: \_\_\_ACP Applicant/Owner: Dominion Investigator(s): EST - R. Turnbull Section, Township, Range: N/A Landform (hillslope, terrace, etc.): 500p Local relief (concave, convex, none): \_\_\_\_\_\_\_ Slope (%):\_\_\_\_\_\_\_ Subregion (LRR or MLRA): LRR N Lat: 38.63594 Long: -80.15807 Datum: WGS84 Soil Map Unit Name: Giloin - Dekalb stony complex, moist 35-70% slopes NWI classification: WG584 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_ No \_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area Yes\_\_\_\_No\_\_ within a Wetland? Remarks: Seep on logging road cut

IYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	<ul> <li>True Aquatic Plants (B14)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living Roots (C3)</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Thin Muck Surface (C7)</li> </ul>	<ul> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>		
Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Imager     Water-Stained Leaves (B9)     Aquatic Fauna (B13)	Other (Explain in Remarks) y (B7)	<ul> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Water Table Present?  Saturation Present?  (includes capillary fringe)	No Depth (inches): Wetlands, monitoring well, aerial photos, previous inspections), if a	d Hydrology Present? Yes No		
Remarks:				

Sampling Point: Prap 805

2011.2011	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30Ft. x30Ft.)  1. none	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 Ft. x 30 ft.)		
1. none		FACILIFICATION X 3 =
2		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5.		Prevalence Index = B/A =
5,		Hydrophytic Vegetation Indicators:
1.	بالنسيع المستسير المستسال	1 - Rapid Test for Hydrophytic Vegetation
3.		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0¹
	O = Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30Ft.x 30 Ft.)		data in Remarks or on a separate sheet)
1. how		Problematic Hydrophytic Vegetation¹ (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:
		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6,		more in diameter at breast height (DBH), regardless of
7.		height.
B.		Sapling/Shrub - Woody plants, excluding vines, less
<b>3.</b>		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10,		iii) tali.
11:		Herb – All herbaceous (non-woody) plants, regardless
	= Total Cover	of size, and woody plants less than 3.28 ft tall.
	20% of total cover:	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30ff. x 30 ff. )		height.
1. NONE		
2.		
3,		
4		Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate	sheet.)	the state of the s
NO vegetation present		
No vege wilds treasons		

	atrix		Features	-	na managara
nches) Color (moi	st) %	Color (moist)	% Type Loc2	Textur	re Remarks
0					rock
				_	_
					_
				-	
				2,	Di Boot Heles McMelels
Type: C=Concentration, D	D=Depletion, RM:	Reduced Matrix, MS	S=Masked Sand Grains.		n: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:					ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Dark Surface			2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)			low Surface (S8) (MLRA 147		Coast Prairie Redox (A16)
Black Histic (A3)			rface (S9) (MLRA 147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont Floodplain Soils (F19)
Stratified Layers (A5)		Depleted Mat	trix (F3)		(MLRA 136, 147)
2 cm Muck (A10) (LRF		Redox Dark S	Surface (F6)		Red Parent Material (TF2)
Depleted Below Dark S	Surface (A11)	Depleted Dar	rk Surface (F7)		Very Shallow Dark Surface (TF12)
Thick Dark Surface (A	12)	Redox Depre	essions (F8)		Other (Explain in Remarks)
Sandy Mucky Mineral	(S1) (LRR N,	Iron-Mangan	ese Masses (F12) (LRR N,		
MLRA 147, 148)		MLRA 13	6)		
Sandy Gleyed Matrix (	(S4)	Umbric Surfa	ace (F13) (MLRA 136, 122)		3Indicators of hydrophytic vegetation and
			odplain Soils (F19) (MLRA	148)	wetland hydrology must be present,
Sandy Redox (S5)				/	
				,	unless disturbed or problematic.
Stripped Matrix (S6)	erved):			1	
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if obse					
Stripped Matrix (S6) Restrictive Layer (if obse		_		T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obset  Type:  Depth (inches):				T	
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:			ock / bedrock	T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if obsettype:  Depth (inches):  Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsettype: Depth (inches): Remarks:				T	unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if obsetty the company of the company				T	unless disturbed or problematic.
Stripped Matrix (S6)  Restrictive Layer (if observable):  Type:  Depth (inches):  Remarks:				T	unless disturbed or problematic.



Seep data point prap005 facing south.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont City/County: Randolph Sampling Date: 3 Project/Site: ACP State: WV Sampling Point: praye 01 Applicant/Owner: Dominion Investigator(s): ESI (R. Turnbull) Section, Township, Range: N/A Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): tocave Slope (%): 45-45 Soil Map Unit Name: Gilpin - Dekalb stony complex, moist, 3-15%, 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 "Normal Circumstances" present? Yes \_\_\_\_\_ No \_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Logging area HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: \_\_\_ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) \_\_ Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Hydrogen Sulfide Odor (C1)

Oxidized Rhizosphere \_\_ True Aquatic Plants (B14) \_\_ Drainage Patterns (B10) High Water Table (A2) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Saturation (A3) 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) \_ Drift Deposits (B3) \_\_ Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) \_\_ Stunted or Stressed Plants (D1) \_\_ Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Geomorphic Position (D2) \_\_ Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) \_\_ Microtopographic Relief (D4) \_\_ Water-Stained Leaves (B9) FAC-Neutral Test (D5) Aquatic Fauna (B13) Field Observations: Yes No Depth (inches): Surface Water Present? Yes \_\_\_ No \_\_\_ Depth (inches): surface Water Table Present? Yes No \_\_\_ Depth (inches): Surface Wetland Hydrology Present? Yes \_\_\_\_ No \_ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

2-0-1-0		Dominant I		Sampling Point: prap006  Dominance Test worksheet:
Control of the Contro		Species?		Number of Dominant Species
none				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant Species Across All Strata: (B)
3				Species Across All Strata:
5		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B
6.				mat Ale Obt., FACW, of FAC.
7.				Prevalence Index worksheet:
	0	= Total Cove	r	
50% of total cover:	_ 20% of	total cover:_		OBL species
Sapling/Shrub Stratum (Plot size: 38 ft. * 10 ft. )				A STATE OF THE PARTY OF THE PAR
. none				The species
2.	14.7			FACU species
3.	The state of the state of			Column Totals: 70 (A) 260 (B)
		-	-	
•				Prevalence Index = B/A = 3.7
				Hydrophytic Vegetation Indicators:
7. B.	Market Street	The state of the s	-	1 - Rapid Test for Hydrophytic Vegetation
9.		-		2 - Dominance Test is >50%
50% of total cover:		= Total Cove		3 - Prevalence Index is ≤3.0¹
	The state of the s			4 - Morphological Adaptations¹ (Provide supportin
Herb Stratum (Plot size: 30 ft. x lo ft.)				data in Remarks or on a separate sheet)
1. Rubur allegheniensis	50		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
2. Athyrium asplenioides	20	4	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.			المحاليات	be present, unless disturbed or problematic.
4.				Definitions of Four Vegetation Strata:
5,	and the second second second second			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
5				more in diameter at breast height (DBH), regardless o
·				height.
1.				Sapling/Shrub - Woody plants, excluding vines, less
).		Maria Cara		than 3 in. DBH and greater than or equal to 3.28 ft (1
10	**************************************	-	-	m) tall.
11.	70			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		<ul> <li>Total Cove total cover:_</li> </ul>		of size, and woody plants less than 3.26 it tail.
Woody Vine Stratum (Plot size: 30ft. x 10ft.)	_ 20/0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
1. none				height.
2				
4.		Section 2 halfs		II. describate
5.				Hydrophytic Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:	_ 20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate sh	neet.)			

rofile Description: (Describe to the d Depth Matrix	Redox Fe	atures	_	
(inches) Color (moist) %  0-8 1 1 1 R 3/3 100	Color (moist)	% Type <sup>1</sup> Loc <sup>2</sup>		Remarks
0-8 IMR 3/3 100			SL _	
Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=M:	asked Sand Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix. for Problematic Hydric Soils³:
lydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm 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)	Thin Dark Surface Loamy Gleyed Matrix ( Redox Dark Surface Depleted Dark Surface Redox Depressio Iron-Manganese MLRA 136) Umbric Surface (I	Surface (S8) (MLRA 14: e (S9) (MLRA 147, 148) atrix (F2) F3) ace (F6) urface (F7)	2 cm M 7, 148) Coast I	luck (A10) (MLRA 147) Prairie Redox (A16) RA 147, 148) ont Floodplain Soils (F19) RA 136, 147) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) s of hydrophytic vegetation and d hydrology must be present,
Stripped Matrix (S6) estrictive Layer (if observed):			unless	disturbed or problematic.
Туре:			The state of the s	
Depth (inches):			Hydric Soil Pres	ent? Yes No
Auger refusal @ 8	Tinches			



Seep data point prap006 facing south.

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: ACP Applicant/Owner: Danies	City/County: Randelph Sampling Date: 3/14/12  State: W Sampling Point: Prap007
FST/P Turabull)	Section, Township, Range: N/A
	Local relief (concave, convex, none): Slope (%): 10 -15
	.63190 Long: -80.15844 Datum: WG584
Soil Map Unit Name: Buchanon and Ernest stom	4 50115 15-35 % 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 sig	gnificantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	
SUMMARY OF FINDINGS – Attach site map s	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No	within a Wetland? Yes No
Remarks:	
Seep	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all the	
(Carrier 1977)	Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
	ogen Sulfide Odor (C1) Drainage Patterns (B10)
	ized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
	ence of Reduced Iron (C4) Dry-Season Water Table (C2) ent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
	Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
	r (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
	oth (inches):
Water Table Present? Yes No Dep	
Saturation Present? Yes No Dep	oth (inches): Surface Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, a	perial photos, previous inspections), if available:
Remarks:	

#### Sampling Point: Prap 007 VEGETATION (Four Strata) - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: 30 ft x 30 ft.) % Cover Species? Status Number of Dominant Species 1. Tsuga canadensis 40 Y FACU That Are OBL, FACW, or FAC: Total Number of Dominant (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 40 = Total Cover OBL species \_\_\_ 0 x 1 = 50% of total cover: 20 20% of total cover: Sapling/Shrub Stratum (Plot size: 30 Ft. & 30 Ft.) FACW species \_ 30 FAC species 1. Fanus grandifolia 70 FACU species \_ G x5= UPL species \_ 160 370 (B) 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 30 \_ = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 15 20% of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: 30fd x30fd.) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Athyrium asplenioides <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 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. 30 = Total Cover 50% of total cover: 15 20% of total cover: Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: 30ft, x30 ft.) height.

6 = Total Cover

20% of total cover:

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

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

1. non-c

Yes\_\_\_ No\_\_/

Hydrophytic Vegetation

Present?

	% Color (m	oist) %	Type¹		exture	Remarks	
ntration. D=Depleti							
ntration. D=Depleti							
	on, RM=Reduced M	latrix, MS=Maske	ed Sand Grain	ns. <sup>2</sup> Loo	cation: PL=Pore Li		
ators:	/		-			Problematic Hydric	Soils3:
(A3)  ulfide (A4)  yers (A5)  A10) (LRR N)  low Dark Surface (A  urface (A12)  y Mineral (S1) (LRF  1, 148)  d Matrix (S4)  x (S5)  trix (S6)	— Poly — Thir — Loai — Dep — Red — Red — Red — Red — Iron — Umi	Dark Surface (Stray Gleyed Matrix leted Matrix (F3) ox Dark Surface (leted Dark Surface ox Depressions (I-Manganese Mas/ILRA 136) oric Surface (F13)	9) (MLRA 14 (F2) (F6) 9e (F7) F8) ses (F12) (LI	7, 148) RR N, , 122)	) Coast Prai (MLRA Piedmont	147, 148) Floodplain Soils (F19) 136, 147) Int Material (TF2) Illow Dark Surface (TF2) Illowin in Remarks) If hydrophytic vegetation	12) ion and sent,
- Paris - Indiana - Indian							
				н	vdric Soil Present	Yes V N	0
					yana com r resem	,	
refusal (a)	Inches						
	Surface (A12) sy Mineral (S1) (LRF 7, 148) ed Matrix (S4) ex (S5) trix (S6) er (if observed):	(A3)		Thin Dark Surface (S9) (MLRA 14) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) A10) (LRR N) Plow Dark Surface (A11) Surface (A12) Redox Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (LIRR N, 7, 148) Redox Depressions (F8) Iron-Manganese Masses (F12) (L	Thin Dark Surface (S9) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  yers (A5)  A10) (LRR N)  Blow Dark Surface (A11)  Surface (A12)  Ey Mineral (S1) (LRR N, 7, 148)  Ed Matrix (S4)  Extraction of the first observed):  Thin Dark Surface (S9) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  H	Thin Dark Surface (S9) (MLRA 147, 148)  (MLRA  pleffide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  (MLRA  A10) (LRR N)  Redox Dark Surface (F6)  Surface (A11)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Surface (A12)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, 7, 148)  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  wetland by unless discrete (if observed):  Si:	Thin Dark Surface (S9) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Lyers (A5)  A10) (LRR N)  Redox Dark Surface (F6)  Surface (A11)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Ly Mineral (S1) (LRR N, 7, 148)  MLRA 136)  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 136)  Wetland hydrology must be presunter (if observed):  Hydric Soil Present?  MLRA 137, 148)  Wetland hydrology must be presunter (if observed):  Hydric Soil Present?  MLRA 136 Very Shallow Dark Surface (TF19)  MLRA 136, 122)  January Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 148)  MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydrology must be presuntered in the presuntered or problemation (F19) (MLRA 148)  Hydric Soil Present?  MLRA 147, 148)  Piedmont Floodplain Soils (F19)  MLRA 136, 122)  Wetland hydrology must be presuntered in the presuntered or problemation (F19)  Matrix (S6)  Wetland hydrology must be presuntered in the presunter



Seep data point prap007 facing south.

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: ACP	City/County:	Randolph Samp	ling Date: 3/15/16	
Applicant/Owner: Dominion		State: Sar	mpling Point: prap001	
Investigator(s): ESI (R. Turnbull)	Section, Townsh	ip, Range: N/A		
Landform (hillslope, terrace, etc.): hillslo	Local relief (concave	e, convex, none):	Slope (%): 10-15	
Subregion (LRR or MLRA): LRR N	Lat: 38.62951	Long: -80.15711	Datum: WG584	
Soil Map Unit Name: Gilpin-De Kalb stony				
Are climatic / hydrologic conditions on the site typ				
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in R	emarks.)	
SUMMARY OF FINDINGS - Attach si	te map showing sampling po	oint locations, transects, imp	ortant features, etc.	
Hydrophytic Vegetation Present? Yes _	No le the Sa	Marian Adda		
Hydric Soil Present? Yes _	N- 1 Is the Sa	mpled Area Wetland? Yes N	0 /	
The first section of the control of	No			
Remarks:	•			
Seep				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (r	ninimum of two required)	
Primary Indicators (minimum of one is required;	Surface Soil Crack	Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated	Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns	(B10)	
Saturation (A3)	Oxidized Rhizospheres on Living		All the second s	
Water Marks (B1)	Presence of Reduced Iron (C4)			
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction in Tilled S Thin Muck Surface (C7)		on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stresser		
Iron Deposits (B5)	,	Geomorphic Position		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (I	03)	
Water-Stained Leaves (B9)		Microtopographic F	Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutral Test (	D5)	
Field Observations:	2			
	Depth (inches):	-		
	Depth (inches): Surface			
	Depth (inches): _surface	Wetland Hydrology Present? Y	es No	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)	oring well, aerial photos, previous inspe	actions), if available:		
Remarks:				
Salarate mass aversal				
Sphagnum moss present				
V.				

#### VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: Prap008 Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: 20ft, x 20ft, ) % Cover Species? Status Number of Dominant Species 1. none That Are OBL, FACW, or FAC: Total Number of Dominant (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 50% of total cover: \_\_\_\_\_ 20% of total cover:\_\_\_\_ OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_ Sapling/Shrub Stratum (Plot size: 20f4. x 20ft.) FAC species \_\_\_\_\_ x 3 = \_\_\_\_ 1. hone FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_\_ (A) \_\_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_ 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: 20ff, x 20ff. ) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1. hohd <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 Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 Herb - All herbaceous (non-woody) plants, regardless \_ = Total Cover of size, and woody plants less than 3.28 ft tall. 50% of total cover: \_\_\_\_ \_ 20% of total cover:\_\_ Woody vine - All woody vines greater than 3.28 ft in

Woody Vine Stratum (Plot size: 20ft. x20ft.) height. 1. non-c Hydrophytic Vegetation Yes\_\_\_\_ No \* 0 = Total Cover Present? 50% of total cover: \_\_\_\_\_ 20% of total cover:\_\_\_ Remarks: (Include photo numbers here or on a separate sheet.) Sphagnum moss present; no other vegetation present

Profile Desc	ription: (Describe	to the depth ne			icator or confirm	n the ab	sence of indicators.)	
Depth	Matrix Calar (maint)	n/ - C	olor (moist)	Features	Type Loc²	Tax	ture Remai	rke
(inches)	Color (moist)	%C	olor (moist)	%	ype Loc	iex		
_0_							Rock/Bedra	Tele
-						_		
1Type: C=C	oncentration, D=Dep	lotion PM-Pode	ucod Matrix MS	-Macked S	and Grains	21 ocati	ion: PL=Pore Lining, M=Mat	riv
Hydric Soil		letion, RM-Redi	uced Matrix, Mc	-Waskeu S	and Granis.	LUCAL	Indicators for Problematic	
Histosol			_ Dark Surface	(\$7)			2 cm Muck (A10) (MLF	
and the second second	oipedon (A2)				(S8) (MLRA 147	. 148)	Coast Prairie Redox (A	
Black Hi					MLRA 147, 148)	, ,	(MLRA 147, 148)	
A THE RESERVE AND A STREET AND A STREET AND ASSESSMENT AND ASSESSMENT ASSESSM	n Sulfide (A4)		Loamy Gleye				Piedmont Floodplain S	oils (F19)
	Layers (A5)	_	_ Depleted Mat				(MLRA 136, 147)	
	ck (A10) (LRR N)	_	_ Redox Dark S				Red Parent Material (T	
Commence of the contract of th	Below Dark Surface		_ Depleted Dar		7)		Very Shallow Dark Sur Other (Explain in Remains	
A STATE OF THE PARTY OF THE PAR	ark Surface (A12) lucky Mineral (S1) (I		_ Redox Depre		(F12) (LRR N,		Other (Explain in Rema	arks)
	147, 148)	-KK N,	MLRA 13		(F12) (LKK N,			
E 20 1175 ALAS	leyed Matrix (S4)		_ Umbric Surfa		RA 136, 122)		3Indicators of hydrophytic	vegetation and
	edox (S5)				(F19) (MLRA 1	48)	wetland hydrology mus	
	Matrix (S6)						unless disturbed or pro	blematic.
Restrictive I	ayer (if observed):							
Type:								
Depth (inc	ches):					Hydi	ric Soil Present? Yes	No
Remarks:								
11	refusal @	SUFFACE	(Rock 1	had rock				
Auger	remisel w	3411	(1000)	DCD-, DON	)			
4								
7								



Seep data point prap008 facing southeast.



Seep data point PRAC127 facing southeast

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

Project/Site: Atlantic Coast Pipeline	City/County:	:	Sampling Date: 6/9/2016				
Applicant/Owner: Dominion		State: WV	Sampling Point: prae146				
Investigator(s): CG, SA Section, Township, Range:							
Landform (hillslope, terrace, etc.): road		ncave, convex, none): none					
Subregion (LRR or MLRA):	Lat: 38.497019	Long80.086484	Datum: WGS1984				
Soil Map Unit Name:		NWI classif	fication: UPL				
Are climatic / hydrologic conditions on the si							
Are Vegetation, Soil, or Hyd							
Are Vegetation, Soil, or Hyd							
SUMMARY OF FINDINGS – Attac							
SOMMANT OF FINDINGS – Attac	In site map showing sampling	g point locations, transect	is, important reatures, etc.				
	/es No Is the	e Sampled Area					
	∕es No✓ withi		No <u> </u>				
Wetland Hydrology Present?  Remarks:	/es No						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)				
Primary Indicators (minimum of one is requ	uired; check all that apply)	Surface So	il Cracks (B6)				
Surface Water (A1)	Sparsely V	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	) Drainage P	Drainage Patterns (B10)				
✓ Saturation (A3)	Living Roots (C3) Moss Trim	B) Moss Trim Lines (B16)					
Water Marks (B1)		Dry-Season Water Table (C2)					
Sediment Deposits (B2)							
Drift Deposits (B3)		Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	<del></del>	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)	23)		ic Position (D2)				
Inundation Visible on Aerial Imagery (		Shallow Aquitard (D3) Microtopographic Relief (D4)					
Water-Stained Leaves (B9) Aquatic Fauna (B13)	<del></del>	FAC-Neutral Test (D5)					
Field Observations:		<u> </u>	ai rest (D3)				
	No Depth (inches):						
<u> </u>	No Depth (inches):						
	No Depth (inches):0	Wetland Hydrology Prese	ent? Yes 🗸 No				
(includes capillary fringe)			163 <u></u> 110 <u></u>				
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, previous i	inspections), if available:					
Remarks:							

Sampling	Point pra	e146
Sambilliu	F OILL.	

•	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ) 1. none	% Cover 0	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				
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:
·· <del></del>	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species15 x 1 =15
Sapling/Shrub Stratum (Plot size: 15 )				FACW species15
1, none	0			FAC species0 x 3 =0
				FACU species35
				UPL species
3				Column Totals: 65 (A) 185 (B)
4		· ——		(1)
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 ≤3.0 <sup>1</sup>
2		= 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				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Urtica dioica	30	Yes	FACU	1 Toblematic Trydrophytic vegetation (Explain)
2. Impatiens capensis	15	Yes	FACW	Indicators of hydric coil and watland hydrology must
3. Carex gynandra	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Potentilla simplex	5	No	FACU	Definitions of Four Vegetation Strata:
5. Carex canescens	5	No	OBL	John Mone of Four Pogotation Gradua
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of 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.				
	65	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 32.5		total cover:		of size, and woody plants less than 5.25 it tall.
Woody Vine Stratum (Plot size: 30 )	2070 01			Woody vine – All woody vines greater than 3.28 ft in
1 none	0			height.
II	-			
2				
3				
4	-	· ——		Hydrophytic
5				Vegetation Present?  Yes No
50% of total cover: 0		= Total Cover	. 0	riesent: res No
0070 01 total 00701:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

SOIL Sampling Point: prae146

Profile Desc	cription: (Describe to	o the dep	th needed to docun	nent the i	ndicator	or confirm	the ab	sence of indicat	ors.)	
Depth	Matrix	,		x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks	
0-12	2.5YR 3/3	99	10YR 2/1	1	C	М		;		
								<del></del>		
-	-							<del></del>		
								<del></del>		
										_
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Locat	ion: PL=Pore Lin	ing, M=Matrix.	
Hydric Soil		,	,					Indicators for P	roblematic Hyd	ric Soils³:
Histosol			Dark Surface	(S7)					(A10) <b>(MLRA 14</b> 7	
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147	148)		e Redox (A16)	,
	stic (A3)		Tolyvalde Be				,	(MLRA 1		
	en Sulfide (A4)		Loamy Gleye			,0,			loodplain Soils (F	19)
	d Layers (A5)		Depleted Mat	,	- <del>-</del> )			(MLRA 1:		10)
	uck (A10) (LRR N)		Redox Dark \$		(6)			•	w Dark Surface (	TF12)
	d Below Dark Surface	(A11)	Depleted Dar						ain in Remarks)	11 12)
	ark Surface (A12)	(, , , , ,	Redox Depre					Other (Expire	am m reomane)	
	lucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Mangan			RR N.				
	A 147, 148)		MLRA 13		30 (i 12) <b>(</b> i					
	Gleyed Matrix (S4)		Umbric Surfa		MI RA 13	6. 122)		<sup>3</sup> Indicators of h	nydrophytic veget	tation and
	Redox (S5)		Piedmont Flo				IS)		ology must be pre	
-	Matrix (S6)		Red Parent N					-	oed or problemat	
	Layer (if observed):		Red r drent is	iatoriai (i	21) (IIIII	A 127, 147	<del>'</del>	arricos distart	oca or problemat	10.
Type: CL	AY									
										./
Depth (in	ches): <u> </u>						Hydr	ic Soil Present?	Yes	No
Remarks:										
Roadbed										



Seep data point prae146 facing north



Seep data point PRAE115 facing northwest



Seep data point PRAE116 facing west