Project/Site: SERP	City/County: Upshur		Sampling Date: 6/26/2014
Applicant/Owner: DOMINION		State: WV	_ Sampling Point: WUPA009_u
Investigator(s):	Section, Township, R	ange: No PLSS in this Area	
Landform (hillslope, terrace, etc.): SIDESLOPE	Local relief (concave, co	nvex, none): <u>none</u>	Slope (%): <u>40</u>
Subregion (LRR or MLRA): N Lat: 38.9264	2554 Lc	ng: <u>-80.24069475</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 8 to 15 percent slopes		NWI classifica	tion: None
Are climatic / hydrologic conditions on the site typical for this tim	ie of year? Yes <u>/</u> No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed? Are	e "Normal Circumstances" pr	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nature	ally problematic? (If r	needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point	locations, transects,	important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point taken on a sideslope a	above a concav	e erosional feat	ure that has reached the water ta	ble	

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

Sampling Point: WUPA009_u

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
Liriodendron tulipifera	20	Yes	FACU	That Are OBL, FACW, or FAC: ⁵ (A)
2 Acer saccharum	20	Yes	FACU	
2. Quercus rubra	15	No	FACU	Total Number of Dominant
A Fraxinus pennsylvanica	8	No	FACW	Species Across All Strata: (B)
- Acer rubrum	7	No	FAC	Percent of Dominant Species
	7	No	FACU	That Are OBL, FACW, or FAC: <u>62.5</u> (A/B)
6. Carya ovala				Prevalence Index worksheet
7				Total % Cover of: Multiply by:
		= Total Cove	er AFA	
50% of total cover:	<u>38.5</u> 20% of	total cover:	15.4	$\begin{array}{c} \text{OBL species} \\ \hline 43 \\ \hline 86 \\ \hline \end{array}$
Sapling/Shrub Stratum (Plot size: 15)			FACW species 44 x 2 = 40
1. Carpinus caroliniana	20	Yes	FAC	FAC species 44 x 3 = 132
_{2.} Rosa multiflora	10	Yes	FACU	FACU species x 4 =288
3.				UPL species0 x 5 =0
4				Column Totals: (A) (B)
т. <u> </u>				
5				Prevalence Index = B/A =3.18
6				Hydrophytic Vegetation Indicators:
7	·			1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				$\frac{1}{2} = 2 \text{ Browalance Index is } < 2 \text{ 0}^1$
	30	= Total Cove	er	$ - 3 - \text{Prevalence index is } \geq 5.0 $
50% of total cover:	15 20% of	total cover:	6	4 - Morphological Adaptations' (Provide supporting
Herb Stratum (Plot size: 5)		_		data in Remarks or on a separate sheet)
1 Impatiens capensis	20	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
o Boehmeria cylindrica	15	Yes	FACW	
		No	EAC	¹ Indicators of hydric soil and wetland hydrology must
3			TAC	be present, unless disturbed or problematic.
4	·			Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7.				height.
8				
Q				Sapling/Shrub – Woody plants, excluding vines, less
10	·			m) tall
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	10.5	= Total Cove	er 70	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	<u>19.3</u> 20% of	total cover:	7.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)			height.
1. Smilax rotundifolia	8	Yes	FAC	
2. Toxicodendron radicans	5	Yes	FAC	
3.				
4				
5				Hydrophytic
J	13			Present? Yes V
EQU/ of total acutor	6.5 20% of		2.6	
50% Of total cover.	20% 01	total cover:		
Remarks: (Include photo numbers here or on a sep	barate sheet.)			

Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the ir	dicator o	or confirm	the absence of	indicato	rs.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-5	10YR 3/4	100					CL			
5-20	10YR 4/4	100					CL			
				·	<u> </u>					
				·	·					
					. <u> </u>					
¹ Tvpe: C=C	oncentration. D=Deple	etion. RM=F	Reduced Matrix. MS	S=Masked	Sand Gra	uins.	² Location: PL=I	Pore Linir	ng. M=Matrix	
Hydric Soil	Indicators:		, , ,				Indicato	rs for Pr	oblematic H	ydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2 cm	n Muck (A	10) (MLRA	147)
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) (M	LRA 147,	148) Coa	st Prairie	Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(N	/ILRA 147	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		Pied	lmont Flo	odplain Soils	s (F19)
Stratifie	d Layers (A5)		Depleted Mat	rix (F3)			(N	/LRA 13	6, 147)	
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F6	5)		Very	Shallow	Dark Surfac	e (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Othe	er (Explai	n in Remarks	5)
	ark Surface (A12)		Redox Depre	SSIONS (F8) a (E12) (1					
Sandy N	/IUCKY IVIITIETAI (51) (L	KK N,			s (F12) (KKN,				
Sandy (Gleved Matrix (S4)		Umbric Surfa	7) Ce (F13) (I		6 122)	³ Indica	tors of hy	dronhvtic ve	detation and
Sandy F	Redox (S5)		Piedmont Flo	odolain Sc	oils (F19)	(MI RA 14	8) wetla	nd hydrol	oav must be	present
Stripped	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR/	A 127. 147) unles	s disturbe	ed or problen	natic.
Restrictive	Layer (if observed):				/ (,				
Type: N	ONE									
Depth (in	ches):						Hydric Soil Pr	esent?	Yes	No 🖌
Remarks:							1			



Photo 1 Upland data point WUPA009_u facing east



Photo 2 Upland data point WUPA009_u facing west

Project/Site: Atlantic Coast Pipeline	City/County: Upshur County	Si	ampling Date: <u>6/7/2016</u>
Applicant/Owner:		State: WV	Sampling Point: wupe002e_w
Investigator(s): CG, SA	Section, Township, Range: No	PLSS in this area	
Landform (hillslope, terrace, etc.): road cut	Local relief (concave, convex, no	ne): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.92	93765 Long: <u>-80.</u>	23789103	Datum: WGS 1984
Soil Map Unit Name: Gilpin silt loam, 8 to 15 percent slopes		NWI classification	on: PEM
Are climatic / hydrologic conditions on the site typical for this t	ime of year? Yes 🗹 No	(If no, explain in Rem	arks.)
Are Vegetation, Soil _ 🖌 , or Hydrology _ 🖌 sig	nificantly disturbed? Are "Norma	I Circumstances" pres	sent? Yes No 🗹
Are Vegetation, Soil, or Hydrology nat	turally problematic? (If needed, e	explain any answers i	n Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>v</u> No Yes <u>v</u> No Yes <u>v</u> No	0 0	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
 Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2) bils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	
Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Ves No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective) No No	Wetland Hydrology Present? Yes No tions), if available:

Sampling Point: wupe002e_w

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:	30)	% Cover	Species?	Status	Number of Dominant Species	
1. none		0			That Are OBL. FACW. or FAC: 4	(A)
2						()
2					Total Number of Dominant	
3			·	·	Species Across All Strata:	(B)
4					Percent of Dominant Species	
5			. <u> </u>	. <u> </u>	That Are OBL, FACW, or FAC:100	(A/B)
6						. ,
7.					Prevalence Index worksheet:	
		0	- Total Cove		Total % Cover of: Multiply by:	
	50% of total covor: 0	20% of	total cover:	0	OBL species $25 \times 1 = 25$	
	15 .	20% 01	total cover.		EACW species 120 x 2 = 240	
Sapling/Shrub Stratum (Plot size	:)	0			$\frac{1}{1} = \frac{1}{1} = \frac{1}$	
1. <u>none</u>		0			FAC species x 3 = 0 0	
2					FACU species $x 4 = 0$	
3.					UPL species x 5 =	
4					Column Totals:145 (A)265	(B)
			·	<u> </u>		,
5					Prevalence Index = B/A = 1.82	
6					Hydrophytic Vegetation Indicators:	
7			. <u> </u>	. <u> </u>	1 - Rapid Test for Hydrophytic Vegetation	
8					O Deminence Test is: 50%	
9					2 - Dominance Test Is >50%	
0. <u></u>		0	Total Cove		Y 3 - Prevalence Index is ≤3.0 ⁺	
	=0% of total cover: 0			0	4 - Morphological Adaptations ¹ (Provide supp	orting
	5 5	20% 01	total cover.		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size:	<u> </u>	10			Problematic Hydrophytic Vegetation ¹ (Explain	n)
1. Antnoxantnum nirtum		40	Yes	FACW		.,
2. Eleocharis tenuis		25	Yes	FACW	1	
_{3.} Poa sylvestris		20	Yes	FACW	Indicators of hydric soil and wetland hydrology m	ust
A Impatiens capensis		20	Yes	FACW	be present, unless disturbed of problematic.	
- Typha X glauca		15	No	OBL	Definitions of Four Vegetation Strata:	
5. //p//d > (gladed		10			Tree – Woody plants, excluding vines 3 in (7.6 c	m) or
6. Juncus emusus		10		FACW	more in diameter at breast height (DBH), regardle	ess of
7. Carex vulpinoidea		10	No	OBL	height.	
8. Eupatorium perfoliatum		5	No	FACW		
9.					Sapling/Shrub – Woody plants, excluding vines,	less
10					m) tall.	
10						
11		145			Herb – All herbaceous (non-woody) plants, regard	dless
	70 5	140	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.	
	50% of total cover: 72.5	20% of	total cover:	29	Woody vine – All woody vines greater than 3.28	ft in
Woody Vine Stratum (Plot size:)				height.	
1. none		0				
2						
2						
3						
4			. <u> </u>	<u> </u>	Hydrophytic	
5			·		Vegetation	
		0	= Total Cove	er	Present? Yes <u>Ves</u> No	
	50% of total cover: 0	20% of	total cover:	0		
Remarks: (Include photo number	rs here or on a separate s	heet.)				
· · ·		,				

Profile Des	cription: (Describe to	o the dep	th needed to docur	nent the i	indicator of	or confirm	the absence of ir	dicators.)	
Depth	Matrix	Matrix Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
-									
0-6	10YR 4/2	95	10YR 4/6	5	С	PL	SICL		
	;						·		
		. <u> </u>		. <u> </u>					
¹ Type: C=C	oncentration. D=Deple	etion. RM=	Reduced Matrix. M	S=Masked	d Sand Gra	ains.	² Location: PL=Pc	re Lining, M=Matrix	
Hydric Soil	Indicators:	,					Indicators	for Problematic H	ydric Soils ³ :
Histoso	l (A1)		Dark Surface	e (S7)			2 cm 1	Muck (A10) (MLRA	47)
Histic E	pipedon (A2)		Polyvalue Be	elow Surfa	ice (S8) (N	ILRA 147,	148) Coast	Prairie Redox (A16)	,
Black H	istic (A3)		Thin Dark Su	urface (S9) (MLRA 1	47, 148)	, <u> </u>	.RA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)		Piedm	ont Floodplain Soils	(F19)
Stratifie	d Layers (A5)		 Depleted Ma 	trix (F3)			(ML	.RA 136, 147)	
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F	-6)		Very S	Shallow Dark Surface	e (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Date	rk Surface	e (F7)		Other	(Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (F	8)				
Sandy M	Mucky Mineral (S1) (Ll	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,			
MLR	A 147, 148)		MLRA 13	6)					
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13)	(MLRA 13	6, 122)	³ Indicato	rs of hydrophytic ve	getation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	(8) wetland	I hydrology must be	present,
Stripped	d Matrix (S6)		Red Parent M	Material (F	21) (MLR	A 127, 147	7) unless	disturbed or problem	atic.
Restrictive	Layer (if observed):								
Type: R	OCK								
Depth (in	ches): 6						Hydric Soil Pres	sent? Yes 🖌	No
Remarks:							•		
Refueal at 6 i	n								



Wetland data point wupe002e_w facing south



Wetland data point wupe002e_w facing north

Project/Site: Atlantic Coast Pipeline	City/County:	Upshur County	_ Sampling Date: <u>6/7/2016</u>
Applicant/Owner: Dominion		State: WV	Sampling Point: wupe002_u
Investigator(s): CG, SA	Section, Tow	nship, Range: No PLSS in this are	ea
Landform (hillslope, terrace, etc.): road	Local relief (cond	cave, convex, none): <u>none</u>	Slope (%): <u>0</u>
Subregion (LRR or MLRA): N Lat: 38.92	935115	Long: <u>-80.23794911</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin silt loam, 8 to 15 percent slopes		NWI classif	ication: UPL
Are climatic / hydrologic conditions on the site typical for this t	time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation <u>·</u> , Soil <u>·</u> , or Hydrology <u>·</u> sig	nificantly disturbed?	Are "Normal Circumstances"	present? Yes No _
Are Vegetation, Soil, or Hydrology nat	turally problematic?	(If needed, explain any answ	ers in Remarks.)
		• • • • • •	• • • • • •

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

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

wetiand 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	3) Moss Trim Lines (B16)		
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	Microtopographic Relief (D4)		
Aquatic Fauna (B13)	FAC-Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes No 🖌 Depth (inches):			
Water Table Present? Yes No 🖌 Depth (inches):			
Saturation Present? Yes No Ver Depth (inches): Wetland	d Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	vailable:		
Remarks:			
Remarks: no hydrology			

Sampling Point: <u>wupe002_u</u>

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC: 0 (A)
2.				
3				I otal Number of Dominant Species Across All Strata: 0 (B)
4				
				Percent of Dominant Species
o				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cove	r	
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =
1. none	0			FAC species x 3 =
2.				FACU species x 4 =
3				UPL species x 5 =
<u>.</u>				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9.				
	0	- Total Cove		3 - Prevalence Index is ≤3.0'
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Blot size: 5)	2070 01	10101 00 001.		data in Remarks or on a separate sheet)
	0			Problematic Hydrophytic Vegetation ¹ (Explain)
1			·······	
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata
5.				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
7				neight.
8			·······	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All berbaceous (non-woody) plants, regardless
	0	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0	20% of	total cover:	0	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
1 none	0			
1				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No V
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	theet)			1
Gravel road	neet.)			
Glaverioau				

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the inc	dicator o	or confirm	the absence	e of indicato	ors.)
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
									· · · · · · · · · · · · · · · · · · ·
				<u> </u>				·	
				<u> </u>					
								· · · · · · · · · · · · · · · · · · ·	
								·	
·						·			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked S	Sand Gra	iins.	² Location: F	PL=Pore Linir	ng, M=Matrix.
Hydric Soil	Indicators:						Indic	ators for Pr	oblematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A	\10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surface	e (S8) (M	LRA 147,	148) (Coast Prairie	Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) (MLRA 1	47, 148)		(MLRA 14	7, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2	2)		F	Piedmont Flo	odplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mar	trix (F3)				(MLRA 13	6, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F6))			/ery Shallow	Dark Surface (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dar	k Surface (I	F7)		0	Other (Explai	n in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F8)					
Sandy N	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) (L	.RR N,			
	A 147, 148)		MILRA 13	b)		400	31	diantana af hu	
Sandy G	bieyed Matrix (54)		Uniblic Suna	ice (F13) (IVI Iodalaia Sail		0, 122) (MI DA 14)	III 9)	atland bydrol	and must be present
Sanuy R	Motrix (S6)		Fleditionit Fit	Antorial (E21	15 (F19) (1) (MI D	(WILKA 140 1 1 27 1 17	6) W	elianu nyurui	od or problomatic
Supped	aver (if observed):			nateriai (FZ		4 127, 147) ui I		
Tures	Layer (il observeu).								
Type:									· · · · ·
Depth (ind	ches):						Hydric Soi	I Present?	Yes <u>No</u>
Remarks:									
gravel road									
1									



Upland data point wupe002_u facing south



Upland data point wupe002_u facing north

Project/Site: Atlantic Coast Pipeline	City/County: Upshur County		Sampling Date: 6/7/2016		
Applicant/Owner:		State: WV	Sampling Point: wupe003e_w		
Investigator(s): CG, SA	Section, Township, Range: N	o PLSS in this area			
Landform (hillslope, terrace, etc.): slope	Local relief (concave, convex, no	ne): <u>none</u>	Slope (%): <u>3</u>		
Subregion (LRR or MLRA): N Lat: 38.9265981	4 Long: <u>-80</u>	23757969	Datum: WGS 1984		
Soil Map Unit Name: Gilpin stony silt loam, 15 to 35 percent slopes		NWI classificat	ion: PEM		
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes 🖌 No	(If no, explain in Rer	marks.)		
Are Vegetation, Soil, or Hydrology significan	tly disturbed? Are "Norma	I Circumstances" pre	esent? Yes No _		
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed,	explain any answers	in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>v</u> No Yes <u>v</u> No Yes <u>v</u> No	0 0	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
 Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2) bils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓
Field Observations:	
Water Table Present? Yes ✓	Wetland Hydrology Present? Yes <u>V</u> No

Sampling Point: wupe003e_w

	Abaaluta	- Dominant li	adioator	Dominance Test worksheet
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksneet.
	0	<u>opecies:</u>	Olalus	Number of Dominant Species
1. <u></u>		·	. <u> </u>	That Are OBL, FACW, or FAC: (A)
2.				
2				Total Number of Dominant
^{3.}		·		Species Across All Strata: (B)
4				Demonstrat Deminent Creation
5				Percent of Dominant Species 100
		·		That Are OBL, FACVV, of FAC: (A/B)
6				Drevelance in dev warkels est
7.				Prevalence index worksneet:
	0	Tatal Cause		Total % Cover of: Multiply by:
		= Total Cove	r O	OBI species 10 x 1 - 10
50% of total cover: 0	20% of	total cover:	0	$\frac{105}{105} \times 1 = \frac{105}{105}$
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x 2 = 210$
, none	0			EAC species $0 \times 3 = 0$
1		·		
2.				FACU species $x 4 = $
2				UPL species $0 \times 5 = 0$
J		·		115 (1) 220 (5)
4				Column Totals: (A) (B)
5		_	_	
·		·	·	Prevalence Index = B/A = 1.91
6				Hydronhytic Vegetation Indicators:
7.				
··				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9.				
	0			Y 3 - Prevalence Index is ≤3.0'
0		= Total Cove	r	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sneet)
Anthoxanthum birtum	40	Vaa		Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Anthoxanthum militum</u>	40	res	FACW	
2. Eleocharis tenuis	30	Yes	FACW	
	25	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
3. 0011003 0110003		103	1 4011	be present, unless disturbed or problematic.
4. Poa sylvestris	10	No	FACW	Definitions of Four Vegetation Strata
E Scirpus atrovirens	10	No	OBL	Deminions of Four vegetation Strata.
5. <u></u>			000	Tree – Woody plants, excluding vines 3 in (7.6 cm) or
6				mere in diameter at breast beight (DBH), regardless of
7				hoight
··		·		neight.
8				Sanling/Shrub Woody plants excluding vines loss
9				than 2 in DBH and greater than or equal to 2.28 ft (1
		·		m) toll
10		·		III) tall.
11				Herb - All berbaceous (non-woody) plants, regardless
	115	Total Cava	-	of size, and woody plants less than 3.28 ft tall
57.6			23	
50% of total cover:	20% of	total cover:	23	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height
1 none	0			
[[. <u></u>		·		
2				
3				
^{3.}				
4				Hydrophytic
5				Vegetation
	0			Present? Yes V No
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a senarate s	hoot)			
	1001.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	x Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 4/1	95	10YR 4/6	5	С	М	CL			
			·							
¹ Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore	e Lining, M=Matrix		
Hydric Soil	Indicators:	,					Indicators f	or Problematic H	ydric Soils ³ :	
Histosol	(A1)		Dark Surface	(S7)			2 cm M	uck (A10) (MLRA	147)	
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	LRA 147,	148) Coast P	rairie Redox (A16)	
Black Hi	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLR	A 147, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmo	nt Floodplain Soils	s (F19)	
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(MLR	A 136, 147)		
2 cm Mu	uck (A10) (LRR N)		Kedox Dark	Surface (F	6)		Very Shallow Dark Surface (TF12)			
Depleted	d Below Dark Surface	e (A11)	Depleted Date	k Surface	(F7)		Other (E	Explain in Remark	5)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (Fa	3)					
Sandy M	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) (I	_RR N,				
MLRA	A 147, 148)		MLRA 13	6)						
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (MLRA 13	6, 122)	³ Indicators	of hydrophytic ve	getation and	
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetland h	nydrology must be	present,	
Stripped	I Matrix (S6)		Red Parent M	/laterial (F	21) (MLR	A 127, 147	') unless di	sturbed or probler	natic.	
Restrictive	Layer (if observed):									
Type: RC	DCK									
Depth (in	ches): <u>6</u>						Hydric Soil Prese	ent? Yes 🖌	No	
Remarks:							1			
Refusal at 6										



Wetland data point wupe003e_w facing south



Wetland data point wupe003e_w facing east

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/County: L	Jpshur County	Sampling Date: <u>6/7/2016</u>			
Applicant/Owner: Dominion		State: WV	Sampling Point: wupe003_u			
Investigator(s): CG, SA	Section, Town	Section, Township, Range: No PLSS in this area				
Landform (hillslope, terrace, etc.): slope	Local relief (co	oncave, convex, none): <u>none</u>	Slope (%): <u>10</u>			
Subregion (LRR or MLRA): N	at: <u>38.92649492</u>	Long: <u>-80.23762573</u>	Datum: WGS 1984			
Soil Map Unit Name: Gilpin stony silt loam, 15 to 35 percent	slopes	NWI class	ification: UPL			
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	No (If no, explain ir	n Remarks.)			
Are Vegetation, Soil, or Hydrology si	gnificantly disturbed?	Are "Normal Circumstances	s" present? Yes 🗹 No			
Are Vegetation, Soil, or Hydrology na	aturally problematic?	(If needed, explain any ans	wers in Remarks.)			
SUMMARY OF EINDINGS - Attach site man	showing sampling	noint locations transec	ts important features etc			

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living F	Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils ((C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Ves No V
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions) if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: No hydrology	tions), if available:

Sampling Point: <u>wupe003_u</u>

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 50)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. none	0	·		That Are OBL, FACW, or FAC: (A)
2	·	. <u> </u>		Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Demont of Dominant Crossica
5				That Are OBL_FACW_or_FAC' 100 (A/B)
6.				
7.	·			Prevalence Index worksheet:
8	·			Total % Cover of: Multiply by:
0	0	- Total Cov		OBL species $0 x ext{ 1} = 0$
	2001/		0	FACW species $0 x 2 = 0$
	20% 01	r total cover:		FAC species 150 x 3 = 450
Sapling/Shrub Stratum (Plot size: 15)	0			EACU species $60 \times 4 = 240$
1. <u>none</u>	0	. <u> </u>		$\frac{10}{10} \times 5 = \frac{50}{50}$
2	·			$\frac{220}{220}$
3				
4				Prevalence Index = $B/A = 3.36$
5				Hydrophytic Vegetation Indicators:
6.				1 - Panid Test for Hydrophytic Vegetation
7				
8	·			
0	0	- Total Cov		3 - Prevalence Index is ≤3.0°
	2001/		0	Problematic Hydrophytic Vegetation' (Explain)
50% of total cover:	20% 01	total cover:		
Herb Stratum (Plot size:)	150	Maa	FAC	¹ Indicators of hydric soil and wetland hydrology must
1. Panicum virgatum	150	Yes	FAC	be present, unless disturbed or problematic.
2. Trifolium repens	25	No	FACU	Definitions of Four Vegetation Strata:
3. Rosa multiflora	15	No	FACU	Tree – Woody plants, excluding vines 3 in (7.6 cm) or
4. Daucus carota	10	No	UPL	more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	10	No	FACU	height.
6. Poa pratensis	5	No	FACU	Sapling/Shrub - Woody plants, excluding vines, less
7 Achillea millefolium	5	No	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	·			
0	·			Herb – All herbaceous (non-woody) plants, regardless
9	·	<u> </u>		or size, and woody plants less than 3.20 it tall.
10	·	·		Woody vine – All woody vines greater than 3.28 ft in
11	·			height.
12	·	<u> </u>		
	220	= Total Cov	er	
50% of total cover:10) 20% of	f total cover:	44	
Woody Vine Stratum (Plot size:30)				
1. none	0			
2.				
3				
4	·			
+	·			
5				Hydrophytic
0		= Total Cov	er	Present? Yes No
50% of total cover:	20% of	f total cover:		
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL

Profile Desc	ription: (Describe t	o the depth	n needed to docur	nent the in	dicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100					CL	
				·				
<u> </u>								
				·				
<u> </u>								
1 T					Cand Or		21	DI - Dava Lizing M-Matrix
Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	S=Masked	Sand Gr	ains.	Location:	PL=Pore Lining, M=Matrix.
Hydric Soli I	ndicators: (Applica	ible to all L	RRS, UNIESS OTHE	wise note	a.)		Indicators	for Problematic Hydric Solls :
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (L	.RR S, T, U)	1 cm N	1uck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su	irface (S9)	(LRR S,	T, U)	2 cm N	luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck	y Mineral (I	F1) (LRR	l O)	Reduc	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Piedm	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)			Anoma	alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F6	5)		(MLF	RA 153B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Depleted Date	rk Surface	(F7)		Red Pa	arent Material (TF2)
Muck Pr	esence (A8) (LRR U)		Redox Depre	essions (F8)		Very S	hallow Dark Surface (TF12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (L	.RR U)			Other ((Explain in Remarks)
Depleted	Below Dark Surface	e (A11)	Depleted Oc	nric (F11) (MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (LRR O, P, T) ³ Indic	ators of hydrophytic vegetation and
Coast Pr	rairie Redox (A16) (M	ILRA 150A)	Umbric Surfa	ice (F13) (L	_RR P, T	, U)	wet	land hydrology must be present,
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)		unle	ess disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (N	ILRA 15	0A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 149	A)	
Stripped	Matrix (S6)		Anomalous E	Bright Loam	ny Soils (F20) (MLRA	149A, 153C	, 153D)
Dark Su	face (S7) (LRR P, S	, T, U)						
Restrictive L	_ayer (if observed):							
Type: Ro	ck							
Depth (inc	ches) [.] 6						Hydric Soil	Present? Yes No 🗸
Departies:								
Remarks:								
Refusal at 6								



Upland data point wupe003_u facing south



Upland data point wupe003_u facing east

Project/Site: SERP	City/County: Upshur	S	Sampling Date: 6/30/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB009f_w
Investigator(s): TP	Section, Township, Ran	ge: No PLSS in this Area	
Landform (hillslope, terrace, etc.): drainageway	_ Local relief (concave, conv	ex, none): <u>concave</u>	Slope (%):2
Subregion (LRR or MLRA): N Lat: 38.88703	956 Long	j: <u>-80.189352</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loams,	3 to 15 percent slopes	NWI classificat	ion: None
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes 🖌 No	(If no, explain in Rer	narks.)
Are Vegetation, Soil, or Hydrology signific	cantly disturbed? Are "N	Normal Circumstances" pre	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natural	Ily problematic? (If nee	eded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	wing sampling point lo	cations, transects, i	important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: wetland located along toe of slope, disse	cted by SUPB0	010			

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 (E	.14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odo	r (C1) Drainage Patterns (B10)
✓ Saturation (A3) ✓ Oxidized Rhizosphere	s on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced	Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction	in Tilled Soils (C6) <u> </u> Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C	7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Rem	arks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🔽 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u><</u> No <u>Depth</u> (inches): ¹	⁾ Wetland Hydrology Present? Yes <u>✓</u> No
(includes capillary fringe)	ique inspections) if queilable:
Describe Recorded Data (stream gauge, monitoring well, aenal photos, prev	ious inspections), il available.
Remarks:	

Sampling Point: WUPB009f_w

	Absoluto	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksheet.
Liriodendron tulinifera	60	Yes	FACU	Number of Dominant Species
	15	Vee	EACU	That Are OBL, FACW, or FAC: (A)
2. <u>Acer saccharum</u>	15	res	FACU	Total Number of Dominant
3				Species Across All Strate: 7 (B)
		·		
4				Percent of Dominant Species
5				That Are OBL_EACW or EAC: 57.14285714 (A/B)
6				
0		·		Prevalence Index worksheet:
7		·		
	75	= Total Cove	r	<u>I otal % Cover of:</u> Multiply by:
50% of total cover: 37.5	20% of	total cover:	15	OBL species x 1 =
$\frac{1}{15}$		<u>-</u>		EACW species $25 \times 2 = 50$
Sapiing/Shrub Stratum (Plot size:)				$\frac{25}{25}$ $\frac{75}{25}$
1. Rhododendron maximum	10	Yes	FAC	FAC species 26 $x^3 = 040$
2 Hamamelis virginiana	10	Yes	FACU	FACU species $\frac{85}{x4} = \frac{340}{x4}$
2		·		11PL species 0 x 5 - 0
3		·		135 465
4.				Column Totals: (A) (B)
5				
J			·	Prevalence Index = $B/A = $ 3.44
6				Hydrophytic Vegetation Indicators:
7				Tryurophytic vegetation indicators:
· ·		·		1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9.				
	20	- Total Covo	r	3 - Prevalence Index Is ≤3.0
500/ of total array 10			4	4 - Morphological Adaptations ¹ (Provide supporting
	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5)				
1 Packera aurea	15	Yes	FACW	Problematic Hydrophytic Vegetation' (Explain)
Athyrium contonicidoo	15	Vee	EAC	
2. Autynum aspienioldes	10	165	FAC	¹ Indicators of hydric soil and wotland hydrology must
_{3.} Osmundastrum cinnamomeum	10	Yes	FACW	he present upless disturbed or problematic
1				be present, unless disturbed of problematic.
4		·		Definitions of Four Vegetation Strata:
5				
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
1		·		height.
8		·		Contine/Chrysh Weeds plants such stranging vises lass
9				Sapling/Shrub – woody plants, excluding vines, less
s		·		
10				III) tan.
11				Herb - All berbaceous (non-woody) plants, regardless
	40	- Total Covo	r	of size and woody plants less than 3.28 ft tall
500 (a f tatal a super 20			8	
50% of total cover: 20	20% of	total cover:	0	Woody vine – All woody vines greater than 3 28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
I		·		
2		·		
3.				
4				
4		·		Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes Vo No
E0% of total cover:	20% of		0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Cinches) Color (moist) % Color (moist) % Type Loc ² Texture Remarks 0-12 10YR 3/1 95 10YR 4/6 5 C PL SICL SICL	Depth	Matrix		Redo	x Features	S				
0-12 10YR 3/1 95 10YR 4/6 5 C PL SICL Image: Single Sin	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	S
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators: Indicators for Problematic Hydric Soils Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147, 148) Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) Stratified Layers (A5) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) Stratified Below Dark Surface (A11) Depleted Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, and cators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 127, 147) and cators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Trick Layer (if observed): Type: The dark field (F12) (MLRA 127, 147) and cators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or probl	0-12	10YR 3/1	95	10YR 4/6	5	C	PL	SICL		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. tydric Soil Indicators: Indicators for Problematic Hydric Soils Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147) 2 cm Muck (A10) (LRR N) ✓ Redox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.										
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ydric Soil Indicators: Indicators for Problematic Hydric Soils										
	Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	lins.	² Location: PL=P Indicator	ore Lining, M=Matri s for Problematic	x. Hvdric Soils ³ :
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147) Xedox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, Other (Explain in Remarks) Sandy Gleyed Matrix (S4) Iron-Manganese Masses (F12) (LRR N,	Histosol Histic E Black H Hydroge	(A1) pipedon (A2) istic (A3) en Sulfide (A4)		Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye	e (S7) elow Surfa urface (S9) ed Matrix (ce (S8) (M) (MLRA 1 F2)	LRA 147, 47, 148)	2 cm 148) Coas (M Piedr	Muck (A10) (MLRA t Prairie Redox (A10 LRA 147, 148) nont Floodplain Soi	6) Is (F19)
 Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Stripted Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) 	Stratifie 2 cm Mu Deplete Thick Da	d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Ma Redox Dark Depleted Da Redox Depre	trix (F3) Surface (F rk Surface essions (Fa	б) (F7) 8)		(M Very Other	L RA 136, 147) Shallow Dark Surfa r (Explain in Remar	ce (TF12) ks)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Restrictive Layer (if observed): Type:	Sandy M MLR/ Sandy C	Mucky Mineral (S1) (L A 147, 148) Gleyed Matrix (S4)	RR N,	Iron-Mangan MLRA 13 Umbric Surfa	ese Mass 6) ace (F13) (es (F12) (L	-RR N, 6, 122)	³ Indicate	ors of hydrophytic v	egetation and
Restrictive Layer (if observed): Type:	Sandy F Stripped	Redox (S5) I Matrix (S6)		Red Parent I	odplain S Material (F	oils (F19) (21) (MLR/	(MLRA 14 A 127. 147	8) wetlan 7) unless	d hydrology must b disturbed or proble	e present, matic.
	Restrictive	Layer (if observed):					,			
	Type:							Ukadaia Cail Daa		Na
		cnes).						Hydric Soli Pie	Sent? Tes	



Photo 1 Wetland data point WUPB009f_w facing east



Photo 2 Wetland data point WUPB009f_w facing west

Project/Site: SERP	City/Co	unty: Upshur	Samplin	g Date: 6/30/2014
Applicant/Owner: Dominion		Sta	ite: <u>WV</u> Samp	ling Point: <u>WUPB009_u</u>
Investigator(s): TP	Section	n, Township, Range: <u>No PLS</u>	S in this Area	
Landform (hillslope, terrace, etc.): hillslo	ppe Local relie	f (concave, convex, none): <u>n</u>	one	Slope (%): <u>40</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88703731</u>	Long: <u>-80.18943</u>	6024	Datum:_WGS 1984
Soil Map Unit Name: Buchanan and Err	nest very stony silt loams, 3 to 15 perc	ent slopes	NWI classification: <u>No</u>	one
Are climatic / hydrologic conditions on th	ne site typical for this time of year? Ye	s 🖌 No (If no,	explain in Remarks.)	
Are Vegetation, Soil, or	Hydrology significantly disturb	ed? Are "Normal Circu	umstances" present?	Yes 🖌 No
Are Vegetation, Soil, or	Hydrology naturally problemat	ic? (If needed, explain	n any answers in Rem	narks.)

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living I	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches):	Wetland Hydrology Present? Yes No
(Includes capillary fringe) Describe Recorded Data (stream gauge monitoring well aerial photos, previous inspect	ions) if available:
Remarks:	

Sampling Point: WUPB009_u

SUNumber of Dominant Species That Are OBL, FACW, or FAC:2(A)Total Number of Dominant Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:33.3333333333333333333333333333333333
UNumber of Dominant Species2(A)That Are OBL, FACW, or FAC:2(A)Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:33.333333333 (A/B)Prevalence Index worksheet:33.333333333 (A/B)OBL species0x 1 =FACW species0x 2 =FACW species0x 3 =FACW species0x 5 =Oy 5 =0FACU species0x 5 =Ournet Totals:115(A)CUPL species0Prevalence Index = B/A =3.82Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Initial Ale OBL, FACW, of FAC.(A)Total Number of Dominant Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33333333 (A/B)Prevalence Index worksheet: 33.333333333 (A/B)OBL species0 $x 1 = 0$ FACW species0 $x 2 = 0$ FACW species0 $x 2 = 0$ FACW species0 $x 3 = 60$ FACU species95 $x 4 = 380$ UPL species0 $x 5 = 0$ Column Totals:115(A)Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation 1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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Species Across All Strata:6(B)Percent of Dominant Species That Are OBL, FACW, or FAC:33.3333333333333333333333333333333333
Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33333333</u> (A/B) Prevalence Index worksheet: <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>95</u> x 4 = <u>380</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>115</u> (A) <u>440</u> (B) <u>Prevalence Index = B/A = <u>3.82</u> Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is $\leq 3.0^1$ <u>4</u> - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <u>Column 1</u> - Robert Hydrophytic Vegetation 1 (Explain) <u>11</u> - Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</u>
Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33333333</u> (A/B) Prevalence Index worksheet: <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FAC species <u>95</u> x 4 = <u>380</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>115</u> (A) <u>440</u> (B) Prevalence Index = B/A = <u>3.82</u> Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is $\leq 3.0^1$ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
That Are OBL, FACW, or FAC: <u>33.3333333333333333333333333333333333</u>
Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0x 1 =FACW species0x 2 =FACW species20x 3 =FAC species95x 4 =SUFACU species95x 4 =FACU species0x 5 =0Column Totals:115(A)440Prevalence Index = B/A =3.82Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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$\frac{\text{Total \% Cover of:}}{\text{OBL species}} \frac{\text{Multiply by:}}{x 1 = 0}$ $FACW \text{ species} \frac{0}{x 2 = 0}$ $FACW \text{ species} \frac{20}{x 3 = 60}$ $FAC \text{ species} \frac{95}{x 4 = 380}$ $UPL \text{ species} \frac{0}{x 5 = 0}$ $C \text{ UPL species} \frac{115}{(A)} \frac{440}{(B)}$ $\frac{\text{Prevalence Index} = B/A = 3.82}{(A)}$ $\frac{1 - \text{Rapid Test for Hydrophytic Vegetation}}{2 - \text{Dominance Test is } 50\%}$ $\frac{3 - \text{Prevalence Index is } 4.30^{1}$ $\frac{4 - \text{Morphological Adaptations}^{1} (\text{Provide supporting data in Remarks or on a separate sheet})}{2 - \text{Problematic Hydrophytic Vegetation}^{1} (Explain)}$ $\frac{1}{1 - \text{Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.}$
OBL species0 $x 1 =$ 0FACW species0 $x 2 =$ 0FAC species20 $x 3 =$ 60FAC species95 $x 4 =$ 380CUPL species0 $x 5 =$ 0Column Totals:115(A)440(B)Prevalence Index = B/A =3.82Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACW species 0 x 2 = 0 FAC species 20 x 3 = 60 FAC species 95 x 4 = 380 UPL species 0 x 5 = 0 Column Totals: 115 (A) 440 Prevalence Index = B/A = 3.82 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FACW species 20 $x = 60$ FAC species 95 $x = 380$ FACU species 95 $x = 380$ UPL species 0 $x = 0$ Column Totals: 115 (A) 440 (B) Prevalence Index = B/A = 3.82 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is 3.0^1 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) C Problematic Hydrophytic Vegetation ¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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FACU species 95 $x 4 = 380$ UPL species 0 $x 5 = 0$ Column Totals: 115 (A) Prevalence Index = B/A = 3.82 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ************************************
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Column Totals: 115 (A) 440 (B) Prevalence Index = B/A = 3.82 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Column Totals: (A) (B) Prevalence Index = B/A = 3.82 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) C Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Prevalence Index = B/A =
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Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) U ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
be present, unless disturbed or problematic.
Definitions of Ferm Venetation Others
Definitions of Four vegetation Strata:
Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
more in diameter at breast height (DBH) regardless of
height.
Sapling/Shrub – Woody plants, excluding vines, less
than 3 in. DBH and greater than or equal to 3.28 ft (1
m) tall.
Herb – All nerbaceous (non-woody) plants, regardless of size, and woody plants loss than 2.28 ft tall
or size, and woody plants less than 3.26 it tall.
Woody vine – All woody vines greater than 3 28 ft in
height.
-
_
the described in
Hydrophytic Vegetation
Vegetation

Profile Desc	cription: (Describe to	o the depth	needed to docun	nent the i	ndicator	or confirm	n the absence	of indicato	rs.)		
Depth	Matrix		Redo	x Features	6						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-5	10YR 3/3	100					SL				
5-12	10YR 4/4	100					SCL				
							·				—
						. <u> </u>					
	·,					·					
						·	·				—
¹ Type: C=C	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL	=Pore Linir	ng, M=Matrix.		
Hydric Soil	Indicators:						Indica	tors for Pr	oblematic H	ydric Soils ³ :	
Histosol	(A1)		Dark Surface	(S7)			20	cm Muck (A	(10) (MLRA 1	147)	
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148) Co	oast Prairie	Redox (A16))	
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Pi	edmont Flo	odplain Soils	(F19)	
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)	(A)			(MLRA 13)	6, 147) Dark Ora(a)	(7540)	
2 cm Mi	JCK (A10) (LRR N) d Delevy Derk Surface	(11)	Redox Dark 3	Surface (F	6) (FZ)		Other (Explain in Remarks)				
Depiete	u Below Dark Surface	(ATT)	Depleted Dat	K Sunace	(<i>Г1)</i>		0	ner (Explai	n in Remarks	5)	
Sandy M	Aik Sunace (A12) Aucky Mineral (S1) (L1		Redux Deple	ese Masse	2) 29 (F12) (
	A 147, 148)	,	MLRA 13	6)	55 (1 1 <u>2</u>) (1						
Sandy C	Gleved Matrix (S4)		Umbric Surfa	-, ce (F13) (MLRA 13	6, 122)	³ Indi	cators of hy	drophytic ve	detation and	
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	I8) wet	land hydrol	ogy must be	present,	
Stripped	Matrix (S6)		Red Parent M	/laterial (F	21) (MLR	A 127, 147	7) unle	ess disturbe	ed or problem	natic.	
Restrictive	Layer (if observed):										
Туре:											
Depth (in	ches):						Hydric Soil	Present?	Yes	No 🖌	_
Remarks:							L				



Photo 1 Upland data point WUPB009_u facing west



Photo 2 Upland data point WUPB009_u facing east

Project/Site: SERP		City/County: U	pshur	Sampling Date: 6/30/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA010f_W
Investigator(s): GB, TA		Section, Towns	ship, Range: <u>No PLSS in this Ar</u>	rea
Landform (hillslope, terrace, etc.): FL	AT-FLOODPLAIN	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.8868590</u>)1	Long: <u>-80.18934038</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and I	Ernest very stony silt loams, 3	to 15 percent slop	es NWI classi	fication: None
Are climatic / hydrologic conditions or	n the site typical for this time of	f year?Yes 🔽 🗸	No (If no, explain in	Remarks.)
Are Vegetation, Soil,	or Hydrology significar	ntly disturbed?	Are "Normal Circumstances"	" present? Yes 🖌 No
Are Vegetation, Soil,	or Hydrology naturally	problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showi	ng sampling p	point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes No
Remarks:				
Saturated broadleaf deciduous PFO port	ion of a wetlan	d complex located b	elow toe of slope where two st	treams connect

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes <u><</u> No <u>Depth (inches)</u> : <u>16</u>	
Saturation Present? Yes <u><</u> No <u>Depth</u> (inches): <u>13</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	

Sampling Point: WUPA010f_W

	Absoluto	- Dominant Ir	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksneet.
Liriodendron tulipifera	30	Yes	FACU	Number of Dominant Species
	15	Yes	FACU	
		No	EACU	Total Number of Dominant
3. Isuga canadensis	<u>о</u>	INO	FACU	Species Across All Strata: 9 (B)
4				
5				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, of FAC:(A/B)
0				Prevalence Index worksheet:
7				
	50	= Total Cover	r	
50% of total cover: 25	20% of	total cover:	10	OBL species $0 x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15)				FACW species 37 x 2 = 74
A Rhododendron maximum	15	Yes	FAC	FAC species 40 x 3 = 120
	10	Vee	EACW	$EACH spacing = \frac{60}{240}$ x 4 = $\frac{240}{240}$
2. Flaxinus perinsylvanica	10			1×10^{-1}
3. Carpinus caroliniana	10	Yes	FAC	UPL species $x 5 = \frac{127}{424}$
4. Fagus grandifolia	10	Yes	FACU	Column Totals: (A) (B)
o				Prevalence Index = B/A =3.16
6				Hydrophytic Vegetation Indicators:
7				 1 Danid Test for Hydrophytic Vegetation
8.				
<u>.</u>				2 - Dominance Test is >50%
9	45			3 - Prevalence Index is ≤3.0 ¹
	= =	= Total Cover	r	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 22.5	20% of	total cover:	9	dete in Demarke er en e concrete sheet)
Herb Stratum (Plot size: 5)				
Osmundastrum cinnamomeum	15	Yes	FACW	Problematic Hydrophytic Vegetation' (Explain)
• Athyrium angustum	15	Ves	FAC	
2. Autynan angustan		<u> </u>		¹ Indicators of hydric soil and wetland hydrology must
3. Packera aurea	12	Yes	FACW	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata
5				Deminions of Four Vegetation Strata.
<u> </u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
0				more in diameter at breast height (DBH), regardless of
7				height.
8				One line (Oberton) Was developed a surplus line of the
9.				Sapling/Snrub – woody plants, excluding vines, less than 3 in DBH and greater than or equal to 3 28 ft (1
10				m) tall
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	42	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 21	20% of	total cover:	8.4	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
,				
l				
2				
3				
4.				
5				Hydrophytic
J				Present? Yes V
		= Total Cover	r O	
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			·

Profile Desc	cription: (Describe to	o the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence of	f indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR4/2	100					SCL	
6-18	10YR5/2	80	7.5YR4/6	20	С	PL/M	SCL	
							·	
·			,					
·								
¹ Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicato	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2 cm	m Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148) Coa	ast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)) (MLRA 1	47, 148)	1)	MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piec	dmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			1)	MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Ver	y Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	rk Surface	e (F7)		Oth	er (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy N	/lucky Mineral (S1) (Li	RR N,	Iron-Mangan	ese Mass	es (F12) (LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	6, 122)	³ Indica	ators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetla	and hydrology must be present,
Stripped	l Matrix (S6)		Red Parent N	/laterial (F	21) (MLR	A 127, 147	') unles	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NC	DNE							
Depth (in	ches):						Hydric Soil Pi	resent? Yes 🔽 No
Remarks:								



Photo 1 Wetland data point WUPA010f_w facing east



Photo 2 Wetland data point WUPA010f_w facing northwest



Photo 3 Wetland data point WUPA010f_w facing northwest



Photo 4 Wetland data point WUPA010f_w facing east

Project/Site: SERP	City/County: Up:	City/County: Upshur		
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA010e_W	
Investigator(s): GB, TA	Section, Townsh	nip, Range: No PLSS in this Are	ea	
Landform (hillslope, terrace, etc.): FLAT-FLOO	DPLAIN Local relief (concav	e, convex, none): <u>none</u>	Slope (%): <u>3</u>	
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88680162</u>	Long: <u>-80.18928094</u>	Datum: WGS 1984	
Soil Map Unit Name: Buchanan and Ernest ver	ry stony silt loams, 3 to 15 percent slope	s NWI classifi	ication: None	
Are climatic / hydrologic conditions on the site t	sypical for this time of year? Yes	No (If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No	
Are Vegetation, Soil, or Hydrolo	ogy naturally problematic?	(If needed, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach	site man showing sampling n	oint locations transact	s important features etc	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	ン ン ン	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						
Data point for PEM includion within a large	jer PFC) wetlar	nd, receives hydrolog	gy from seep		

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 Root	ts (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 6	
Saturation Present? Yes <u>V</u> No Depth (inches): 0	etland Hydrology Present? Yes 🖌 No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	s), if available:
Remarks:	

Sampling Point: WUPA010e_W

`````	•	Abcoluto	Dominant I	ndicator	Dominanco Tost workshoot:	
Tree Stratum (Plot size:	30 )	% Cover	Species?	Status	Dominance rest worksheet.	
(1 lot 0.20.	/	// 00101	000000	Olalao	Number of Dominant Species	
1			·		That Are OBL, FACW, or FAC: $(A)$	
2					Total Number of Dominant	
3					Species Across All Strate: 4 (B)	
<u>.</u>						
4			· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species	
5					That Are OBL_EACW_or EAC: 100 (A/I	B)
6						_,
0		·	·		Prevalence Index worksheet:	
7					Total % Cover of: Multiply by:	
		0	= Total Cove	r		
	50% of total cover: 0	20% of	f total cover:	0	OBL species $00   x   1 = 00$	
	15 \				EACW species $40$ x 2 = $80$	
Sapling/Shrub Stratum (Plot siz	ze:)					
1		·	<u> </u>		FAC species $x^3 = 0$	
2					FACU species x 4 =	
					UPL species $0 \times 5 = 0$	
3			· · · · · · · · · · · · · · · · · · ·		$100 \times 100 \times 1000 \times 100 \times 100 \times 100 \times 100 \times 100 \times 100 \times 1000 \times 100 \times 100 \times 10$	
4		·	<u> </u>		Column Totals: (A) (B	3)
5						
0			·		Prevalence Index = $B/A = 1.4$	
6					Hydrophytic Vegetation Indicators:	
7						
0					• 1 - Rapid Test for Hydrophytic Vegetation	
0		·			2 - Dominance Test is >50%	
9			. <u> </u>		$\checkmark$ 3 - Prevalence Index is <3 0 ¹	
		0	= Total Cove	r		
	50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations' (Provide supporting	ng
	5	2070 0	10101 00 VOI		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size:	)				Problematic Hydrophytic Vegetation ¹ (Explain)	
1. Carex oligosperma		45	Yes	OBL		
2 Viola cucullata		15	Yes	FACW		
Z. Biloo numilo		15	Vaa	EAC)A/	¹ Indicators of hydric soil and wetland hydrology must	
3. <i>Filea pullila</i>		10	165	FACW	be present, unless disturbed or problematic.	
_{4.} Persicaria sagittata		15	Yes	OBL	Definitions of Four Vagatation Strata	
Б Impatiens capensis		5	No	FACW	Deminions of Four Vegetation Strata.	
Declare curree			Ne		Tree – Woody plants excluding vines 3 in (7.6 cm)	or
6. Packera aurea		5	NO	FACW	more in diameter at breast height (DBH) regardless	of
7.					height.	0.
0		·				
0		·			Sapling/Shrub - Woody plants, excluding vines, less	s
9			. <u> </u>		than 3 in. DBH and greater than or equal to 3.28 ft (1	
10.					m) tall.	
11		·				
· · · · <u>· · · · · · · · · · · · · · · </u>		100			Herb – All herbaceous (non-woody) plants, regardles	SS
		100	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.	
	50% of total cover: 50	20% of	f total cover:	20		
Woody Vine Stratum (Plot size	. 30 )				Woody vine – All woody vines greater than 3.28 ft in	I I
	/				neight.	
1						
2						
3						
<u>.                                    </u>			·			
4			·		Hydrophytic	
5.					Vegetation	
		0	- Total Cove	r	Present? Yes <u>V</u> No	
				0		
	50% of total cover:	20% 0	total cover:			
Remarks: (Include photo numb	ers here or on a separate s	sheet.)				

Denth	Matrix	J life de	Redo:					or indicators.
(inches)	Color (moist)	%	Color (moist)	<u>% 1 catures</u>		Loc ²	Texture	Remarks
0-18	10YR4/1	85	10YR4/6	15	C	PL/M	SCL	
¹ Type: C=C	oncentration, D=Deple	etion, RM	I=Reduced Matrix, MS	S=Masked	I Sand Gra	ains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils ³ :
<u> </u>	l (A1)		Dark Surface	(S7)			2	cm Muck (A10) <b>(MLRA 147)</b>
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) Co	oast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	, F2)		Pi	edmont Floodplain Soils (F19)
Stratifie	d Lavers (A5)		<ul> <li>Depleted Mat</li> </ul>	rix (F3)	,			(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)		Ve	erv Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		O	ther (Explain in Remarks)
Thick D	ark Surface (A12)	()	Redox Depre	ssions (F	() B)			····· (_· + ···· · · · · · · · · · · · · · · ·
Sandy M	Mucky Mineral (S1) (LI	R N	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	RR N		
	Δ 147 148)	,	MIRA 13	6)	00 (i i <b>1</b> 2) <b>(</b> i	,		
Sandy (	Gleved Matrix (S4)		Umbric Surfa	се (F13) <b>(</b>	MI RA 13	6 122)	³ Indi	cators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odolain S	oils (F19)	(MI RΔ 14	8) wet	tland hydrology must be present
Stripper	Matrix (S6)		Red Parent M	latorial (F	21) (MI R	Δ 127 1 <i>4</i> 7	<b>()</b> unl	ess disturbed or problematic
Restrictive	l aver (if observed):					~ 127, 147		
Type:								
Type								
Depth (in	ches):						Hydric Soil	Present? Yes <u>No</u>
Remarks:								


Photo 1 Wetland data point WUPA010e_w facing south



Photo 2 Wetland data point WUPA010e_w facing southeast

Project/Site: SERP		City/County: Ups	hur	_ Sampling Date: 6/30/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA010_U
Investigator(s): GB, TA		Section, Townshi	p, Range: <u>No PLSS in this Ar</u>	ea
Landform (hillslope, terrace, etc.):	STREAM TERRACE	_ Local relief (concave	e, convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88688</u>	093	_ Long: <u>-80.18929192</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan an	d Ernest very stony silt loams,	3 to 15 percent slopes	NWI classif	fication: None
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 signific	antly disturbed?	Are "Normal Circumstances"	' present? Yes 🖌 No
Are Vegetation, Soil	, or Hydrology natural	lly problematic?	(If needed, explain any answ	vers in Remarks.)
	• • • •			• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point for PFO/PEM wetlan	d complex on a f	terrace between two	o streams.		

	Secondary indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <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>
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No <u>'</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:

Sampling Point: WUPA010_U

	Abaaluta	- Dominant Ir	diaatar	Deminence Test werksheet:
Trop Strotum (Plot size: 30)	Absolute	Dominant Ir	Stotuo	Dominance Test worksneet:
Livia dan dram kulinifara	<u>25</u>	<u>Species</u>	FACU	Number of Dominant Species
1. Linodendron tulipitera		Tes	1700	That Are OBL, FACW, or FAC: (A)
_{2.} Tilia americana	15	Yes	FACU	
3 Betula lenta	10	No	FACU	Total Number of Dominant
S	10	No	FACIL	Species Across All Strata: (B)
4. Fagus grandifolia	10		1700	Percent of Dominant Species
5.				That Are OBL EACW/ or EAC $16.66666666666666666666666666666666666$
6				
0				Prevalence Index worksheet:
7		<u> </u>		
	60	= Total Cover		
50% of total cover: 30	20% of	total cover:	12	OBL species 0 x 1 = 0
Conling/Chruh Stratum (Plateiza)		·····		FACW species $10$ x 2 = $20$
Saping/Shiub Stratum (Piot Size)	10	Vee		15 $45$
1. Fagus grandifolia	10	res	FACU	FAC species $x_3 = $
_{2.} Betula lenta	10	Yes	FACU	FACU species $107$ x 4 = $420$
Rhododendron maximum	10	Yes	FAC	UPL species $0 \times 5 = 0$
3			FACU	$\frac{132}{132}$
4. Hamamelis virginiana		INO	FACU	
5.				
6				Prevalence Index = $B/A = \frac{3.73}{1}$
0				Hydrophytic Vegetation Indicators:
7				1 - Panid Test for Hydrophytic Vegetation
8.				
<u> </u>				2 - Dominance Test is >50%
9		·		3 - Prevalence Index is ≤3.0 ¹
	3/	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 18.5	20% of	total cover:	7.4	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
· Dennstaedtia nunctilobula	20	Vee	EACU	Problematic Hydrophytic Vegetation ¹ (Explain)
	20	Tes	FACU	
2. Packera aurea	5	No	FACW	1
3 Athyrium angustum	5	No	FAC	Indicators of hydric soil and wetland hydrology must
Osmundastrum cinnamomeum	5	No	FACW	be present, unless disturbed or problematic.
4. Comunicacium cimienteum			171011	Definitions of Four Vegetation Strata:
5				
6.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
1				neight.
8				Sanling/Shrub Weedy plants excluding vines loss
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10		·		
11				Herb – 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	20% of	total cover:	7	
30				Woody vine – All woody vines greater than 3.28 ft in
woody vine Stratum (Plot size:)				height.
1		. <u></u>		
2.				
3				
- S		·		
4		. <u> </u>		Hydrophytic
5.				Vegetation
	0			Present? Yes No
			0	
	20% 0	total cover:	_	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Jepth	Matrix		Redo	ox Features					
nches)	Color (moist)	%	Color (moist)	<u>%</u> Ty	pe ¹ I		Texture	Remark	(S
0-5	10YR2/1	100					SCL		
5-20	10YR4/3	100					SCL		
		· ·					 		
		·							
Гуре: C=C	concentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked Sar	d Grains	3.	² Location: PL=Poi	e Lining, M=Matr	ix.
<ul> <li>Histoso</li> <li>Histic E</li> <li>Black H</li> <li>Hydroge</li> <li>Stratifie</li> <li>2 cm Me</li> <li>Deplete</li> <li>Thick D</li> <li>Sandy I</li> </ul>	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) <b>(LRR N)</b> id Below Dark Surface ark Surface (A12) Mucky Mineral (S1) <b>(L</b>	e (A11) <b>.RR N,</b>	<ul> <li>Dark Surface</li> <li>Polyvalue Be</li> <li>Thin Dark Se</li> <li>Loamy Gleye</li> <li>Depleted Ma</li> <li>Redox Dark</li> <li>Depleted Da</li> <li>Redox Depresentation</li> <li>Redox Depresentation</li> <li>Iron-Mangar</li> </ul>	e (S7) elow Surface (S urface (S9) <b>(ML</b> ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F7) essions (F8) nese Masses (F	58) (MLF .RA 147 12) (LR	RA 147, ( , 148) R N,	2 cm M 148) Coast f (MLI Piedmo (MLI Very S Other (	luck (A10) <b>(MLR</b> Prairie Redox (A1 <b>RA 147, 148)</b> ont Floodplain So <b>RA 136, 147)</b> hallow Dark Surfa Explain in Remai	<b>4 147)</b> 6) ils (F19) ace (TF12) [;] ks)
MLR Sandy ( Sandy F Stripped	<b>A 147, 148)</b> Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		MLRA 13 Umbric Surfa Piedmont Fl Red Parent	3 <b>6)</b> ace (F13) <b>(MLF</b> oodplain Soils ( Material (F21) <b>(</b>	RA 136, ⁻ F19) (M MLRA 1	122) LRA 148 27, 147	³ Indicator <b>8)</b> wetland ) unless d	s of hydrophytic v hydrology must b isturbed or proble	vegetation and be present, ematic.
estrictive Type: <u>N</u> Depth (in	Layer (if observed): ONE						Hvdric Soil Pres	ent? Yes	No
	/ -						,		



Photo 1 Upland data point WUPA010_u facing northwest



Photo 2 Upland data point WUPA010_u facing southeast

Project/Site: SERP		City/County: U	pshur	Sampling Date: 6/30/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA010f_W
Investigator(s): GB, TA		Section, Towns	ship, Range: <u>No PLSS in this Ar</u>	rea
Landform (hillslope, terrace, etc.): FL	AT-FLOODPLAIN	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.8868590</u>	)1	Long: <u>-80.18934038</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and I	Ernest very stony silt loams, 3	to 15 percent slop	es NWI classi	fication: None
Are climatic / hydrologic conditions or	n the site typical for this time of	f year?Yes 🔽 🗸	No (If no, explain in	Remarks.)
Are Vegetation, Soil,	or Hydrology significar	ntly disturbed?	Are "Normal Circumstances"	" present? Yes 🖌 No
Are Vegetation, Soil,	or Hydrology naturally	problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showi	ng sampling p	point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes No
Remarks:				
Saturated broadleaf deciduous PFO port	ion of a wetlan	d complex located b	elow toe of slope where two st	treams connect

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Presence of Reduced Iron (C4)</li> <li>Sediment Deposits (B2)</li> <li>Recent Iron Reduction in Tilled So</li> <li>Drift Deposits (B3)</li> <li>Thin Muck Surface (C7)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes <u>&lt;</u> No <u>Depth (inches)</u> : <u>16</u>	
Saturation Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): <u>13</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	

Sampling Point: WUPA010f_W

	Absolute	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
Liriodendron tulipifera	30	Yes	FACU	Number of Dominant Species
	15	Yes	FACU	
		No	EACU	Total Number of Dominant
3. Isuga canadensis	5		FACU	Species Across All Strata: 9 (B)
4				
5				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, of FAC:(A/B)
0				Prevalence Index worksheet:
7				
	50	= Total Cover	r	
50% of total cover: 25	20% of	total cover:	10	OBL species $\frac{0}{27}$ x 1 = $\frac{0}{74}$
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $37$ x 2 = $74$
A Rhododendron maximum	15	Yes	FAC	FAC species $40$ x 3 = $120$
	10	Voc	EAC\A/	$EACU species 60 \times 4 - 240$
2. Flaxinus perinsylvanica	10			$1 \times 10^{-1}$
3. Carpinus caroliniana	10	Yes	FAC	UPL species $x 5 = \frac{127}{424}$
4. Fagus grandifolia	10	Yes	FACU	Column Totals: (A) (B)
5				
				Prevalence Index = B/A =3.16
6				Hydrophytic Vegetation Indicators:
7				<ul> <li>1 Papid Test for Hydrophytic Vegetation</li> </ul>
8.				
0				2 - Dominance Test is >50%
9	45			3 - Prevalence Index is ≤3.0 ¹
22	==	= Total Cover	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 22.5	20% of	total cover:	9	data in Romarks or on a sonarate sheet)
Herb Stratum (Plot size: 5 )				
1 Osmundastrum cinnamomeum	15	Yes	FACW	Problematic Hydrophytic Vegetation' (Explain)
• Athyrium angustum	15	Yes	FAC	
2. Marynan angustan	10			¹ Indicators of hydric soil and wetland hydrology must
3. Packera aurea	12	Yes	FACW	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata
5				Deminions of Four Vegetation Strata.
<u> </u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
0				more in diameter at breast height (DBH), regardless of
7				height.
8				One line (Ohmethin ) Was developed a surgle discussion of the
9.				<b>Sapling/Snrub</b> – woody plants, excluding vines, less
10				m) tall
10				
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 21	20% of	total cover:	8.4	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
,				
ı				
2	<u> </u>			
3				
4.				
5				Hydrophytic
J				Present? Yes V No
		= Total Cover	r O	
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe to	o the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix		Redo	x Features	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR4/2	100					SCL	
6-18	10YR5/2	80	7.5YR4/6	20	С	PL/M	SCL	
·			,					
·								
				. <u> </u>				
¹ Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicato	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2 cn	n Muck (A10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) Coa	ast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	) <b>(MLRA 1</b>	47, 148)	(M	MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piec	dmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(M	MLRA 136, 147)
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		Very	y Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	rk Surface	e (F7)		Othe	er (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy N	/lucky Mineral (S1) <b>(Li</b>	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ice (F13) (	(MLRA 13	6, 122)	³ Indica	ators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetla	ind hydrology must be present,
Stripped	l Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	') unles	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NC	DNE							
Depth (in	ches):						Hydric Soil Pr	resent? Yes 🔽 No
Remarks:								



Photo 1 Wetland data point WUPA010f_w facing east



Photo 2 Wetland data point WUPA010f_w facing northwest



Photo 3 Wetland data point WUPA010f_w facing northwest



Photo 4 Wetland data point WUPA010f_w facing east

Project/Site: SERP	City/County: Up:	City/County: Upshur		
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA010e_W	
Investigator(s): GB, TA	Section, Townsh	nip, Range: No PLSS in this Are	ea	
Landform (hillslope, terrace, etc.): FLAT-FLOO	DPLAIN Local relief (concav	e, convex, none): <u>none</u>	Slope (%): <u>3</u>	
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88680162</u>	Long: <u>-80.18928094</u>	Datum: WGS 1984	
Soil Map Unit Name: Buchanan and Ernest ver	ry stony silt loams, 3 to 15 percent slope	s NWI classifi	ication: None	
Are climatic / hydrologic conditions on the site t	sypical for this time of year? Yes	No (If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No	
Are Vegetation, Soil, or Hydrolo	ogy naturally problematic?	(If needed, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach	site man showing sampling n	oint locations transact	s important features etc	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	<i>v</i> <i>v</i> <i>v</i>	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						
Data point for PEM includion within a large	jer PFC	) wetlar	nd, receives hydrolog	gy from seep		

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 Root	ts (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (	C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	<ul> <li>Geomorphic Position (D2)</li> </ul>
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 6	
Saturation Present? Yes <u>V</u> No Depth (inches): 0	etland Hydrology Present? Yes 🖌 No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	s), if available:
Remarks:	

Sampling Point: WUPA010e_W

, , , , , , , , , , , , , , , , , , ,	Abcoluto	- Dominant li	ndicator	Dominanco Tost workshoot:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksneet.
	/0 00101	0000000	Olaluo	Number of Dominant Species
¹		·		That Are OBL, FACW, of FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				()
		·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC:(A/B)
6				
7.				Prevalence Index worksheet:
	0	Total Cava		Total % Cover of: Multiply by:
			r O	OBL species $60 \times 1 = 60$
50% of total cover:	20% 01	total cover:	•	$\frac{40}{40}$
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x 2 = 0$
1.				FAC species $0 x 3 = 0$
2				FACU species $0$ x 4 = $0$
2		·		$1$ IPL species $0$ $x_5 = 0$
3				$100 \times 100 \times 100$
4				Column Totals: (A) (B)
5.				11
°		·		Prevalence Index = $B/A = 1.4$
o				Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
8.				
0		·		2 - Dominance Test is >50%
9	0			$\checkmark$ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cove	r	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	deta in Remarka ar an a concrete sheat)
Herb Stratum (Plot size: 5 )				
1 Carex oligosperma	45	Yes	OBL	Problematic Hydrophytic Vegetation' (Explain)
	15	Vos	EACW	
2. 1018 cucultata		165	TACW	¹ Indicators of hydric soil and wetland hydrology must
3. Pilea pumila	15	Yes	FACW	be present, unless disturbed or problematic.
4. Persicaria sagittata	15	Yes	OBL	Definitions of Four Manatation Official
- Impatiens capensis	5	No	FACW	Definitions of Four Vegetation Strata:
5. <u></u>				<b>Tree</b> – Woody plants, excluding vines, 3 in (7.6 cm) or
6. Packera aurea	5	No	FACW	more in diameter at breast height (DBH) regardless of
7.				height.
°				
	-	·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	100	Tatal Quart		Herb – All herbaceous (non-woody) plants, regardless
50		= I otal Cove	r 20	of size, and woody plants less than 5.26 it tall.
50% of total cover: <u>50</u>	20% of	total cover:	20	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				
		·		
Z		·		
3		. <u> </u>		
4.				
5				Hydrophytic
^{3.}		·		Prosent? Vos V
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
	,			

Denth	Matrix		Pin needed to docum	v Feature				
(inches)	Color (moist)	%	Color (moist)	<u>% 1 caluic</u>	Tvpe ¹	Loc ²	Texture	Remarks
0-18	10YR4/1	85	10YR4/6	15	C	PL/M	SCL	
						<u> </u>		
					. <u> </u>	<u> </u>		
¹ Type: C=C	oncentration, D=Deple	etion, RN	1=Reduced Matrix, MS	S=Masked	I Sand Gra	ains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils ³ :
<u> </u>	l (A1)		Dark Surface	(S7)			2	cm Muck (A10) <b>(MLRA 147)</b>
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) C	coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		Р	iedmont Floodplain Soils (F19)
Stratifie	d Lavers (A5)		<ul> <li>Depleted Mat</li> </ul>	trix (F3)	,			(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F	-6)		V	erv Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		0	other (Explain in Remarks)
Thick D	ark Surface (A12)	()	Redox Depre	ssions (F	8)			
Sandy M	Mucky Mineral (S1) (LI	RR N.	Iron-Mangan	ese Mass	es (F12) <b>(</b>	RR N		
	Δ 147 148)	,	MIRA 13	6)	00 (1 12) (1	,		
Sandy (	Gleved Matrix (S4)		Umbric Surfa	се (F13) <b>(</b>	MI RA 13	6 122)	³ Ind	icators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odolain S	oils (F19)	(MI RΔ 14	.8) we	tland hydrology must be present
Stripper	Matrix (S6)		Red Parent M	Astorial (F	21) (MI R	Δ 127 1 <i>4</i> 7	<b>')</b> unl	less disturbed or problematic
Restrictive	l aver (if observed):			naterial (i		~ 121, 141	<b>)</b>	
Type:								
Type								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								



Photo 1 Wetland data point WUPA010e_w facing south



Photo 2 Wetland data point WUPA010e_w facing southeast

Project/Site: SERP		City/County: Ups	hur	_ Sampling Date: 6/30/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA010_U
Investigator(s): GB, TA		Section, Townshi	p, Range: <u>No PLSS in this Ar</u>	ea
Landform (hillslope, terrace, etc.):	STREAM TERRACE	_ Local relief (concave	e, convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88688</u>	093	_ Long: <u>-80.18929192</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan an	d Ernest very stony silt loams,	3 to 15 percent slopes	NWI classif	fication: None
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 signific	antly disturbed?	Are "Normal Circumstances"	' present? Yes 🖌 No
Are Vegetation, Soil	, or Hydrology natural	lly problematic?	(If needed, explain any answ	vers in Remarks.)
	• • • •			• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point for PFO/PEM wetlan	d complex on a f	terrace between two	o streams.		

	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)         High Water Table (A2)       Hydrogen Sulfide Odor (C1)         Saturation (A3)       Oxidized Rhizospheres on Living         Water Marks (B1)       Presence of Reduced Iron (C4)         Sediment Deposits (B2)       Recent Iron Reduction in Tilled So         Drift Deposits (B3)       Thin Muck Surface (C7)         Algal Mat or Crust (B4)       Other (Explain in Remarks)         Iron Deposits (B5)       Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)       Aquatic Fauna (B13)	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <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>
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No <u>'</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:

Sampling Point: WUPA010_U

	Abaaluta	- Dominant Ir	diaatar	Deminence Test werksheet:
Trop Strotum (Plot size: 30)	Absolute	Dominant Ir	Stotuo	Dominance Test worksneet:
Livia dan dram kulinifara	<u>25</u>	<u>Species</u>	FACU	Number of Dominant Species
1. Linodendron tulipitera		Tes	1700	That Are OBL, FACW, or FAC: (A)
_{2.} Tilia americana	15	Yes	FACU	
3 Betula lenta	10	No	FACU	Total Number of Dominant
S	10	No	FACIL	Species Across All Strata: (B)
4. Fagus grandifolia	10		1700	Percent of Dominant Species
5.				That Are OBL EACW/ or EAC $16.66666666666666666666666666666666666$
6				
0				Prevalence Index worksheet:
7		<u> </u>		
	60	= Total Cover		
50% of total cover: 30	20% of	total cover:	12	OBL species 0 x 1 = 0
Conling/Chruh Stratum (Plateiza)		·····		FACW species $10$ x 2 = $20$
Saping/Shrub Stratum (Piot Size)	10	Vee		15 $45$
1. Fagus grandifolia	10	res	FACU	FAC species $x_3 = \frac{107}{428}$
_{2.} Betula lenta	10	Yes	FACU	FACU species $107$ x 4 = $420$
Rhododendron maximum	10	Yes	FAC	UPL species $0 \times 5 = 0$
3			FACU	$\frac{132}{132}$
4. Hamamelis virginiana		INO	FACU	
5.				
6				Prevalence Index = $B/A = \frac{3.73}{1}$
0				Hydrophytic Vegetation Indicators:
7				1 - Panid Test for Hydrophytic Vegetation
8.				
<u> </u>				2 - Dominance Test is >50%
9		·		3 - Prevalence Index is ≤3.0 ¹
	3/	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 18.5	20% of	total cover:	7.4	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
· Dennstaedtia nunctilobula	20	Vee	EACU	Problematic Hydrophytic Vegetation ¹ (Explain)
	20	Tes	FACU	
2. Packera aurea	5	No	FACW	1
3 Athyrium angustum	5	No	FAC	Indicators of hydric soil and wetland hydrology must
Osmundastrum cinnamomeum	5	No	FACW	be present, unless disturbed or problematic.
4. Comunicacium cimienteum			171011	Definitions of Four Vegetation Strata:
5				
6.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
1				neight.
8				Sanling/Shrub Weedy plants excluding vines loss
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall
10		·		
11				Herb – 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	20% of	total cover:	7	
30				Woody vine – All woody vines greater than 3.28 ft in
woody vine Stratum (Plot size:)				height.
1		<u> </u>		
2.				
3				
- S		·		
4		. <u> </u>		Hydrophytic
5.				Vegetation
	0			Present? Yes No
			0	
	20% 0	total cover:	_	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Jepth	Matrix		Redo	ox Features					
nches)	Color (moist)	%	Color (moist)	<u>%</u> Ty	pe ¹ I		Texture	Remark	(S
0-5	10YR2/1	100					SCL		
5-20	10YR4/3	100					SCL		
		· ·							
		· ·							
Гуре: C=C	concentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked Sar	d Grains	3.	² Location: PL=Poi	e Lining, M=Matr	ix.
<ul> <li>Histoso</li> <li>Histic E</li> <li>Black H</li> <li>Hydroge</li> <li>Stratifie</li> <li>2 cm Me</li> <li>Deplete</li> <li>Thick D</li> <li>Sandy I</li> </ul>	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) <b>(LRR N)</b> id Below Dark Surface ark Surface (A12) Mucky Mineral (S1) <b>(L</b>	e (A11) <b>.RR N,</b>	<ul> <li>Dark Surface</li> <li>Polyvalue Be</li> <li>Thin Dark Se</li> <li>Loamy Gleye</li> <li>Depleted Ma</li> <li>Redox Dark</li> <li>Depleted Da</li> <li>Redox Depresentation</li> <li>Redox Depresentation</li> <li>Iron-Mangar</li> </ul>	e (S7) elow Surface (S urface (S9) <b>(ML</b> ed Matrix (F2) atrix (F3) Surface (F6) ark Surface (F7) essions (F8) nese Masses (F	58) (MLF .RA 147 12) (LR	RA 147, ( , 148) R N,	2 cm M 148) Coast f (MLI Piedmo (MLI Very S Other (	luck (A10) <b>(MLR</b> Prairie Redox (A1 <b>RA 147, 148)</b> ont Floodplain So <b>RA 136, 147)</b> hallow Dark Surfa Explain in Remai	<b>4 147)</b> 6) ils (F19) ace (TF12) [;] ks)
MLR Sandy ( Sandy F Stripped	<b>A 147, 148)</b> Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		MLRA 13 Umbric Surfa Piedmont Fl Red Parent	3 <b>6)</b> ace (F13) <b>(MLF</b> oodplain Soils ( Material (F21) <b>(</b>	RA 136, ⁻ F19) (M MLRA 1	122) LRA 148 27, 147	³ Indicator <b>8)</b> wetland ) unless d	s of hydrophytic v hydrology must b isturbed or proble	vegetation and be present, ematic.
estrictive Type: <u>N</u> Depth (in	Layer (if observed): ONE						Hvdric Soil Pres	ent? Yes	No
	/ -						,		



Photo 1 Upland data point WUPA010_u facing northwest



Photo 2 Upland data point WUPA010_u facing southeast

Project/Site: SERP	City/County: Upshur		Sampling Date: <u>6/30/2014</u>
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB010e_w
Investigator(s): TP	Section, Township, Rang	e: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, conve	x, none): <u>none</u>	Slope (%):2
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	38.88032364 Long:	-80.18418468	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony si	ilt loams, 15 to 25 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed? Are "N	ormal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_ naturally problematic? (If nee	ded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point lo	cations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	ン ン ン	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: wetland located along toe of slope, drain	s into S	UPB01	1			

Wetland Hydrology indicators.	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes Yes No Depth (inches):	
Water Table Present?       Yes _        No Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present?       Yes _        No Depth (inches):         Saturation Present?       Yes _        No Depth (inches):         (includes capillary fringe)       No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: WUPB010e_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Developed Operation
Tsuga canadensis	5	Yes	FACU	Number of Dominant Species
1		·	·	
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
Δ				· · · · · · · · · · · · · · · · · · ·
-		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75 (A/B)
6				
7				Prevalence Index worksheet:
	5	Tatal Cause		Total % Cover of: Multiply by:
25		= I otal Cove	r 1	$\frac{1}{0}$ OBL species $0$ $x_1 = 0$
50% of total cover: 2.5	20% of	total cover:		
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = 10^{-10}$
1 Fraxinus pennsylvanica	5	Yes	FACW	FAC species $0   x 3 = 0$
				EACLI species $5 \times 4 = 20$
2		· . <u></u>	·	
3				UPL species $x_{5} = \frac{1}{100}$
4				Column Totals: (A) (B)
5				Prevalence Index = $B/A = 2.16$
6				Hydrophytic Vegetation Indicators:
7.				Tyurophytic vegetation indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Provolonce Index is <2.0 ¹
	5	- Total Cove	r	
E0% of total action 25	200/ of		່ 1	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover	20% 0	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5_)				Droblemetic Lludrenbutic Vegetation ¹ (Evaluin)
_{1.} Packera aurea	30	Yes	FACW	Problematic Hydrophytic Vegetation (Explain)
Impatiens capensis	20	Yes	FACW	
Z. <u>pasono ouponoio</u>				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4.				Definitions of Four Vegetation Strates
5				Demnitions of Four vegetation Strata:
⁵		· . <u></u>	<u> </u>	<b>Tree</b> – Woody plants, excluding vines 3 in (7.6 cm) or
6				more in diameter at breast height (DBH) regardless of
7.				height.
8				
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				
'''	50	·		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25	20% of	total cover:	10	Meedy vine All woody vince greater than 2.29 ft in
Woody Vine Stratum (Plot size: 30)				boight
^{1.}		·		
2		. <u></u>		
3.				
1				
4		· · · · · · · · · · · · · · · · · · ·		Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes Ves No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redo	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/1	95	10YR 4/6	5	C	PL	SICL	
Type: C=C	Concentration, D=Depl	etion, RM	I=Reduced Matrix, M	S=Masked	d Sand Gra	ains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils ³ :
Histoso	ol (A1)		Dark Surface	e (S7)			2	cm Muck (A10) <b>(MLRA 147)</b>
Histic E	pipedon (A2)		Polyvalue Be	elow Surfa	ice (S8) <b>(N</b>	ILRA 147,	148) Co	oast Prairie Redox (A16)
Black H	listic (A3)		Thin Dark S	urface (S9	) <b>(MLRA 1</b>	47, 148)		(MLRA 147, 148)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Pi	edmont Floodplain Soils (F19)
Stratifie	ed Layers (A5)		Depleted Ma	atrix (F3)				(MLRA 136, 147)
2 cm M	luck (A10) <b>(LRR N)</b>	( )	Redox Dark	Surface (F	-6)		Ve	ery Shallow Dark Surface (TF12)
Deplete	ed Below Dark Surface	(A11)	Depleted Da	rk Surface	e (F7)		Oi	ther (Explain in Remarks)
Thick D	Dark Surface (A12)		Redox Depr	essions (F	8)			
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangar	iese Mass	es (F12) <b>(</b> I	LRR N,		
MLR	A 147, 148)		MLRA 13	<b>(</b> 540)		0 400	31	and an affective should be an an affective second
Sandy	Gleyea Matrix (54)			ace (F13)		0,122) /MIDA 44		cators of hydrophytic vegetation and
Sanuy i	d Matrix (S6)		Fleumonit Fi	Matorial (F	21) (MI P	(IVILKA 14) A 127 1/7	oj wei	ess disturbed or problematic
Outpper	Laver (if observed):			Material (I		~ 121, 141		
Type								
Denth (ir	nches).						Hydric Soil	Present? Ves 🖌 No
							ilyano con	
Remarks:								



Photo 1 Wetland data point WUPB010e_w facing west



Photo 2 Wetland data point WUPB010e_w facing north

Project/Site: SERP	City/Co	ounty: Upshur	Sampling Date: 6/30/2014
Applicant/Owner: Dominion		State: W	V Sampling Point: WUPB010_u
Investigator(s): TP	Sectio	n, Township, Range: <u>No PLSS in t</u> r	nis Area
Landform (hillslope, terrace, etc.): hillsl	ope Local relie	ef (concave, convex, none): <u>none</u>	Slope (%): <u>60</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.88015978</u>	Long: <u>-80.1844246</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Er	nest very stony silt loams, 15 to 25 pe	rcent slopes NWI c	classification: None
Are climatic / hydrologic conditions on the	he site typical for this time of year? Ye	es 🔽 No (If no, expla	ain in Remarks.)
Are Vegetation, Soil, or	Hydrology significantly disturb	bed? Are "Normal Circumsta	nces" present? Yes 🖌 No
Are Vegetation, Soil, or	Hydrology naturally problema	tic? (If needed, explain any	answers in Remarks.)

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required	Surface Soil Cracks (B6)	
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)	
High Water Table (A2)	Drainage Patterns (B10)	
Saturation (A3)	Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled So	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspect	ions), if available:
Remarks:		

Sampling Point: WUPB010_u

	-	Absolute	Dominant li	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30)	% Cover	Species?	Status	Number of Dominant Species
1 Tsuga canadensis	,	80	Yes	FACU	That Are OBL EACW or EAC: $1$ (A)
1. <u> </u>				·	
2				<u> </u>	Total Number of Dominant
3					Species Across All Strata:3 (B)
4.					
				·	Percent of Dominant Species
ə					That Are OBL, FACW, or FAC: (A/B)
6					
7.					Prevalence Index worksheet:
		80	- Total Cove	r	Total % Cover of: Multiply by:
	= 00% of total action $= 40%$	200/ of		16	OBL species $0   x 1 = 0$
t	15	20% 01	total cover:		
Sapling/Shrub Stratum (Plot size	:)				FACW species $x_2 = \frac{15}{15}$
_{1.} Rhododendron maximum		5	Yes	FAC	FAC species $3 \times 3 = 15$
2					FACU species $85$ x 4 = $340$
2				·	$\frac{1}{10} \frac{1}{100} \frac{1}{$
3					$\frac{\text{OFL species}}{90} \times 5 = \underline{355}$
4.					Column Totals: (A) (B)
F					
-				<u> </u>	Prevalence Index = B/A =3.94
6					Hydrophytic Vegetation Indicators
7.					
°					1 - Rapid Test for Hydrophytic Vegetation
8				. <u> </u>	2 - Dominance Test is >50%
9					$3 - \text{Prevalence Index is } \leq 30^{1}$
		5	= Total Cove	r	
1	50% of total cover: 2.5	20% of	total cover:	1	4 - Morphological Adaptations' (Provide supporting
	5	20 /0 01			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	<u> </u>	_			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Polystichum acrostichoides		5	Yes	FACU	
2					
2		-			¹ Indicators of hydric soil and wetland hydrology must
3					be present, unless disturbed or problematic.
4					Definitions of Four Vegetation Strata:
5					Deminions of Four Vegetation of ata.
			·		<b>Tree</b> – Woody plants, excluding vines, 3 in, (7.6 cm) or
6					more in diameter at breast height (DBH), regardless of
7.					height.
8					
8:					Sapling/Shrub – Woody plants, excluding vines, less
9					than 3 in. DBH and greater than or equal to 3.28 ft (1
10.					m) tall.
11					
11		5		·	Herb – All herbaceous (non-woody) plants, regardless
			= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
Ę	50% of total cover: 2.5	20% of	total cover:	1	Mandausing Allowed using a master than 2.00 ft in
Woody Vine Stratum (Plot size:	30 )				woody vine – All woody vines greater than 3.28 ft in
(, (,	,				neight.
1				<u> </u>	
2					
3.					
·	,				
4				<u> </u>	Hydrophytic
5					Vegetation
		0	= Total Cove	r	Present? Yes No V
F	50% of total covor: 0	20% of	total covor:	0	
		20 % 01			
Remarks: (Include photo number	s here or on a separate sl	heet.)			
1					

Profile Des	cription: (Describe t	o the depth	n needed to docum	nent the in	ndicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-12	10YR 4/4	100					SCL				
							·				
				<u> </u>							
							·				
							·				
							·				
							·				
¹ Type: C=C	oncentration. D=Deple	etion. RM=F	Reduced Matrix. MS	S=Masked	Sand Gra	ains.	² Location: Pl	_=Pore Linir	na. M=Matrix		
Hydric Soil	Indicators:						Indica	tors for Pr	oblematic H	ydric Soi	ls ³ :
Histoso	(A1)		Dark Surface	(S7)			2	cm Muck (A	(10) (MLRA ·	147)	
Histic E	pipedon (A2)		Polvvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147.	148) <u> </u>	oast Prairie	Redox (A16)	)	
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47. 148)		(MLRA 14	7. 148)	/	
Hvdroge	en Sulfide (A4)		Loamv Gleve	d Matrix (F	-2)	, -,	Pi	iedmont Flo	odplain Soils	(F19)	
Stratifie	d Lavers (A5)		Depleted Mat	trix (F3)	,			(MLRA 13	6, 147)	( )	
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F6	6)		Very Shallow Dark Surface (TF12)				
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Other (Explain in Remarks)				
Thick D	ark Surface (A12)		Redox Depre	ssions (F8	5)						
Sandy M	/lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	s (F12) <b>(</b>	LRR N,					
MLR	A 147, 148)		MLRA 13	6)							
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	³ Indi	icators of hy	drophytic ve	getation a	and
Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	<b>18)</b> we	tland hydrol	ogy must be	present,	
Stripped	l Matrix (S6)		Red Parent M	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	7) unl	ess disturbe	ed or problem	natic.	
Restrictive	Layer (if observed):										
Туре:											
Depth (in	ches):						Hydric Soil	Present?	Yes	No	~
Remarks							-				
. comanto.											



**Photo 1** Upland data point WUPB010_u facing south



**Photo 2** Upland data point WUPB010_u facing west

Project/Site: Atlantic Coast Pipeline	City/County: Upshi	ır	_ Sampling Date: 5/15/2015
Applicant/Owner: Dominion		State: WV	Sampling Point: wupa050e_w
Investigator(s): GB, SA	Section, Township	Range: No PLSS in this are	ea
Landform (hillslope, terrace, etc.): terrace	Local relief (concave,	convex, none): <u>none</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N	Lat: <u>38.87592215</u>	Long: <u>-80.18255465</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, ston	y, 15 to 35 percent slopes	NWI classif	ication: PUBFh
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes N	lo (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (	If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS Attach at	a man abowing compling noi	t logationa transact	a important factures ato

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes _	V	No		
Remarks:								
Wetland data point for a saturated PEM wetland on a terrace, trampled by livestock; likely an old strip mine terrace that intercepted ground water to create hydrology.								

	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <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>
Field Observations:	
Surface Water Present? Yes No V Depth (inches):	
Water Table Present? Yes No <u>/</u> Depth (inches):	
Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	tions), if available:
Saturation Present?       Yes No Depth (inches): U         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>Yes</u> No tions), if available:
Saturation Present?       Yes No Depth (inches): U         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	Wetland Hydrology Present? Yes <u>Yes</u> No

Sampling Point: wupa050e_w

	Absoluto	- Dominant li	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Demisert Operator
1				That Are OBL EACW or EAC: 2 (A)
_ I				
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				
E				Percent of Dominant Species
	·			That Are OBL, FACW, or FAC: (A/B)
6				Desuglasses in desugentiete este
7				Prevalence index worksneet.
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:	0 20% of	total cover:	0	OBL species $40$ x 1 = $40$
	20 /8 01	total cover.		$FACW$ species $\frac{38}{x^2} = 76$
Sapling/Shrub Stratum (Plot size:	)			10 $30$
1				FAC species $x^3 = 0$
2.				FACU species $x 4 = 24$
2				UPL species $0 \times 5 = 0$
S	·			Column Totale: 94 (A) 170 (B)
4				
5				Prevalence Index - B/A - 1.8
6.				
7				Hydrophytic Vegetation Indicators:
/ ·				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9.				
	0	- Total Cove		Yevalence Index is ≤3.0°
E0% of total action	0 200/ of		0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: _	<u> </u>	total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Droblemetic Hydrophytic Vegetation ¹ (Evaluin)
1. Eleocharis acicularis	40	Yes	OBL	
₂ Packera aurea	30	Yes	FACW	
- Holcus lanatus	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
3. Authorized three entropy				be present, unless disturbed or problematic.
4. Anthoxanthum odoratum	6	No	FACU	Definitions of Four Vegetation Strata:
_{5.} Viola cucullata	4	No	FACW	
e Viola blanda	4	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
0				more in diameter at breast height (DBH), regardless of
7				height.
8				Continue/Chrysh Waashuntanta avaluating vines lass
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	94	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	47 20% of	total cover:	18.8	
Weady Vine Stratum (Plat size: 30 )				Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3.		_	_	
4	· ·			
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes Yes No
50% of total cover:	0 20% of	total cover:	0	
Pomarka: (Includo photo numbero horo er en e erer	rate sheet \	·····		
Remarks. (include photo numbers here of on a separ	ale sneet.)			
1				

Profile Desc	cription: (Describe to	the dep	oth needed to docum	nent the i	indicator of	or confirm	the absence	e of indicators.)		
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 4/2	97	10YR 4/6	3	С	PL/M	SCL			
6-14	10YR 4/1	92	10YR 4/6	8	С	PL/M	SCL	rock at 14"		
						·				
						<u> </u>				
						. <u> </u>				
						. <u> </u>				
						. <u> </u>				
¹ Type: C=C	oncentration, D=Deple	tion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gra	ains.	² Location: I	PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						India	cators for Problematic Hydric Soils ³ :		
Histosol	(A1)		Dark Surface	(S7)			:	2 cm Muck (A10) <b>(MLRA 147)</b>		
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairie Redox (A16)		
Black H	istic (A3)		Thin Dark Su	rface (S9)	) (MLRA 1	47, 148)		(MLRA 147, 148) Diadmant Floodalain Spile (F10)		
Hyuruge Stratifie	d Lavers (A5)		Loanny Gleye ✓ Depleted Mail	trix (F3)	(FZ)					
2 cm Mi	uck (A10) (LRR N)		Redox Dark S	Redox Dark Surface (F6)				Very Shallow Dark Surface (TF12)		
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	e (F7)		Other (Explain in Remarks)			
Thick Da	ark Surface (A12)	. ,	Redox Depre	ssions (F	8)					
Sandy M	Mucky Mineral (S1) (LF	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b> I	LRR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and		
Sandy F	Redox (S5)		Piedmont Flo	odplain S	ioils (F19)	(MLRA 14	• <b>8)</b> w	etland hydrology must be present,		
Stripped	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> u	nless disturbed or problematic.		
Restrictive	Layer (if observed):									
Type: <u>no</u>	one									
Depth (in	ches):						Hydric So	il Present? Yes 🔽 No		
Remarks:										



**Photo 1** Wetland data point wupa050e_w facing east



Photo 2 Wetland data point wupa050e_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Upsh	ur	Sampling Date: 5/15/2015
Applicant/Owner: Dominion		State: WV	Sampling Point: wupa050_u
Investigator(s): GB, SA	Section, Township	o, Range: <u>No PLSS in this area</u>	1
Landform (hillslope, terrace, etc.): slope	Local relief (concave,	convex, none): none	Slope (%): <u>10</u>
Subregion (LRR or MLRA): N Lat: 38	8.8758806	Long: <u>-80.18240614</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stony, 15 to	35 percent slopes	NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical for th	nis time of year? Yes N	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	rs in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	マ マ マ	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							
Upland data point taken above toe of sid	ope for a satura	tea PEI	w wetland on	a terrace.			

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)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Ves No Depth (inches):	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present?       Yes       No         ctions), if available:
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Ves No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)          Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No       Depth (inches):         Saturation Present?       Yes No       Depth (inches):         (includes capillary fringe)        Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective          Remarks:           no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No       Depth (inches):         Saturation Present?       Yes No       Depth (inches):         (includes capillary fringe)        Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:          no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:         no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:         no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:         no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:         no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:         no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       no hydrology indicators present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       no hydrology indicators present	Wetland Hydrology Present? Yes No

Sampling Point: wupa050_u

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>50</u> ) 1 Betula lenta	<u>% Cover</u> 25	Yes	FACU	Number of Dominant Species That Are OBL_EACW or EAC: $0$ (A)
2 Quercus alba	20	Yes	FACU	
3. Acer rubrum	10	No	FAC	Total Number of Dominant Species Across All Strata: 6 (B)
4.				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
6			<u> </u>	Provalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cove	er 11	
50% of total cover:	20% of	total cover:		$\begin{array}{c} \text{OBL species} \\ \hline 13 \\ \hline 26 \\ \hline \end{array}$
Sapling/Shrub Stratum (Plot size:)				FACW species $x^2 = 54$
1. Spiraea japonica	20	Yes	FACU	FAC species $x 3 = {502}$
2. Betula lenta	15	Yes	FACU	FACU species $146$ $x 4 = 592$
3. Carpinus caroliniana	8	No	FAC	UPL species $0 \times 5 = 0$
4. Rosa multiflora	5	No	FACU	Column Totals: (A) (B)
5				Prevalence Index = $B/A = 3.75$
6				Hydrophytic Vegetation Indicators:
7			·	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is < 3.01
	48	= Total Cove	er	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 24	20% of	total cover:	9.6	deta in Romarka ar an a congrate sheet)
Herb Stratum (Plot size: 5)				
1. Anthoxanthum odoratum	20	Yes	FACU	Problematic Hydrophytic Vegetation (Explain)
2. Poa compressa	20	Yes	FACU	1
3. Persicaria pensylvanica	10	No	FACW	Indicators of hydric soil and wetland hydrology must
4. Lolium perenne	8	No	FACU	Definitions of Four Verstation Strates
5. Dennstaedtia punctilobula	7	No	FACU	Demnitions of Four vegetation Strata:
6. Trifolium repens	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7 Viola blanda	3	No	FACW	more in diameter at breast height (DBH), regardless of beight
8 Oxalis corniculata	3	No	FACU	in ign.
0				<b>Sapling/Shrub</b> – Woody plants, excluding vines, less
3 10				m) tall.
10				
11	76	Total Caur		Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 38	20% of	total cover:	15.2	
Woody Vine Stratum (Plot size:)	2070 01			Woody vine – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4.				Hadavala da
5.				Hydropnytic Vegetation
	0	= Total Cove	er	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
	1000.)			

Profile Desc	cription: (Describe to	o the depth	n needed to docun	nent the i	ndicator	or confirm	the absence	e of indicato	rs.)	
Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remarks	
0-7	10YR 3/2	100					SCL			
7-12	10YR 4/3	100					SCL	rock at 12	1	
								·		
				<u> </u>				·		
								·		
·		<u> </u>		······						
¹ Type: C=C	oncentration D=Deple	etion RM=F	Reduced Matrix MS	S=Masked	Sand Gra	ains	² Location: F	PI =Pore Linir	ng M=Matrix	
Hydric Soil	Indicators:	, ion, i un=i					Indic	ators for Pr	oblematic Hydric So	oils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	(10) (MLRA 147)	
Histic E	pipedon (A2)		Polvvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147.	148) (	Coast Prairie	Redox (A16)	
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	-,	(MLRA 14	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (I	, F2)		F	Piedmont Flo	odplain Soils (F19)	
Stratifie	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13	6, 147)	
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)		\	Very Shallow	Dark Surface (TF12)	
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		(	Other (Explai	n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)					
Sandy N	/lucky Mineral (S1) (Ll	RR N,	Iron-Mangane	ese Masse	es (F12) <b>(</b> I	LRR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	³ Inc	dicators of hy	drophytic vegetation	and
Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) w	etland hydrol	ogy must be present,	
Stripped	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(MLR</b>	A 127, 147	' <b>)</b> ur	nless disturbe	ed or problematic.	
Restrictive	Layer (if observed):									
Type: no	one									
Depth (in	ches):						Hydric Soi	I Present?	Yes No	<u> </u>
Remarks:										



**Photo 1** Upland data point wupa050_u facing southeast



# Photo 2 Upland data point wupa050_u facing southwest

Project/Site: Atlantic Coast Pipeline	City/County: Upsl	nur	Sampling Date: 5/18/2015
Applicant/Owner: Dominion		State: WV	_ Sampling Point: wupb050e_w
Investigator(s): TP, SA	Section, Townshi	o, Range: No PLSS in this area	
Landform (hillslope, terrace, etc.): toe of slope	Local relief (concave	, convex, none): <u>concave</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 38	.87162289	Long: <u>-80.17456955</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt	loams, 15 to 25 percent slopes	s NWI classifica	ntion: None
Are climatic / hydrologic conditions on the site typical for th	nis time of year? Yes	No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" pr	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answer	s in Remarks.)
		• • • • • •	• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Seep along toe of slope/roadside drainag	ge swale. Abut	tting SUPB050			

wetiand Hydrology indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Field Observations:	
Surface Water Present? Yes No Depth (inches): 2	
Saturation Present?       Yes       V       Depth (inches):       1         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: wupb050e_w

-	-	Abcoluto	Dominant I	ndicator	Dominanco Tost workshoot:			
Tree Stratum (Plot size:	30 )	% Cover	Species?	Status	Dominance rest worksheet.			
	/	/0 00101	000000.	Olalao	Number of Dominant Species			
1			·		That Are OBL, FACW, or FAC: (A	<b>(</b> )		
2					Total Number of Dominant			
3					Species Across All Strate: 2 /R	2)		
		-	·			"		
4			·		Percent of Dominant Species			
5					That Are OBL_EACW/ or EAC· 100 (A	(R)		
6						(U)		
0			·		Prevalence Index worksheet			
7								
		0	= Total Cove	r	lotal % Cover of: Multiply by:			
	50% of total cover: 0	20% of	total cover	0	OBL species $0   x   1 = 0$			
	15	2070 01			EACW species $35$ x 2 - 70			
Sapling/Shrub Stratum (Plot si	ze:)							
1					FAC species $x_3 = 0$			
2					FACU species $0   x 4 = 0$			
۷			·		$U_{\text{PL exercise}} = 0$ $x = 0$			
3			·		0PL species X 5 =			
4.					Column Totals: (A) (	(B)		
-								
5					Prevalence Index = $B/A = 2$			
6					Hudrophytic Vogstation Indiastan			
7					nyurophytic vegetation indicators:			
/ ·			·		1 - Rapid Test for Hydrophytic Vegetation			
8					✓ 2 - Dominance Test is >50%			
9.								
		0	Tatal Cause		Y 3 - Prevalence Index is ≤3.0°			
	0		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide support	ting		
	50% of total cover: 0	20% of	total cover:	0	dete in Remarka ar an a concrete abact)	0		
Herb Stratum (Plot size:	5)				uala in Remarks of on a separate sheet)			
Eleocharis intermedia	,	20	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
1				54.014				
2. Juncus effusus		15	Yes	FACW				
3					Indicators of hydric soil and wetland hydrology mus	st		
			·		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		
0			·		more in diameter at breast height (DBH), regardless	sof		
7					height.			
8								
<u>.</u>					Sapling/Shrub – Woody plants, excluding vines, les	SS		
9			·		than 3 in. DBH and greater than or equal to 3.28 ft (	(1		
10.					m) tall.			
11								
11			·		Herb – All herbaceous (non-woody) plants, regardle	ess		
		35	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.			
	50% of total cover: 17.5	20% of	total cover:	7				
Woody Vine Stratum (Plot size	. 30 )				Woody vine – All woody vines greater than 3.28 ft in	n		
	)				height.			
1								
2.								
3			·					
4					Live and the			
5					Vogetation			
0			·		Prosent? Vos V No			
		0	= Total Cove	r				
	50% of total cover: 0	20% of	total cover:	0				
Romarka: (Include photo pumk	ore here or on a concrete a	boot)						
Remarks. (include proto numi	bers here of on a separate s	neet.)						
Profile Desc	cription: (Describe t	o the dep	th needed to docur	nent the i	ndicator	or confirm	n the absence	of indicators.)
--------------	--------------------------------------------	------------	--------------------	------------------------	---------------------	------------------	------------------	----------------------------------------
Depth	Matrix		Redo	x Features	s			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	95	10 YR 4/6	5	С	PL	SCL	
							·	
'Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	Location: P	L=Pore Lining, M=Matrix.
Hydric Soli	Indicators:			( <b>-</b> -)			Indica	ators for Problematic Hydric Solis :
Histosol	(A1)		Dark Surface	e (S7)	(0.0) (1)		2	cm Muck (A10) <b>(MLRA 147)</b>
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	ILRA 147,	148) <u> </u>	Coast Prairie Redox (A16)
Black H	ISTIC (A3)			Inace (59)		47, 148)	П	(MLRA 147, 148)
Hyuruge	d Lavers (A5)		Loanly Gleye	triv (E3)	ΓΖ)		F	(MI PA 136 147)
2 cm Mi	u Layers (A3) uck (A10) <b>(I RR N)</b>		Depleted Ma K	unz (13) Surface (F	6)		V	erv Shallow Dark Surface (TE12)
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)			ther (Explain in Remarks)
Thick D	ark Surface (A12)	()	Redox Depre	essions (F	8)			····· (·······························
Sandy N	/ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b> I	LRR N,		
MLR	A 147, 148)		MLRA 13	6)	· / ·			
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ice (F13) (	MLRA 13	6, 122)	³ Ind	icators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>18)</b> we	tland hydrology must be present,
Stripped	l Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	<b>7)</b> un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:							1	



Photo 1 Wetland data point wupb050e_w facing southeast



Photo 2 Wetland data point wupb050e_w facing northwest

Project/Site: Atlantic Coast Pipeline	City/County: Upshur		Sampling Date: 5/18/2015
Applicant/Owner: Dominion		State: WV	Sampling Point: wupb050_u
Investigator(s): TP, SA	Section, Township, Rang	ge: No PLSS in this are	а
Landform (hillslope, terrace, etc.): hill slope	Local relief (concave, conve	x, none): <u>none</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N	_at: <u>38.87167494</u> Long:	-80.17462349	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very sto	ony silt loams, 15 to 25 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "N	ormal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If need	ded, explain any answe	ers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No _	<u> </u>
Remarks:						

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)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _ Depth (inches):	
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):	
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary triang)       Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Surface Water Present?       Yes No _        Depth (inches):         Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Ves No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Ves No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _ Depth (inches):         Water Table Present?       Yes No _ Depth (inches):         Saturation Present?       Yes No _ Depth (inches):         (includes capillary fringe)       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _        Depth (inches):         Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _        Depth (inches):         Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _        Depth (inches):         Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No ✓ tions), if available:
Surface Water Present?       Yes No _        Depth (inches):         Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _       Depth (inches):         Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Depth (inches):          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _       Depth (inches):         Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Depth (inches):          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No tions), if available:
Surface Water Present?       Yes No _       Depth (inches):         Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Depth (inches):          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No tions), if available:

Sampling Point: wupb050_u

		Abaaluta	- Dominant I	ndiaatar	Dominance Test worksheet
Tree Stratum (Plot size:	30	% Cover	Species?	Status	Dominance Test worksheet.
	)	/0 00001	opecies:	Otatus	Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					
					Total Number of Dominant
3			·		Species Across All Strata: (B)
4.					
					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 25 (A/B)
6.					
7					Prevalence Index worksheet:
/			·		Total % Cover of: Multiply by:
		0	= Total Cove	r	
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
	15		·····		$EACW$ species $0$ $x_2 = 0$
Sapling/Shrub Stratum (Plot siz	ze:)				$10 \times 2 = 30$
_{1.} Hamamelis virginiana		10	Yes	FACU	FAC species $x_3 = 000$
<ul> <li>Liriodendron tulipifera</li> </ul>		5	Yes	FACU	FACU species $25$ x 4 = $100$
2. <u></u>				17100	
3.					UPL species $x_5 = 0$
1					Column Totals: $35$ (A) $130$ (B)
4			·		
5					Prevalence Index = P/A = 3.71
6			_	_	
0			·		Hydrophytic Vegetation Indicators:
7					1 Papid Tast for Hydrophytic Vecetation
8					
⁰			·		2 - Dominance Test is >50%
9			. <u> </u>		3 Provalance Index is $< 3.0^{1}$
		15	- Total Cove	r	
	50% of total answer 7.5			3	4 - Morphological Adaptations ¹ (Provide supporting
	50% of total cover:	20% of	total cover:		data in Remarks or on a senarate sheet)
Herb Stratum (Plot size:	5)				
Quercus alba		10	Yes	FACU	Problematic Hydrophytic Vegetation' (Explain)
L <u> </u>					
2. Athyrium asplenioides		10	Yes	FAC	
2					Indicators of hydric soil and wetland hydrology must
J					be present, unless disturbed or problematic.
4			. <u> </u>		Definitions of Four Vegetation Strata
5					Dominiono or i our vogotation otratar
0			· <u> </u>		<b>Tree</b> – Woody plants, excluding vines 3 in (7.6 cm) or
6			. <u> </u>		more in diameter at breast height (DBH) regardless of
7					height
··					noight.
8					Sanling/Shrub - Woody plants, excluding vines, less
9.					than 3 in DBH and greater than or equal to 3.28 ft (1
					m) toll
10			·		III) tall.
11.					Herb All berbasseus (non woody) planta, regardlage
		20	Tatalo		of airo, and woody plants loss than 2.28 ft tall
	10		= Total Cove	er 🖌	of size, and woody plants less than 5.20 it tall.
	50% of total cover: 10	20% of	total cover:	4	
Woody Vine Stratum (Plot size	. 30 )				woody vine – All woody vines greater than 3.28 ft in
	/				neight.
1					
2.					
			· · · · · · · · · · · · · · · · · · ·		
3			. <u> </u>		
4					
			· · · · · · · · · · · · · · · · · · ·		Hydrophytic
Э. <u></u>			·		Vegetation
		0	= Total Cove	r	Present? Yes No V
	50% of total covor: 0	20% of	total covor:	0	
		2078.01			
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	the depth	needed to docum	nent the in	dicator o	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remark	S
0-12	10YR 4/4	100					SCL		
						<u> </u>			
						<u> </u>	<u> </u>		
						·			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Por	re Lining, M=Matri	X. 2
Hydric Soil	Indicators:						Indicators	for Problematic	Hydric Soils':
Histosol	(A1)		Dark Surface	(S7)			2 cm N	luck (A10) <b>(MLRA</b>	. 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(M</b>	LRA 147,	148) Coast I	Prairie Redox (A1	6)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLI	RA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		Piedmo	ont Floodplain Soi	ls (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(MLI	RA 136, 147)	
2 cm Mu	JCk (A10) <b>(LRR N)</b>	(	Redox Dark	Surface (F6	5) (FZ)		Very S	hallow Dark Surfa	ce (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dat	K Surface (	(F7)		Other (	Explain in Remark	(S)
	ark Surface (A12)		Redox Depre	SSIONS (F8)	) - (E40) <b>(</b> 1				
	1ucky Mineral (51) (L	.KK N,		ese masse:	s (F12) <b>(</b> L	_RR N,			
WILKA Sondy (	(64)		WILKA 13	0) 00 (E12) <b>(N</b>		6 122)	³ Indicator	o of hydrophytic y	agatation and
Sandy E	Pedax (S5)		Onblic Sulla	n) (FIS) (N		0, 122) (MI DA 14)	8) wetland	bydrology must be	egetation and
Sandy R	Matrix (S6)		Red Parent M	Aatorial (F2	1) (MI R			listurbed or proble	matic
Restrictive I	aver (if observed):					~ 127, 147			matic.
Tunoi									
Type.	-1								
Depth (ind							Hydric Soil Pres	ent? Yes	NO
Remarks:	unes).								
	cnes).								



**Photo 1** Upland data point wupb050_u facing north



Photo 2 Upland data point wupb050_u facing east northeast

Project/Site: SERP	City/County: L	Jpshur	Sampling Date: 7/14/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB011e_w
Investigator(s): TP	Section, Towr	ship, Range: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): terrace	Local relief (conc	ave, convex, none): <u>concave</u>	Slope (%): <u>0</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	38.86900638	Long: <u>-80.17542151</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stony, 15 to	o 35 percent slopes	NWI classifie	cation: None
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling	point locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	_ No
Remarks: wetland is located in depressional area a	long terrace in	strip mine. does not	appear to be connected to a j	urisdictional fe	ature

Wettand Hydrology Indicators.	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Roots (C3) Moss Trim Lines (B16)</li> </ul>
Water Marks (B1)       Presence of Reduced Iron (C4)         Sediment Deposits (B2)       Recent Iron Reduction in Tilled Sc         Drift Deposits (B3)       Thin Muck Surface (C7)         Algal Mat or Crust (B4)       Other (Explain in Remarks)         Iron Deposits (B5)       Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)       Water-Stained Leaves (B9)	<ul> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>V</u> No Depth (inches): 2	
Water Table Present? Yes <u>V</u> No Depth (inches): U	
Water Table Present?       Yes       V       No       Depth (inches):       0         Saturation Present?       Yes       V       No       Depth (inches):       0         (includes capillary fringe)       No       Depth (inches):       0	Wetland Hydrology Present? Yes <u>V</u> No
Water Table Present?       Yes       V       No       Depth (inches):       0         Saturation Present?       Yes       V       No       Depth (inches):       0         (includes capillary fringe)       Ves       V       No       Depth (inches):       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       No       No       No       No	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: WUPB011e_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: $3$ (A)
2				
2		·		Total Number of Dominant
3		·		Species Across All Strata: (B)
4		·		Percent of Dominant Species
5				That Are OBL FACW or FAC: 100 (A/B)
6				
7		·		Prevalence Index worksheet:
/	0	·		Total % Cover of: Multiply by:
	0	= Total Cove	r	$\frac{1}{10000000000000000000000000000000000$
50% of total cover:0	20% of	total cover:	0	
Sapling/Shrub Stratum (Plot size: 0)				FACW species $x_2 = 0$
1.				FAC species x 3 =
2		·		FACU species $0   x 4 = 0$
Z		·	<u> </u>	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
3		·		$\frac{1}{60}$
4				Column Totals: (A) (B)
5.			-	
6				Prevalence Index = B/A =I
		·		Hydrophytic Vegetation Indicators:
7		·		<ul> <li>1 - Rapid Test for Hydrophytic Vegetation</li> </ul>
8				$\checkmark$ 2 - Dominance Tost is > 50%
9.		_	_	
···	0	Tatal Caus		Yerror 3 - Prevalence Index is ≤3.0'
	000/ -1		0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	20% 01	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Droblemetic Hydrophytic Vegetation ¹ (Evaluin)
1. Persicaria hydropiperoides	20	Yes	OBL	
2 Scirpus atrovirens	15	Yes	OBL	
<ul> <li>Persicaria sagittata</li> </ul>	15	Yes	OBI	¹ Indicators of hydric soil and wetland hydrology must
	10	No		be present, unless disturbed or problematic.
4. Carex iupuinia	10		UBL	Definitions of Four Vegetation Strata:
5				
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7		·		more in diameter at breast height (DBH), regardless of
/		·	<u> </u>	neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	60			Herb – All herbaceous (non-woody) plants, regardless
30		= Total Cove	r 12	or size, and woody plants less than 3.28 it tall.
50% of total cover:	20% 01	total cover:	12	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0)				height.
1				
2				
		·		
J				
4		·		Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes V No
50% of total cover: 0	20% of	total cover:	0	
	2070 0			
Remarks: (Include photo numbers here or on a separate s	ineet.)			

Denth	Matrix	o ine det	Redo	v Footures				or mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u>% 1 eatures</u>		Loc ²	Texture	Remarks
0-12	10YR 4/1	90	10YR 4/6	10	С С	PL	CL	
$\frac{1}{1}$ Type: C=C			=Reduced Matrix MS	S=Masked		ains	² Location: F	PI=Pore Lining M=Matrix
Hydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils ³ :
Hydric Soli Histosol Histic El Black Hi Hydroge Stratifier 2 cm Mu Depleter Thick Da Sandy M MLR/ Sandy C Sandy F Strippec Restrictive Type: Depth (in	(A1) bipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) <b>(LRR N)</b> d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) <b>(LI</b> <b>A 147, 148)</b> Bleyed Matrix (S4) Redox (S5) I Matrix (S6) <b>Layer (if observed):</b>	(A11) RR N,	<ul> <li> Dark Surface</li> <li> Polyvalue Be</li> <li> Thin Dark Su</li> <li> Loamy Gleye</li> <li>✓ Depleted Ma</li> <li> Redox Dark 3</li> <li> Redox Depre</li> <li> Iron-Mangan</li> <li> MLRA 13</li> <li> Umbric Surfa</li> <li> Piedmont Flo</li> <li> Red Parent Maximum</li> </ul>	e (S7) How Surface Inface (S9) ed Matrix (f trix (F3) Surface (F k Surface (F k Surface ese Masse <b>6)</b> Ince (F13) <b>(</b> Dodplain Si Material (F	ce (S8) <b>(M</b> (MLRA 1 F2) (6) (F7) 3) es (F12) <b>(I</b> MLRA 13 oils (F19) 21) <b>(MLR</b>	LRA 147, 47, 148) -RR N, 6, 122) (MLRA 14 A 127, 147	148) 2 148) 0 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	Ators for Problematic Hydric Solis : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) /ery Shallow Dark Surface (TF12) Other (Explain in Remarks) dicators of hydrophytic vegetation and etland hydrology must be present, hless disturbed or problematic.
Remarks:								



Photo 1 Wetland data point WUPBO11e_w facing east



Photo 2 Wetland data point WUPBO11e_w facing west

Project/Site: SERP	City/County: Upsl	hur	Sampling Date: 7/14/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB011_u
Investigator(s): TP	Section, Townshi	p, Range: <u>No</u> PLSS in this Area	a
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave	, convex, none): <u>none</u>	Slope (%): <u>15</u>
Subregion (LRR or MLRA): <u>N</u> La	t: <u>38.86895622</u>	Long: <u>-80.17543623</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stony, 1	5 to 35 percent slopes	NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	rs in Remarks.)

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

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

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living I	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches):	Wetland Hydrology Present? Yes No
(Includes capillary fringe) Describe Recorded Data (stream gauge monitoring well aerial photos, previous inspect	ions) if available:
Remarks:	

Sampling Point: WUPB011_u

	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Dominance rest worksneet.
			Olaldo	Number of Dominant Species
1				That Are OBL, FACW, or FAC: $2$ (A)
2				Total Number of Dominant
3				Species Across All Strate: 4 (B)
		·		
4				Percent of Dominant Species
5	_			That Are OBL_EACW_or EAC [.] 50 (A/B)
6				
0				Prevalence Index worksheet:
7				
	0	= Total Cov	er	<u>I otal % Cover of:</u> Multiply by:
50% of total cover:	) 20% of	f total cover.	0	OBL species x 1 =
	2070 0			$FACW$ species 10 $x_2 = 20$
Sapling/Shrub Stratum (Plot size:)				15 - 45
1. Acer rubrum	15	Yes	FAC	FAC species $x^3 = \frac{10}{100}$
2 Fraxinus pennsylvanica	10	Yes	FACW	FACU species $25$ x 4 = $100$
2				$\frac{1}{100} \frac{1}{100} \frac{1}$
3				$50 \times 5 =$
4.				Column Totals: (A) (B)
5		. <u> </u>		
0		·		Prevalence Index = $B/A = $ 3.3
6				Hydrophytic Vegetation Indicators
7		_	_	nyurophytic vegetation indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	25	- Total Cav	or	3 - Prevalence Index Is ≤3.0
5000 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	5		5	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 12	20% 01	total cover:		data in Remarks or on a senarate sheet)
Herb Stratum (Plot size: 0)				
1 Polystichum acrostichoides	15	Yes	FACU	Problematic Hydrophytic Vegetation' (Explain)
			FACU	
2. Fragaria vesca	10	res	FACU	¹ Indiantary of hydric coll and watland hydrology must
3.				ha propert uplace disturbed or problematio
4	_			be present, unless disturbed of problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
-				more in diameter at breast height (DBH), regardless of
/				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
10				m) tall.
11.				Herb All berbasseus (non woody) planta regardlage
	25	Tatal Cau		of size, and woody plants loss than 2.28 ft tall
12	5		er 5	of size, and woody plants less than 3.26 it tall.
50% of total cover:	<u></u> 20% of	total cover:	5	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0)				beight
1				
2		<u> </u>		
3				
4				Hydrophytic
5				Vegetation
	0	- Total Cav	or	Present? Yes No
			0	
50% of total cover:	20% 0	r total cover:		
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Desc	ription: (Describe to	o the deptl	n needed to docun	nent the in	dicator o	or confirm	the absence of indicat	ors.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/4						SCL	
		·	_					
·		·					·	
							·	
		·						
		·						
<u> </u>								
1				. <del></del> .			2	
Type: C=C	oncentration, D=Deple	etion, RM=I	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	Location: PL=Pore Lin	ing, M=Matrix.
Hydric Soll	Indicators:						Indicators for P	robiematic Hydric Solis :
<u> </u>	(A1)		Dark Surface	(S7)			2 cm Muck	A10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(M</b>	LRA 147,	148) Coast Prairi	e Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLRA 1	47, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (F	-2)		Piedmont F	oodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	trix (F3)			(MLRA 1	36, 147)
2 cm Mu	ıck (A10) <b>(LRR N)</b>		Redox Dark S	Surface (F6	5)		Very Shallo	w Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Other (Expl	ain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	)			
Sandy M	lucky Mineral (S1) <b>(Lf</b>	RR N,	Iron-Mangan	ese Masse	s (F12) <b>(I</b>	_RR N,		
MLRA	A 147, 148)		MLRA 13	6)			2	
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(N</b>	MLRA 13	6, 122)	°Indicators of h	ydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 148	8) wetland hydr	ology must be present,
Stripped	Matrix (S6)		Red Parent N	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	) unless distur	bed or problematic.
Restrictive I	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil Present?	Yes No 🖌
Remarks:							•	



**Photo 1** Upland data point WUPB011_u facing east



Photo 2 Upland data point WUPB011_u facing west

Project/Site: SERP	City/County: Ups	hur	_ Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA012e_W
Investigator(s): GB, SK	Section, Townshi	p, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): SWALE	Local relief (concave	e, convex, none): <u>concave</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): N	Lat: <u>38.85432467</u>	_ Long: <u>-80.16267332</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stor	y, 15 to 35 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling po	int locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	_ No			
Remarks: Saturated PEM wetland in a wet swale o	Wetland Hydrology Present?       Yes       Ves       No         Remarks:       Saturated PEM wetland in a wet swale on a strip mine terrace, SUPA018 flows out of feature, two track road passes through feature.							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	
Field Observations:	
Surface Water Present?       Yes       No       ✓       Depth (inches):         Water Table Present?       Yes       ✓       No       Depth (inches):       3         Saturation Present?       Yes       ✓       No       Depth (inches):       0         (includes capillary fringe)       Ves       ✓       No       Depth (inches):       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       No       No       No       No	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Remarks: standing water is present in some areas of feature	

Sampling Point: WUPA012e_W

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0 )	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 4 (A)
2				
2		·		Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5		. <u> </u>		That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7				Prevalence Index worksheet:
	0			Total % Cover of: Multiply by:
50% of total aguary			0	OBL species $62 \times 1 = 62$
	20% 01	total cover:		10 x 2 $-$ 20
Sapling/Shrub Stratum (Plot size:)				18 $54$
1		. <u> </u>		FAC species $x_3 = 20$
2				FACU species $3 \times 4 = 20$
3.				UPL species x 5 =
4				Column Totals: $95$ (A) $156$ (B)
-		·		
5		·	<u> </u>	Prevalence Index = $B/A = 1.64$
6				Hydrophytic Vegetation Indicators:
7				1 Danid Test for Hydrophytic Vegetation
8.				
0				2 - Dominance Test is >50%
9	0			$\checkmark$ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cove	r O	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 0)				Droblematic Undrophytic Vegetation ¹ (Evaluin)
1. Scirpus atrovirens	45	Yes	OBL	
2. Juncus effusus	10	Yes	FACW	
2 Carex vulpinoidea	10	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must
Dichanthelium clandestinum	10	Ves	FAC	be present, unless disturbed or problematic.
4. Delidana rugana	0		- 170	Definitions of Four Vegetation Strata:
5. <u></u> 5	0	NO	FAC	Tree Meadu plante queludine viene 2 in (7.0 cm) en
6. Carex lupulina	7	No	OBL	more in diameter at breast height (DBH) regardless of
_{7.} Fragaria vesca	5	No	FACU	height.
8				
0		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·	·	than 3 in. DBH and greater than or equal to 3.28 ft (1
10		·		m) tail.
11		·		Herb – All herbaceous (non-woody) plants, regardless
	95	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:	19	
Woody Vine Stratum (Plot size: 0)				Woody vine – All woody vines greater than 3.28 ft in
,				
		·		
2		·		
3		. <u> </u>		
4				Hydrophytic
5.				Vegetation
	0	- Total Covo		Present? Yes <b>V</b> No
50% of total cover: 0	20% of		0	
	20 % 01	total cover.		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe to	o the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence	e of indicato	rs.)	
Depth	Matrix		Redox	Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	·	Remarks	
0-10	10YR 5/1	50					SIC			
	10YR 5/2	45	10YR 4/6	5	С	PL	SIC	ROCK AT	10"	
	·							·		
							2			
'Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains.	² Location: F	PL=Pore Linir	ng, M=Matrix.	
Hydric Soil	Indicators:						Indic	ators for Pro	oblematic Hy	dric Soils":
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A	(10) <b>(MLRA 1</b> 4	47)
Histic Ep	pipedon (A2)		Polyvalue Be	ow Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie	Redox (A16)	
Black Hi	istic (A3)		Thin Dark Su	rface (S9)	) (MLRA 1	47, 148)	_	(MLRA 147	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		I	Piedmont Flo	odplain Soils (	F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136	6, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark S	Surface (F	-6)		`	Very Shallow	Dark Surface	(TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		(	Other (Explai	n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)					
Sandy N	/lucky Mineral (S1) <b>(Ll</b>	RR N,	Iron-Mangane	ese Mass	es (F12) <b>(</b> I	LRR N,				
MLR	A 147, 148)		MLRA 136	5)			0			
Sandy G	Eleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	³ Inc	dicators of hy	drophytic vege	etation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	•8) w	etland hydrol	ogy must be p	resent,
Stripped	Matrix (S6)		Red Parent N	laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> ur	nless disturbe	ed or problema	atic.
Restrictive	Layer (if observed):									
Type:	ty clay									
Depth (in	ches):						Hydric Soi	I Present?	Yes 🔽	No
Remarks:							•			



Photo 1 Wetland data point WUPA012e_w facing north



Photo 2 Wetland data point WUPA012e_w facing west

Project/Site: SERP	City/County: Upsh	ur	Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA012_U
Investigator(s): GB, SK	Section, Township	, Range: No PLSS in this Area	3
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (concave,	convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): N Lat: 38.854	25588	Long: -80.16280344	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stony, 15 to 35 pe	ercent slopes	NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes 🔽 M	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrologysign	ificantly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map she	owing sampling poi	nt locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ン ン ン	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point taken on the toe of sk	ope for a PEM v	vetland				

Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; check	all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marka (B1)		True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Roots (C3) Moss Trim Lines (B16)</li> <li>Dra Sasasa Water Table (C2)</li> </ul>
<ul> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Ae</li> <li>Water-Stained Leaves (I</li> <li>Aquatic Fauna (B13)</li> </ul>		Recent Iron Reduced from (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Other (Explain in Remarks)	<ul> <li>Diy-Season Water Fable (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <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>
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes       No       ✓         Yes       No       ✓         Yes       No       ✓         Yes       No       ✓         eam gauge, monitoring w	Depth (inches): Depth (inches): Depth (inches): rell, aerial photos, previous inspec	Wetland Hydrology Present? Yes No
Remarks: no hydrology indicators			

Sampling Point: WUPA012_U

	Abaaluta	- Dominant Ir	diaatar	Deminence Test werkehest:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Dominance Test worksneet:
	/0 00101		Olalas	Number of Dominant Species
1		- <u> </u>		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4		·		
4		- <u> </u>		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				
7				Prevalence Index worksheet:
1		·		Total % Cover of: Multiply by:
	0	= Total Cover	r _	
50% of total cover: 0	20% of	f total cover:	0	OBL species $0 x 1 = 0$
Sanling/Shrub Stratum (Plot size: 0)				FACW species $\begin{array}{c} 0 \\ x 2 = \end{array}$
				EAC species 60 y 3 - 180
1		<u></u>		$\frac{45}{180}$
2				FACU species $x 4 = 0$
3				UPL species x 5 =
·				Column Totals: 105 (A) 360 (B)
4		. <u> </u>		
5		<u> </u>		Provalance Index - P/A - 3.42
6.				
7				Hydrophytic Vegetation Indicators:
[ <i>t</i>				1 - Rapid Test for Hydrophytic Vegetation
8		<u> </u>		2 Dominance Test is $>50%$
9				
•	0	Tatal Cause		3 - Prevalence Index is ≤3.0'
		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	20% of	total cover:		data in Remarks or on a senarate sheet)
Herb Stratum (Plot size: 0)				
1 Solidago rugosa	40	Yes	FAC	Problematic Hydrophytic Vegetation' (Explain)
- Solidago canadensis	25	Ves	FACU	
	2.5	103	1,400	¹ Indicators of hydric soil and wetland hydrology must
3. Anthoxanthum odoratum	10	No	FACU	be present unless disturbed or problematic
⊿ Juncus tenuis	10	No	FAC	
- Dichanthelium clandestinum	10	No	EAC	Definitions of Four Vegetation Strata:
5. <u>Biointainain diana dolana m</u>				<b>Trap</b> Woody plants excluding vince 2 in (7.6 cm) or
6. Dactylis glomerata	10	No	FACU	more in diameter at breast height (DBH) regardless of
7.				height
		·		
8		- <u></u>		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				
11	105	<u> </u>		Herb – All herbaceous (non-woody) plants, regardless
	105	= Total Cover	r 	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5	20% of	f total cover:	21	We advantage Allowed to the second statistics of 0.00 (the
Woody Vine Stratum (Plot size: 0)				woody vine – All woody vines greater than 3.28 ft in
				neight.
1		·		
2		. <u> </u>		
3.				
1				
4		<u></u>		Hydrophytic
5		. <u> </u>		Vegetation
	0	= Total Cover	r	Present? Yes No
50% of total cover: 0	20% of	f total cover:	0	
Devente (lastede electronichers have been en				
Remarks: (Include photo numbers here or on a separate si	neet.)			

Profile Desc	cription: (Describe t	o the dept	n needed to docur	nent the in	dicator o	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 4/3	100					SCL			
8-14	10YR 4/4	100					SCL	ROCK AT	14"	
		·		·						
		·		·						
		otion DM-	Poducod Matrix M	-Maakad 9	Sond Cro		² Location: D		a M-Motrix	
Hvdric Soil	Indicators:	elion, Rivi=r	Reduced Matrix, Mi	S=IVIASKEU C	Sanu Gra			ators for Pr	oblematic H	vdric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2	cm Muck (A	(10) <b>(MLRA</b>	147)
Histic E	pipedon (A2)		Polyvalue Be	elow Surface	e (S8) <b>(M</b>	LRA 147, ⁻	148) <u> </u>	Coast Prairie	Redox (A16	)
Black H	istic (A3)		Thin Dark Sι	urface (S9) <b>(</b>	(MLRA 1	47, 148)		(MLRA 14	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2	2)		P	iedmont Flo	odplain Soils	s (F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F6	i)		V	ery Shallow	Dark Surfac	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surface (	F7)		C	Other (Explai	n in Remark	s)
Thick D	ark Surface (A12)		Redox Depre	essions (F8)	)					
Sandy M	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) <b>(l</b>	.RR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(M</b>	ILRA 13	6, 122)	³ Ind	licators of hy	drophytic ve	getation and
Sandy F	Redox (S5)		Piedmont Flo	odplain Soi	ils (F19)	(MLRA 148	<b>3)</b> we	etland hydrol	ogy must be	present,
Stripped	Matrix (S6)		Red Parent N	Material (F2 ⁻	1) (MLR	A 127, 147)	) un	less disturbe	ed or problem	natic.
Restrictive	Layer (if observed):				, ,					
Type: N	ONE									
Depth (in	ches):						Hydric Soil	Present?	Yes	No
Remarks:										



Photo 1 Upland data point WUPA012_u facing south



Photo 2 Upland data point WUPA012_u facing west

Project/Site: SERP	City/County: Upsh	ur	_ Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA013e_W
Investigator(s): GB, SK	Section, Township	, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): DEPRESSION	Local relief (concave,	convex, none): <u>concave</u>	Slope (%): <u>1</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.8533886</u>	Long: <u>-80.1617165</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stor	ny, 15 to 35 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes N	lo (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	/ significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	/ naturally problematic? (	If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sampling poi	nt locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	<i>v</i> <i>v</i> <i>v</i>	No No No	Is the Sampled Area within a Wetland?	Yes _	~	No
Remarks: Semi-permanently flooded to saturated F	'EM we	tland or	n a strip mine terrace	e; old settling pond that is now	fully veç	getated.	

Wetland Hydrology Indicators	:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of	one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	<ul> <li> True Aquatic Plants (B14)</li> <li>✓ Hydrogen Sulfide Odor (C1)</li> <li>✓ Oxidized Rhizospheres on Living Roc</li> <li> Presence of Reduced Iron (C4)</li> <li> Recent Iron Reduction in Tilled Soils</li> <li> Thin Muck Surface (C7)</li> <li> Other (Explain in Remarks)</li> </ul>	
Field Observations:         Surface Water Present?         Water Table Present?         Saturation Present?         (includes capillary fringe)         Describe Recorded Data (stream	Yes         ✓         No         Depth (inches):         1           Yes         ✓         No         Depth (inches):         0           Yes         ✓         No         Depth (inches):         0         W           m gauge, monitoring well, aerial photos, previous inspection	Vetland Hydrology Present? Yes <u>V</u> No ns), if available:
Remarks: old settling pond		

Sampling Point: WUPA013e_W

Tree Stratum (Plot size:       0       )       Absolute       Dominant indicator       Dominante rest worksheet:         1	A) B) A/B)
1	A) B) 4/B)
1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1.       1. <t< td=""><td>A) B) A/B)</td></t<>	A) B) A/B)
2.       Total Number of Dominant         3.       Total Number of Dominant         4.       Species Across All Strata:         5.       Percent of Dominant Species         6.       That Are OBL, FACW, or FAC:         7.       0         50% of total cover:       0         20% of total cover:       0	B) A/B)
3	B) A/B)
4.       Percent of Dominant Species         5.       That Are OBL, FACW, or FAC:       100         6.       Prevalence Index worksheet:         7. $0$ = Total Cover         50% of total cover: $0$ 20% of total cover: $0$	A/B)
5.       Percent of Dominant Species         6.       That Are OBL, FACW, or FAC:       100         7.       0       = Total Cover         50% of total cover:       0       20% of total cover:       0	A/B)
5.       That Are OBL, FACW, or FAC:       100         6. $\overline{}$ Prevalence Index worksheet:         7. $\overline{}$ = Total Cover         50% of total cover: $\overline{}$ $\overline{}$ 50% of total cover: $\overline{}$ $\overline{}$	A/B)
$\begin{array}{c c} 6. \\ 7. \\ 7. \\ 50\% \text{ of total cover:} \\ \hline 0 \\ 20\% \text{ of total cover:} \\ \hline 0 \\ 20\% \text{ of total cover:} \\ \hline 0 \\ 20\% \text{ of total cover:} \\ \hline 0 \\ BL species \\ \hline 35 \\ \hline 0 \\ x 1 = \\ \hline 35 \\ \hline 100 \end{array}$	
7.       0       = Total Cover       Total % Cover of:       Multiply by:         50% of total cover:       0       20% of total cover:       0       0       0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
50% of total cover: 0 OBL species $35$ x 1 = $35$	
$0$ $EACW$ appearing $00$ $x_2 = 120$	
Sapling/Shrub Stratum (Plot size:)	
1 FAC species x 3 =	
FACU species x 4 =	
3 OF LEGATION 105 105 185	(=)
4 Column Totals: (A)	(B)
5	
Prevalence Index = B/A =1.76	
^{0.} Hydrophytic Vegetation Indicators:	
7 V 1 - Rapid Test for Hydrophytic Vegetation	
2 - Dominance Test is >50%	
$\sim$ = Total Cover $\sim$ 4 - Morphological Adaptations ¹ (Provide support	ortina
50% of total cover: <u> </u>	5
Herb Stratum (Plot size:0)	
Juncus effusus 40 Yes FACW — Problematic Hydrophytic Vegetation' (Explain)	
- Eleocharis intermedia	
2. Electrication intermedia 20 Tes 1 ACV	st
3. Scirpus atrovirens 20 Yes OBL be present, unless disturbed or problematic.	01
4. Carex lupulina 15 No OBL Definition of Four Versetation Strates	
- Dichanthelium clandestinum 10 No FAC	
5 Tree – Woody plants, excluding vines, 3 in (7.6 cr	a) or
6 more in diameter at breast height (DBH), regardless	sof
7 height.	
8	
Sapling/Shrub – Woody plants, excluding vines, l	ess
9 than 3 in. DBH and greater than or equal to 3.28 ft	(1
9         than 3 in. DBH and greater than or equal to 3.28 ft           10         m) tall.	(1
9       than 3 in. DBH and greater than or equal to 3.28 ft         10          11          Herb = All berbaceous (non-woody) plants, regard	(1
9.	(1 ess
9.	(1 ess
9.	(1 ess in
9	(1 ess in
9.	(1 ess in
9.	in
9.	(1 less in
9	(1 less in
9.	(1 less in
9	(1 less in
9.	(1 less in

Profile Desc	cription: (Describe to	o the dep	oth needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)			
Depth	Matrix		Redox	K Features	5						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-10	10YR 5/2	25					SIC				
	10YR 5/1	65	10YR 4/6	10	С	PL/M	SIC	ROCK AT 10"			
						·					
								· . <del></del>			
						·					
			·					· .			
¹ Type: C=C	oncentration D=Deple	etion RM	=Reduced Matrix MS	-Masked	Sand Gr	ains	² Location: F	Pl=Pore Lining M=Matrix			
Hydric Soil	Indicators:			maentea			Indic	ators for Problematic Hydric Soils ³ :			
Histosol	(A1)		Dark Surface	(\$7)				2 cm Muck (A10) <b>(MI RA 147)</b>			
Histic Fi	ninedon (A2)		Polyvalue Bel	(07) low Surfa	ce (S8) <b>(N</b>	II RA 147	148) (	Coast Prairie Redox (A16)			
Black Hi	istic (A3)		Thin Dark Su	rface (S9)	(MI RA 1	47 148)	·····	(MI RA 147 148)			
	en Sulfide (A4)		Loamy Gleve	d Matrix (	F2)	47, 1 <b>40</b> )		Piedmont Floodplain Soils (F19)			
<u> </u>			Depleted Mat	riv (F3)	)		·	(MI RA 136 147)			
Otratilie	uck (A10) (I PP N)		Peday Dark 9	Nr (10) Surface (E	6)		,	Very Shallow Dark Surface (TE12)			
2 cm Mit	d Below Dark Surface	(Δ11)	Depleted Dark	k Surface	(F7)		Other (Explain in Remarks)				
Depictor	ark Surface (A12)	(711)	Depicted Dai	ssions (F	(17) R)		`				
Sandy M	Aucky Mineral (S1) (L		Iron-Mangane	se Masse							
	147, 148)	, in it,	MIRA 136	3)	55 (1 1 <u>2</u> ) (	,					
Sandy (	Heved Matrix (S4)		Umbric Surfa	-, ce (F13) (	MI RA 13	6, 122)	³ In	dicators of hydrophytic vegetation and			
Sandy F	Redox (S5)		Piedmont Flo	odolain S	oils (F19)	(MIRA 14)	8) w	etland hydrology must be present			
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) (MI R	Δ 127 147	<b>)</b> (1)	aless disturbed or problematic			
<u>Restrictive</u>	aver (if observed):					A 121, 141	/ ui				
Turnal SI	LTY CLAY										
Type:											
Depth (in	ches):						Hydric Sol	I Present? Yes No			
Remarks:											



Photo 1 Wetland data point WUPA013e_w facing east



Photo 2 Wetland data point WUPA013e_w facing west

Project/Site: SERP	City/County: Ups	hur	_ Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA013_U
Investigator(s): GB, SK	Section, Townsh	ip, Range: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (concave	e, convex, none): <u>none</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 38.853	341371	_ Long: <u>-80.16166972</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Dekalb complex, stony, 15 to 35 p	ercent slopes	NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology sigr	ificantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nate	urally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling po	oint locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No				
Remarks:			·						
Upland data point taken on the toe of slope for a PEM wetland									

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)         High Water Table (A2)       Hydrogen Sulfide Odor (C1)         Saturation (A3)       Oxidized Rhizospheres on Living         Water Marks (B1)       Presence of Reduced Iron (C4)	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> </ul>
<ul> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	bils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water Present?       Yes No _       Depth (inches):         Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes No
Remarks: no hydrology indicators	

Sampling Point: <u>WUPA013_U</u>

,				1 0
	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Iree Stratum</u> (Plot size: 0)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2.				
2				Total Number of Dominant
		·		Species Across All Strata. (B)
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7		- <u></u>		Prevalence Index worksheet:
1	0	·		Total % Cover of: Multiply by:
		= Total Cove	r	$\frac{1}{1} \frac{1}{1} \frac{1}$
50% of total cover: 0	20% of	f total cover:	0	OBL species $x_1 = 0$
Sapling/Shrub Stratum (Plot size:0)				FACW species $x_2 = 0$
1				FAC species $\frac{80}{x 3} = \frac{240}{x 3}$
··		·		FACU species $35 \times 4 = 140$
2				
3				$\begin{array}{c} \text{OPL species} \\ 115 \\ 115 \\ 380 \\ \end{array}$
4.				Column Totals: (A) (B)
5		. <u> </u>		
		·		Prevalence Index = B/A = 3.3
6		·		Hydrophytic Vegetation Indicators:
7		. <u></u>		1 Popid Test for Hydrophytic Vegetation
8				
		- <u></u>		2 - Dominance Test is >50%
9				3 - Prevalence Index is $≤3.0^1$
	0	= Total Cove	r	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	f total cover:	0	
Herb Stratum (Plot size: 0)				data in Remarks of on a separate sneet)
1 Solidago rugosa	40	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
- Dichanthelium clandestinum	30	Vos	EAC	
		163		¹ Indicators of hydric soil and wetland hydrology must
3. Phleum pratense	10	No	FACU	be present, unless disturbed or problematic.
_{4.} Dactylis glomerata	10	No	FACU	Definitions of Four Verstation Strate:
5 Juncus tenuis	10	No	FAC	Demnitions of Four vegetation Strata:
J	10			<b>Tree</b> – Woody plants, excluding vines 3 in (7.6 cm) or
6. Antnoxantnum odoratum	10	INO	FACU	more in diameter at breast height (DBH), regardless of
7. Achillea millefolium	5	No	FACU	height.
8.				
		- <u> </u>		Sapling/Shrub – Woody plants, excluding vines, less
9		- <u></u>		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		·		m) tall.
11				Herb – All berbaceous (non-woody) plants, regardless
	115	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 57.5	20% 0	f total cover:	23	
				Woody vine – All woody vines greater than 3.28 ft in
				height.
1		·		
2				
3				
4		·		Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes <u>Ves</u> No
50% of total cover: 0	20% of	f total cover:	0	
Remarks: (Include photo numbers here or on a separate s	hoot)			
Remarks. (include photo numbers here of on a separate s	neet.)			

Profile Desc	cription: (Describe t	o the dept	n needed to docur	nent the indi	cator o	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u> T	ype ¹	Loc ²	Texture		Remarks	;
0-8	10YR 4/3	100					SCL			
8-12	10YR 4/4	100					SCL	ROCK AT	12"	
		·								
		·								
		·								
		·		<u> </u>			<u> </u>			
		·								
¹ Type: C=C	oncentration, D=Deple	etion, RM=I	Reduced Matrix, M	S=Masked Sa	and Gra	ins.	² Location: P	L=Pore Linii	ng, M=Matrix	κ.
Hydric Soil	Indicators:						Indica	ators for Pr	oblematic H	lydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)			2	cm Muck (A	( <b>MLRA</b>	147)
Histic Er	pipedon (A2)		Polyvalue Be	elow Surface (	(S8) <b>(M</b>	LRA 147, [•]	148) C	oast Prairie	Redox (A16	5)
Black Hi	istic (A3)		Thin Dark Su	urface (S9) <b>(M</b>		47. 148)	,	(MLRA 14	7. 148)	,
Hydroge	en Sulfide (A4)		Loamy Gleve	ed Matrix (F2)		, - <b>,</b>	Р	iedmont Flo	odplain Soil	s (F19)
Stratified	d Lavers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	- ( - )
2 cm Mi	uck (A10) (LRR N)		Redox Dark	Surface (F6)			V	erv Shallow	Dark Surfac	ce (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface (F7	7)			ther (Explai	n in Remark	s)
Thick D	ark Surface (A12)	(,)	Redox Depre	essions (F8)	,					)
Sandy M	/ucky Mineral (S1) (L		Iron-Mangan	ese Masses (	F12) (I	RRN				
	1/17 1/8)	, in the second s	MI PA 13	6)	, , , , , <b>, , </b>					
Sandy C	(94)			0) 000 (E13) (ML	DA 126	: 122)	³ Ind	icators of h	drophytic va	actation and
Sandy E	Podox (S5)		Dinblic Sulla		(E10) (	MIDA 149	<b>2)</b> wo	tland bydrol	ogy must be	
Strippod	Motrix (S6)		Pod Parant M	Actorial (E21)		101 LINA 140	b) we	loce dicturb	ogy must be	motio
Suipped						<b>X 127, 147</b>	<b>)</b> un			nauc.
Type: NC	DNE									
Depth (in	ches):						Hydric Soil	Present?	Yes	No
Remarks:										



**Photo 1** Upland data point WUPA013_u facing east



Photo 2 Upland data point WUPA013_u facing west

Project/Site: SERP	City/County: Upshur		Sampling Date: 7/15/2014	
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA014e_W	
Investigator(s): GB, SK	Section, Township, Ran	ge: No PLSS in this Are	Area	
Landform (hillslope, terrace, etc.): DEPRESSI	ON Local relief (concave, conve	ex, none): <u>concave</u>	Slope (%): <u>1</u>	
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.85368414</u> Long	: -80.16037366	Datum: WGS 1984	
Soil Map Unit Name: Buchanan and Ernest ve	ery stony silt loams, 15 to 25 percent slopes	NWI classifi	cation: None	
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "N	Iormal Circumstances"	present? Yes 🖌 No	
Are Vegetation, Soil, or Hydrold	ogy naturally problematic? (If nee	eded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sampling point lo	cations, transects	s, important features, etc.	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	マ マ マ	No No No	Is the Sampled Area within a Wetland?	Yes _	~	No
Remarks:							
Semi-permanently flooded PEM wetland on a strip mine terrace; old settling pond that is now fully vegetated.							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Oxidized Rhizospher</li> <li>Water Marks (B1)</li> <li>Presence of Reduce</li> <li>Sediment Deposits (B2)</li> <li>Recent Iron Reduction</li> <li>Drift Deposits (B3)</li> <li>Thin Muck Surface (C</li> <li>Algal Mat or Crust (B4)</li> <li>Other (Explain in Reduction</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	B14)        Sparsely Vegetated Concave Surface (B8)         or (C1)       ✓       Drainage Patterns (B10)         es on Living Roots (C3)        Moss Trim Lines (B16)         H Iron (C4)        Dry-Season Water Table (C2)         n in Tilled Soils (C6)        Crayfish Burrows (C8)         27)       ✓       Saturation Visible on Aerial Imagery (C9)         narks)        Stunted or Stressed Plants (D1)          Geomorphic Position (D2)           Shallow Aquitard (D3)           FAC-Neutral Test (D5)
Field Observations:	2
Surface water Present? Yes <u>Voc</u> No Depth (inches):	0
Saturation Present? Yes <u>V</u> No Depth (inches): (includes capillary fringe)	0 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks: old settling pond	

Sampling Point: WUPA014e_W

		Absoluto	Dominant I	adicator	Dominance Test worksheet:
I I ree Stratum (Plot size:	0)	% Cover	Species?	Status	Number of Demisert Operator
1	/				That Are OBL EACIAL or EAC: 1 (A)
· ·					
2					Total Number of Dominant
3			. <u></u>		Species Across All Strata: 1 (B)
4.					
					Percent of Dominant Species
5			·		That Are OBL, FACW, or FAC: (A/B)
6					
7.					Prevalence Index worksheet:
		0	- Total Covo	r	Total % Cover of: Multiply by:
				0	OBL species $93 \times 1 = 93$
		20% 01	total cover:		11 $22$
Sapling/Shrub Stratum (Plot siz					FACW species $x = 0$
1.					FAC species $x_3 = 0$
2			·		FACU species $0   x 4 = 0$
Z			·		$1$ IPI species $0$ $x_5 = 0$
3			- <u> </u>		104   115   115
4					Column Totals: (A) (B)
5					Provolonce Index - P/A = -11
6					Hudrophytic Vogetation Indicators
7.					nyurophytic vegetation indicators:
			·		1 - Rapid Test for Hydrophytic Vegetation
			·		✓ 2 - Dominance Test is >50%
9			. <u> </u>		$\checkmark$ 3 - Prevalence Index is <3.0 ¹
		0	= Total Cove	r	A Marshala sizel A dar (affara) ¹ (Precide arrangetian
	50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations" (Provide supporting
Harb Stratum (Diat aiza)	0				data in Remarks or on a separate sheet)
Typha latifolia	)	80	Vaa		Problematic Hydrophytic Vegetation ¹ (Explain)
1. Typna lationa		00	res	UBL	
2. Scirpus atrovirens		10	No	OBL	1
3. Juncus effusus		7	No	FACW	Indicators of hydric soil and wetland hydrology must
A Eleocharis intermedia		4	No	FACW	be present, unless disturbed or problematic.
4. Corox lunulino		2			Definitions of Four Vegetation Strata:
5. Carex iupulina			N		
			No	OBL	
6.			<u>No</u>	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
6			<u>No</u>		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of beint
6 7			<u>No</u>		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6 7 8					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6 7 8 9					<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1)</li> </ul>
6 7 8 9 10.			No		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
6 7 8 9 10			 		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
6 7 8 9 10 11			<u>No</u>		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless</li> </ul>
6 7 8 9 10 11		 	No		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
6 7 8 9 10 11	50% of total cover:52		   = Total Cove f total cover:		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Weady vine – All woody vince greater than 2.28 ft in</li> </ul>
6 7 8 9 10 11 Woody Vine Stratum (Plot size:	50% of total cover:52 0		No No Total Cove f total cover:_		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size:	50% of total cover:52 )		Total Cove		<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1	50% of total cover:52 0)			20.8	<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2	50% of total cover:52 0)				<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3	50% of total cover:52 0)				<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4	50% of total cover:52				<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4	50% of total cover:52 )				<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5	50% of total cover:52 )				<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5	50% of total cover:52 )		No No Total Cove total cover:	20.8	<ul> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation Present? Yes <u>Yes</u> No</li> </ul>
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5	50% of total cover:52 		No     No     Total Cove     total cover:       Total Cove     total cover:       Total Cove     total cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>Yes</u> No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover:52 ) 		No     No     Total Cove     total cover:      Total Cove     total cover:      Total Cove     total cover:	     	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>Ves</u> No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover:52 ) 50% of total cover:0 ers here or on a separate s	     	No	     	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover:52 ) 	     	No		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>Ves</u> No
6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size:         1.         2.         3.         4.         5.         Remarks: (Include photo numb	50% of total cover:52 ) 50% of total cover:0 ers here or on a separate s				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover:52 ) 		No No Total Cove f total cover: Total Cover: Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes _ ✓ _ No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover:52 ) 				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
6	50% of total cover: 52 0) 50% of total cover: 0 50% of total cover: 0 ers here or on a separate s		Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
6	50% of total cover: 52 0) 50% of total cover: 0 50% of total cover: 0 ers here or on a separate s		Total Cover:	      	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
6	50% of total cover: 52 0) 50% of total cover: 0 50% of total cover: 0 ers here or on a separate s		Total Cover:	      	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?         Yes No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover: 52 0) 50% of total cover: 0 50% of total cover: 0 ers here or on a separate s		Total Cover:	  20.8	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?         Yes No
6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size: 1 2 3 4 5 Remarks: (Include photo numb	50% of total cover: 52 0) 50% of total cover: 0 50% of total cover: 0 ers here or on a separate s		Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?         Yes No

Depth     Matrix     Redox Features       (inches)     Color (moist)     %     Type1     Loc2     Texture     Remarks       0-18     10YR 5/1     90     10YR 4/6     10     C     PL/M     SIC
Color (moist)         %         Type1         Loc2         Texture         Remarks           0-18         10YR 5/1         90         10YR 4/6         10         C         PL/M         SIC
0-18 10YR 5/1 90 10YR 4/6 10 C PL/M SIC
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148)
Hydrogen Sulfide (A4)     Loamy Gleved Matrix (F2)     Piedmont Floodplain Soils (F19)
Stratified Lavers (A5) // Depleted Matrix (F3) // MI RA 136 147)
2 cm Muck (A10) (I RR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TE12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8)
Sandy Mucky Mineral (S1) (LRR N Iron-Manganese Masses (F12) (LRR N
MIRA 147 148) MIRA 136)
Sandy Gleved Matrix (S4) Limbric Surface (E13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation and
Sandy Bedox (S5) Diedmont Eloodalain Soils (E10) (MLRA 136, 122) wetland hydrology must be present
Sandy Redox (S5) Fiedmont Floodplain Solis (FT9) (MERA 146) Weitand Hydrology must be present,
Supped Matrix (50) Red Patent Material (121) (MERA 121, 141) unless disturbed of problematic.
Туре:
Depth (inches): No
Remarks:



Photo 1 Wetland data point WUPA014e_w facing west



Photo 2 Wetland data point WUPA014e_w facing north

Project/Site: SERP	City/County: Upshur		Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	_ Sampling Point: WUPA014_U
Investigator(s): GB, SK	_ Section, Township, Range	No PLSS in this Area	
Landform (hillslope, terrace, etc.): TERRACE	ocal relief (concave, convex,	none): <u>none</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): N Lat: 38.85366989	Long:	80.1603558	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loams, 15	to 25 percent slopes	NWI classifica	ation: None
Are climatic / hydrologic conditions on the site typical for this time of y	vear? Yes 🗹 No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Nor	mal Circumstances" pr	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If neede	ed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point loca	ations, transects,	important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	✓ ✓ ✓	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point on a strip mine terra	ce for a PEM w	etland				

Н	ΥI	DF	20	L	0	GΥ	
					-		

Wetland Hydrology Indicate	ors:				Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)					Surface Soil Cracks (B6)		
Surface Water (A1) True Aquatic Plants (B14)					Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Hydrogen Sulfide Odor (C1)					Drainage Patterns (B10)		
Saturation (A3)			Oxidized Rhizospheres on Living	Roots (C3)	Moss Trim Lines (B16)		
Water Marks (B1)			Presence of Reduced Iron (C4)		Dry-Season Water Table (C2)		
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Sc	oils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)			Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)			Other (Explain in Remarks)		Stunted or Stressed Plants (D1)		
Iron Deposits (B5)					Geomorphic Position (D2)		
Inundation Visible on Aer	ial Imagery	(B7)			Shallow Aquitard (D3)		
Water-Stained Leaves (B	39)				Microtopographic Relief (D4)		
Aquatic Fauna (B13)					FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No 🗹	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No	_ Depth (inches):	Wetland I	-lydrology Present? Yes No		
Describe Recorded Data (stre	eam gauge,	monitoring	well, aerial photos, previous inspec	tions), if ava	ailable:		
Remarks:							
no nydrology indicators							

Sampling Point: WUPA014_U

	Abcoluto	Dominant	Indicator	Dominanco Tost workshoot:					
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Demiser ( Demiser)					
1 1				Number of Dominant Species					
2		. <u> </u>		Total Number of Dominant					
3				Species Across All Strata: 4 (B)					
4.									
5				Percent of Dominant Species					
				That Are OBL, FACW, or FAC: (A/B)					
6				Provalance Index worksheet:					
7									
	0	= Total Cove	er	I otal % Cover of: Multiply by:					
50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =					
Sanling/Shrub Stratum (Plot size: 0		-		FACW species $0   x 2 = 0$					
				$FAC species 40$ $x_3 = 120$					
1		. <u> </u>		$50 \times 3^{\circ} = 200$					
2				FACU species $x 4 = 50$					
3.				UPL species $10 \times 5 = 50$					
1				Column Totals: $100$ (A) $370$ (B)					
o			<u> </u>	Prevalence Index = $B/A = $ 3.7					
6				Hydrophytic Vegetation Indicators:					
7				A Denid Test (and huber huber) (a restation					
8									
<u>.                                    </u>				2 - Dominance Test is >50%					
9		·		3 - Prevalence Index is $≤3.0^1$					
	0	= Total Cove	er	4 - Morphological Adaptations ¹ (Provide supporting					
50% of total cover:0	20% of	total cover:	0	deta in Remarka ar an a concrete sheat)					
Herb Stratum (Plot size:0_)									
1 Solidago rugosa	30	Yes	FAC	Problematic Hydrophytic Vegetation' (Explain)					
<ul> <li>Dactylis glomerata</li> </ul>	15	Yes	FACU						
	15			¹ Indicators of hydric soil and wetland hydrology must					
3. riagana vesca	15	res	FACU	be present, unless disturbed or problematic.					
4. Anthoxanthum odoratum	15	Yes	FACU	Definitions of Four Vegetation Strata					
_{5.} Leucanthemum vulgare	10	No	UPL						
6 Dichanthelium clandestinum	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or					
- Achilles millefolium	5	No	EACU	more in diameter at breast height (DBH), regardless of					
		110	TACO	height.					
8				Sanling/Shrub Woody plants excluding vines loss					
9				than 3 in. DBH and greater than or equal to 3.28 ft (1					
10				m) tall.					
10									
11. <u> </u>	100			Herb – All herbaceous (non-woody) plants, regardless					
	100	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.					
50% of total cover: 50	20% of	total cover:	20	Woody vine All woody vines greater than 2.28 ft in					
Woody Vine Stratum (Plot size: 0 )				height					
1				- Holgha					
·· <u> </u>									
2									
3									
4				Hydrophytic					
5.				Vegetation					
	0	Total Car		Present? Yes No					
			0						
	20% of	total cover:	<u> </u>						
Remarks: (Include photo numbers here or on a separate s	heet.)								
Profile Des	cription: (Describe t	o the depth	needed to docur	nent the in	dicator o	or confirm	the absence	of indicato	ors.)
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Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-12	10YR 3/4	100					SCL	ROCK AT	12"
	·						·		
						·			
¹ Tvpe: C=C	oncentration. D=Deple	etion. RM=R	educed Matrix. M	S=Masked S	Sand Gra	ains.	² Location: F	L=Pore Lini	ng. M=Matrix.
Hydric Soil	Indicators:						Indic	ators for Pr	oblematic Hydric Soils ³ :
Histoso	(A1)		Dark Surface	(\$7)			2	cm Muck (A	A10) (MI RA 147)
Histic E	ninedon ( $\Delta$ 2)		Polyvalue Be	low Surface	- (S8) <b>(M</b>		148)	Coast Prairie	Redox (A16)
Rlack H	istic ( $\Delta$ 3)		Thin Dark St	urface (SQ) (	(MI RA 1	A7 148)	<u> </u>	/ΜΙ RΔ 14	7 148)
<u> </u>	an Sulfide $(\Delta A)$			d Matrix (F	2)	47, 140)			odolain Soile (E19)
Tryuroge	d Lovors (A5)		Loanty Cleye	triv (E2)	2)		'		6 1/7)
			Depieteu Ivia	uix (F3) Surface (E6	•		、	(IVILICA IS	Dork Surface (TE12)
2 cm ivit	d Balaw Dark Surface	(111)	Redox Dark	Surface (Fo	) (FZ)			Very Snallow	Dark Surface (TFTZ)
Depiete		(ATT)	Depleted Dat	K Sunace (	Γ <i>1</i> )		_ (	Juner (⊏xpiai	n in Remarks)
	ark Surface (A12)		Redox Depre	essions (F8)	) - (540) <b>(</b> 1				
Sandy M	Aucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) <b>(</b> l	_RR N,			
MLR	A 147, 148)		MLRA 13	6)			3.		
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ice (F13) <b>(N</b>	ILRA 13	6, 122)	°Inc	dicators of hy	/drophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain Soi	ils (F19)	(MLRA 14	8) we	etland hydro	logy must be present,
Stripped	d Matrix (S6)		Red Parent M	Aaterial (F2	1) (MLR/	A 127, 147	) ur	less disturb	ed or problematic.
Restrictive	Layer (if observed):								
Type: N	JNE								
Depth (in	ches):						Hydric Soi	I Present?	Yes No 🖌
Remarks:	,		_				,		
itemains.									
1									



**Photo 1** Upland data point WUPA014_u facing east



Photo 2 Upland data point WUPA014_u facing south

Project/Site: SERP	City/County: Upshur		_ Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015e_W
Investigator(s): GB, SK	Section, Township, Rar	nge: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): FLOODPLAIN	Local relief (concave, conv	ex, none): <u>convex</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.8537448</u> Long	g: <u>-80.15943429</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very	stony silt loams, 15 to 25 percent slopes	NWI classif	cation: None
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	/ significantly disturbed? Are "I	Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	/ naturally problematic? (If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sampling point lo	ocations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>✓</u> Yes <u>✓</u> Yes <u>✓</u>	No No No	Is the Sampled Area within a Wetland?	Yes 🥢 No
Remarks:				
Wetland data point for a saturated to s intermittent stream	easonally floode	d PEM wetland whic	h is part of a PEM/PFO wetl	and complex in the floodplain of SUPA019 -

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 2	
Saturation Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
standing water present in pockets	

Sampling Point: WUPA015e_W

	Absolute	Dominant l	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	New here ( De minest Original
1				That Are OBL EACW or EAC: 3 (A)
	·			
2	·			Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				
	·			Percent of Dominant Species
o	·			That Are OBL, FACW, or FAC: (A/B)
6				Dravalan oo in day waxkab aat
7				Prevalence index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	f total cover:	0	OBL species $45$ x 1 = $45$
	20 % 0			$FACW$ species $\frac{35}{x^2} = 70$
Sapling/Shrub Stratum (Plot size:)				10 $30$
1		<u></u>		FAC species $x^3 = 0$
2.				FACU species x 4 =
2				UPL species $0 \times 5 = 0$
J	·			Column Totolo: 90 (A) 145 (P)
4	·	<u> </u>	<u> </u>	(A)(B)
5		<u> </u>		Prevalence Index = P/A = 1.61
6.				
7	·			Hydrophytic Vegetation Indicators:
[ <i>t</i>	·	<u></u> -		1 - Rapid Test for Hydrophytic Vegetation
8		- <u> </u>		✓ 2 - Dominance Test is >50%
9				
	0	- Total Cove		· 3 - Prevalence Index Is ≤3.0
50% of total covor: 0	20%	f total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
	20% 0	r total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Evaluation)
1. Scirpus atrovirens	25	Yes	OBL	
2 Juncus effusus	25	Yes	FACW	
Carex prasina	20	Ves	OBI	¹ Indicators of hydric soil and wetland hydrology must
3. Ourox prusina	20			
		<u> </u>	- CDL	be present, unless disturbed or problematic.
4. Dichanthelium clandestinum	10	No	FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4. Dichanthelium clandestinum 5. Osmundastrum cinnamomeum	10 10	No No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4. Dichanthelium clandestinum 5. Osmundastrum cinnamomeum	10 10	No No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Dichanthelium clandestinum     Dichanthelium clandestinum     S. Osmundastrum cinnamomeum     6.	10 10	No No	FAC FACW	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
Dichanthelium clandestinum     Dichanthelium clandestinum     S. Osmundastrum cinnamomeum     6. 7.	10 10	<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Dichanthelium clandestinum     Dichanthelium clandestinum     Osmundastrum cinnamomeum     .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .      .	10 10	<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub Woody plants, excluding vines, less
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.	10 10	<u>No</u> No	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1.11)</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.         10	<u>    10                                </u>	<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No No No 	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           No           Total Cove           f total cover:	FAC FACW 18	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           No           Total Cover:	FAC           FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of sheet.)	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of 5heet.)	No           No           No           No           Total Cover:	FAC           FACW           18           0	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of	No           No           No           No           Total Cover:	FAC           FACW           18           0	be present, unless disturbed or problematic.   Definitions of Four Vegetation Strata:   Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody vine – All woody vines greater than 3.28 ft in height.
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	10 10 	No           No           No           No           Total Cover:	FAC         FACW	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	 	Total Cover:	FAC FACW	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <u>Ves</u> No

Color (moist)       %       Color (moist)       %       Type'       Loc'       Texture       Remarks         0-6       0-6       0       0       10YR 4/1       90       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         6-12       10YR 4/1       90       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       0YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       0       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       0       SCL       SCL       ROCK AT 12"       Indicators for Problematic Hyd         1       Depleted Matrix, MS=Masked Sand Grains.       2 corn Muc	Depth Matrix	Redo	x Features	\$			
0-6       decaying sphagnum mos:         6-12       10 YR 4/1       90       10 YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         Image: Solution of the second	(inches) Color (moist) %	Color (moist)	%	Type'	Loc ²	Texture	Remarks
6-12       10 YR 4/1       90       10 YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         Image: Solution of the second secon	0-6						decaying sphagnum moss
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         lydric Soil Indicators:       Indicators for Problematic Hyd         Histic Epipedon (A2)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147, 148)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16)         Ydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Very Shallow Dark Surface (         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Bleyed Matrix (S4)       Untric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vege         Sandy Gleyed Matrix (S4)       Durbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vege	6-12 10YR 4/1 90	10YR 5/8	10	С	PL/M	SCL	ROCK AT 12"
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         ydric Soil Indicators:       Indicators for Problematic Hyd         Histosol (A1)							 
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         ydric Soil Indicators:       Indicators for Problematic Hyd							
ydric Soil Indicators:       Indicators for Problematic Hyd	Type: C=Concentration, D=Depletion, RN	I=Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: I	  PL=Pore Lining, M=Matrix.
	ydric Soil Indicators:					Indie	cators for Problematic Hydric Soils ³ :
	<ul> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LRR N)</li> <li>Depleted Below Dark Surface (A11)</li> <li>Thick Dark Surface (A12)</li> <li>Sandy Mucky Mineral (S1) (LPR N)</li> </ul>	<ul> <li> Dark Surface</li> <li> Polyvalue Be</li> <li> Thin Dark Su</li> <li> Loamy Gleye</li> <li>✓ Depleted Ma</li> <li> Redox Dark Suppression</li> <li> Redox Depression</li> <li> Redox Depression</li> </ul>	e (S7) elow Surfac irface (S9) ed Matrix (I trix (F3) Surface (F rk Surface essions (F8	ce (S8) <b>(M</b> (MLRA 1 F2) 6) (F7) 3)	ILRA 147, 47, 148)	148)  	2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16) <b>(MLRA 147, 148)</b> Piedmont Floodplain Soils (F19) <b>(MLRA 136, 147)</b> Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Reday (S5) Piedmont Floodplain Soils (F10) (MI RA 148) wetland hydrology must be pr	MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 13	6) ice (F13) (	MLRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
	_ Sandy Redox (S5)	Piedmont Flo	odplain So	oils (F19)	(MLRA 14	<b>8)</b> w	etland hydrology must be present,
_ Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problemat	_ Stripped Matrix (S6)	Red Parent N	Material (F	21) <b>(MLR</b> /	A 127, 147	) u	nless disturbed or problematic.
estrictive Layer (if observed): Type:	estrictive Layer (if observed): Type: MONE						
Depth (inches): Yes	Depth (inches):					Hydric So	il Present? Yes 🖌 No
emarks:	emarks:					L	



Photo 1 Wetland data point WUPA015e_w facing east



Photo 2 Wetland data point WUPA015e_w facing north

Project/Site: SERP	City/County: Upsh	nur	Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015f_W
Investigator(s): GB, SK	Section, Township	o, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): FLOODPLAIN	Local relief (concave	, convex, none): <u>convex</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.853	63534	Long: <u>-80.15923195</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loan	ns, 15 to 25 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling po	int locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	No No No	Is the Sampled Area within a Wetland?	Yes 🖌 No			
Remarks:							
Wetland data point for a saturated to seasonally flooded PFO wetland which is part of a PEM/PFO wetland complex in the floodplain of SUPA019 - intermittent stream							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 2	
Saturation Present? Yes <u>✓</u> No <u>Depth</u> (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
standing water present in pockets	

Sampling Point: WUPA015f_W

	Absoluto	- Dominant li	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	
Betula alleghaniensis	25	Yes	FAC	Number of Dominant Species
	20	Ves	FAC	That Are OBL, FACW, of FAC: (A)
2. <u>Acer rubrum</u>		165		Total Number of Dominant
3. Ulmus rubra	5	No	FAC	Species Across All Strata: 7 (B)
4				()
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>85.71428571</u> (A/B)
6				
7.				Prevalence Index worksheet:
	50		r	Total % Cover of: Multiply by:
50% of total approx 25			10	OBL species ⁸ x 1 = ⁸
	20% 01	total cover.		$E_{ACW}$ species $\frac{21}{2}$ x 2 - $\frac{42}{2}$
Sapling/Shrub Stratum (Plot size:)				$76 \qquad 228$
1. Betula alleghaniensis	18	Yes	FAC	FAC species $\frac{70}{10}$ x 3 = $\frac{220}{50}$
_{2.} Hamamelis virginiana	6	Yes	FACU	FACU species $13$ x 4 = $52$
- Fagus grandifolia	3	No	FACU	UPL species $0 \times 5 = 0$
3				Column Totolo: $118$ (A) $330$ (P)
4				
5				Drovelance Index D/A 279
6				
7				Hydrophytic Vegetation Indicators:
1				1 - Rapid Test for Hydrophytic Vegetation
8				$\checkmark$ 2 - Dominance Test is $>50\%$
9.				
	27		r	3 - Prevalence Index is ≤3.0°
50% of total across 13.5			5.4	4 - Morphological Adaptations ¹ (Provide supporting
	<u></u> 20% of	total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Broblematic Hydrophytic Vegetation ¹ (Evaluin)
1. Osmundastrum cinnamomeum	15	Yes	FACW	
2 Carex oligosperma	8	Yes	OBL	
Athyrium asplenioides	8	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
		103		be present, unless disturbed or problematic.
4. Carex grayi	6	No	FACW	Definitions of Four Vegetation Strata:
_{5.} Fragaria vesca	4	No	FACU	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
-				more in diameter at breast height (DBH), regardless of
7				height.
8				Conting/Chrub Wardy planta avaluding visca laga
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
	41	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 20.5	20% of	total cover:	8.2	
Woody Vine Stratum (Plot size: 0)				Woody vine – All woody vines greater than 3.28 ft in
(i lot 0.20.				neight.
I		·		
2				
3				
4				
				Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? fes <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
······································	,			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix Color (moist)	0/_	Color (moist)	x Feature:	S Type ¹	$1 \text{ oc}^2$	Texture	Pemarks	
0-3		/0		70	туре		Texture	decaying sphagnum moss	
3-12	10YR 4/1	90	10YR 5/8	10	С	PL/M	SCL	ROCK AT 12"	
						·			
						·			
						·			
¹ Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils':	
Histosol	(A1)		Dark Surface	e (S7)	( <b>a</b> - ) ( <b>a</b>		2	2 cm Muck (A10) <b>(MLRA 147)</b>	
Histic Ep	oipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie Redox (A16)	
Black Hi	Stic (A3) $(A4)$			inace (59) od Matrix (	(IVILKA 1 E2)	47, 148)		(MLRA 147, 148) Diedmont Floodalain Soils (F19)	
<u> </u>	H Javers (A5)		✓ Depleted Ma	trix (F3)	ΓΖ)		r	(MI RA 136 147)	
2 cm Mi	uck (A10) (I RR N)		Redox Dark	Surface (F	6)		١	/ery Shallow Dark Surface (TE12)	
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)		Other (Explain in Remarks)		
Thick Da	ark Surface (A12)	( )	Redox Depre	essions (F	B)				
Sandy N	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR N,			
MLR	A 147, 148)		MLRA 13	6)					
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(</b>	MLRA 13	6, 122)	³ Inc	dicators of hydrophytic vegetation and	
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,	
Stripped	l Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	' <b>)</b> ur	nless disturbed or problematic.	
Restrictive	Layer (if observed):								
Type: NC	DNE								
Depth (in	ches):						Hydric Soi	l Present? Yes 🥓 No	
Remarks:							1		



Photo 1 Wetland data point WUPA015f_w facing east



Photo 2 Wetland data point WUPA015f_w facing south

Project/Site: SERP	City/County: Upshur		Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015_U
Investigator(s): GB, SK	Section, Township, Range	No PLSS in this Are	a
Landform (hillslope, terrace, etc.): <u>HUMMOCK</u>	Local relief (concave, convex,	none): <u>convex</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.6</u>	35366515 Long: -	80.1593293	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt lo	pams, 15 to 25 percent slopes	NWI classific	cation: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes 🔽 No	(If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed? Are "Nor	mal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology n	aturally problematic? (If neede	d, explain any answe	ers in Remarks.)
			• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No <u>′</u>
Remarks: Upland data point taken on a large hum	mock within a P	PEM/PFO complex			

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)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No V Depth (inches):	
Water Table Present?       Yes No        V       Depth (inches):         Saturation Present?       Yes No        V       Depth (inches):         (includes capillary fringe)       Yes No        V	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       ✓       Depth (inches):	Wetland Hydrology Present?       Yes       No         ctions), if available:
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       No       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Ves       No       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       Remarks:       No       ✓         No       ✓       No       ✓       No       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         no hydrology indicators       No	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No        V       Depth (inches):         Saturation Present?       Yes No        V       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No

Sampling Point: WUPA015_U

	Abcoluto	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Dominance rest worksheet.
Betula lenta	15	<u> </u>	FACU	Number of Dominant Species
		163		That Are OBL, FACW, or FAC:4 (A)
_{2.} Betula alleghaniensis	15	Yes	FAC	
Acer rubrum	12	Yes	FAC	Total Number of Dominant
				Species Across All Strata: (B)
4				Porcent of Dominant Species
5.				That Are OBL EACIM or EAC: $40$ (A/B)
6				
0				Prevalence Index worksheet:
7				
	42	= Total Cover		<u>I otal % Cover of:</u> <u>Multiply by:</u>
50% of total cover: 21	20% of	total cover:	8.4	OBL species x 1 =
				FACW species $0$ x 2 = $0$
Sapling/Shrub Stratum (Plot size:)				$\frac{47}{47}$
1. Betula lenta	15	Yes	FACU	FAC species $x_3 = 0.00$
2. Hamamelis virginiana	10	Yes	FACU	FACU species $\frac{65}{x4} = \frac{260}{x4}$
<ul> <li>Betula alleghaniensis</li> </ul>	10	Yes	FAC	UPL species $0 \times 5 = 0$
			54011	112 + 112 + 112 + 112 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101 + 101
4. Fagus grandifolia	10	Yes	FACU	Column Totals: (A) (B)
5				0.50
<u>.</u>				Prevalence Index = $B/A = 3.58$
б				Hydrophytic Vegetation Indicators:
7				Donid Toot for Understands the Manufatter
8				1 - Kapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
9				3 - Prevalence Index is $\leq 3.0^{1}$
	45	= Total Cover		
50% of total cover: 22.5	20% of	total cover:	9	4 - Morphological Adaptations' (Provide supporting
				data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	10			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dennstaedtia punctilobula	10	Yes	FACU	
2 Mitchella repens	5	Yes	FACU	
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Deminiono or i our vegetation ottata.
				<b>Tree</b> – Woody plants, excluding vines, 3 in, (7.6 cm) or
6		<u> </u>		more in diameter at breast height (DBH), regardless of
7				height.
8				
0				Conting/Chruch Woody planta availuding vince loss
		·		Saping/Shrub – woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10 11				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless
9 10 11		= Total Cover		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9 10 11 50% of total cover:7.5	15	= Total Cover	3	<ul> <li>Herb – All herbaceous (non-woody) plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
9 10 11 50% of total cover:7.5 Woody Vine Stratum (Plot size: 0)	15 20% of	= Total Cover total cover:	3	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in bright</li> </ul>
9 10 11 <u>50% of total cover: 7.5</u> <u>Woody Vine Stratum</u> (Plot size: 0)	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9		= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9		= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	15 20% of 10	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	 	= Total Cover total cover: Yes  = Total Cover	3 FAC	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9		= Total Cover total cover:   = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9		= Total Cover total cover:   = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9		= Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	 20% of 	= Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No

Profile Des	scription: (Describe	to the dept	h needed to docu	ment the ir	ndicator	or confirm	the absence of in	dicators	.)
Depth	Matrix		Redo	x Features	<b>-</b> 1	. 2	<b>-</b> .		
(inches)	Color (moist)		Color (moist)	%	Type	Loc	<u>l exture</u>		Remarks
0-3	10YR 3/2	100					SL		
3-6	10YR 4/4	100					SL		
6-18	10YR 5/3	100					SCL		
¹ Type: C=0	Concentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Po	e Lining.	M=Matrix.
Hydric Soi	I Indicators:		,				Indicators	for Prob	lematic Hydric Soils ³ :
Histos	ol (A1)		Dark Surface	e (S7)			2 cm N	luck (A1	)) (MLRA 147)
Histic I	=ninedon (A2)		Polyvalue Be	Nov Surfac	e (S8) <b>(N</b>	II RA 147	148) Coast	Prairie R	edox(A16)
Rlack I	$-pipedon(\Lambda 2)$		Thin Dark Su	urface (SQ)	(MI RA 1	47 148)	(MI)		148)
Hydror	ren Sulfide (A4)		Loamy Gleve	andee (65) ad Matrix (F	()) [2]	47, 140)	Piedmo	ont Flood	Inlain Soils (F19)
Stratifi	ed Lavers (A5)		Depleted Ma	triv (F3)	2)		1 Iedilik (MI I	7 A 136	147)
0.12011	Auck (A10) (I RR N)		Beday Dark	Surface (Ef	3)		Verv S	hallow D	ark Surface (TE12)
2 cm iii	ed Below Dark Surfac	o (A11)	Redux Dalk	rk Surface	) (F7)		Very 3	Evolain i	n Remarks)
Depiet	Dark Surface (A12)		Depleted Da	accione (E8	(17)				n Kenlaks)
Sandy	Mucky Mineral (S1) (				י) ה (F12) <b>(I</b>				
Oanuy	1/100Ky Milleral (31) (1	,		6)	3 (1 12) <b>(</b> 1	LININ 1 <b>4</b> ,			
Nu⊏r Sandv	Gleved Matrix (S4)		Umbric Surf	0) 000 (E13) <b>(I</b>		6 122)	³ Indicator	e of hydr	onhytic vegetation and
Sandy	Reday (S5)		Onblic Suite	nodolain Sc		0, 122) (MI DA 14	8) wetland	bydrolog	w must be present
Strippe	A Matrix (S6)		Red Parent I	Material (F2	21) (MI R	Δ 127 147		isturhed	or problematic
Restrictive	Laver (if observed):					~ 127, 147		Istarbea	
Type: N	IONE								
Depth (i	nches):						Hydric Soil Pres	ent? \	/es No 🖌
Remarks:							1		



**Photo 1** Upland data point WUPA015_u facing east



**Photo 2** Upland data point WUPA015_u facing north

Project/Site: SERP	City/County: Upshur		_ Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015e_W
Investigator(s): GB, SK	Section, Township, Rar	nge: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): FLOODPLAIN	Local relief (concave, conv	ex, none): <u>convex</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.8537448</u> Long	g: <u>-80.15943429</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very	stony silt loams, 15 to 25 percent slopes	NWI classif	cation: None
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	/ significantly disturbed? Are "I	Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	/ naturally problematic? (If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sampling point lo	ocations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>✓</u> Yes <u>✓</u> Yes <u>✓</u>	No No No	Is the Sampled Area within a Wetland?	Yes 🥢 No
Remarks:				
Wetland data point for a saturated to s intermittent stream	easonally floode	d PEM wetland whic	h is part of a PEM/PFO wetl	and complex in the floodplain of SUPA019 -

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 2	
Saturation Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
standing water present in pockets	

Sampling Point: WUPA015e_W

	Absolute	Dominant l	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Demiser ( Demiser)
1				That Are OBL EACW or EAC: 3 (A)
	·			
2	·			Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				
	·			Percent of Dominant Species
o	·			That Are OBL, FACW, or FAC: (A/B)
6				Dravalan oo in day waxkab aat
7				Prevalence index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	f total cover:	0	OBL species $45$ x 1 = $45$
	20 % 0			$FACW$ species $\frac{35}{x^2} = 70$
Sapling/Shrub Stratum (Plot size:)				10 $30$
1		<u></u>		FAC species $x^3 = 0$
2.				FACU species x 4 =
2				UPL species $0 \times 5 = 0$
J	·			Column Totolo: 90 (A) 145 (P)
4	·	<u> </u>	<u> </u>	(A) (B)
5		<u> </u>		Prevalence Index = P/A = 1.61
6.				
7	·			Hydrophytic Vegetation Indicators:
[ <i>t</i>	·	- <u></u> -		1 - Rapid Test for Hydrophytic Vegetation
8		- <u> </u>		✓ 2 - Dominance Test is >50%
9				
	0	- Total Cove		· 3 - Prevalence Index Is ≤3.0
50% of total covor: 0	20%	f total cover:	0	4 - Morphological Adaptations ¹ (Provide supporting
	20% 0	r total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Evaluation)
1. Scirpus atrovirens	25	Yes	OBL	
2 Juncus effusus	25	Yes	FACW	
<ul> <li>Carex prasina</li> </ul>	20	Ves	OBI	¹ Indicators of hydric soil and wetland hydrology must
3. Ourox prusina	20			
		<u> </u>	- CDL	be present, unless disturbed or problematic.
4. Dichanthelium clandestinum	10	No	FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4. Dichanthelium clandestinum 5. Osmundastrum cinnamomeum	10 10	No No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4. Dichanthelium clandestinum 5. Osmundastrum cinnamomeum	10 10	No No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Dichanthelium clandestinum     Dichanthelium clandestinum     S. Osmundastrum cinnamomeum     6.	10 10	No No	FAC FACW	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
Dichanthelium clandestinum     Dichanthelium clandestinum     S. Osmundastrum cinnamomeum     6. 7.	10 10	<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
A. Dichanthelium clandestinum     S. Osmundastrum cinnamomeum     6.     7.     8.	10 10	No No No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub Woody plants, excluding vines, less
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.	10 10	<u>No</u> No	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1.11)</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.         10	<u>    10                                </u>	<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.         10.		<u>No</u> No	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6.         7.         8.         9.         10.         11.		No No	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	<u>    10</u> 10 10	No No No 	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	10 10 90 20% of	No No No 	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No No No Total Cove f total cover:_	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in bright</li> </ul>
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No No No 	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           No           Total Cove           f total cover:	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           No           Total Cove           f total cover:	FAC FACW 18	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           Second Se	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           Second Se	FAC FACW	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of	No           No           No           No           Total Cover:	FAC           FACW           18	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 20% of 0	No           No           No           No           Total Cover:	FAC           FACW           18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 0 20% of 20% of	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of sheet.)	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of sheet.)	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes <u>v</u> No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of 5heet.)	No           No           No           No           Total Cover:	FAC           FACW           18           0	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	10 10 10 	No           No           No           No           Total Cover:	FAC FACW 18	be present, unless disturbed or problematic.   Definitions of Four Vegetation Strata:   Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody vine – All woody vines greater than 3.28 ft in height.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	90 90 20% of 20% of 20% of	No           No           No           No           Total Cover:	FAC           FACW           18           0	be present, unless disturbed or problematic.   Definitions of Four Vegetation Strata:   Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody vine – All woody vines greater than 3.28 ft in height.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	10 10 10 	Total Cover:	FAC         FACW         18         0	be present, unless disturbed or problematic.   Definitions of Four Vegetation Strata:   Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody vine – All woody vines greater than 3.28 ft in height.
4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6		No           No           No           No           Total Cover:	FAC         FACW         18         0	be present, unless disturbed or problematic.   Definitions of Four Vegetation Strata:   Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.   Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   Woody vine – All woody vines greater than 3.28 ft in height.
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4. Dichanthelium clandestinum         5. Osmundastrum cinnamomeum         6	 	Total Cover:	FAC FACW	<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation Present? Yes <u>Ves</u> No</li> </ul>

Color (moist)       %       Color (moist)       %       Type'       Loc'       Texture       Remarks         0-6       0-6       0       0       10YR 4/1       90       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         6-12       10YR 4/1       90       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       0YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       0       C       PL/M       SCL       ROCK AT 12"         0       0       10YR 5/8       0       SCL       SCL       ROCK AT 12"       Indicators for Problematic Hyd         1       Depleted Matrix, MS=Masked Sand Grains.       2 corn Muc	Depth Matrix	Redo	x Features	\$			
0-6       decaying sphagnum mos:         6-12       10 YR 4/1       90       10 YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         Image: Solution of the second	(inches) Color (moist) %	Color (moist)	%	Type'	Loc ²	Texture	Remarks
6-12       10 YR 4/1       90       10 YR 5/8       10       C       PL/M       SCL       ROCK AT 12"         Image: Solution of the second secon	0-6						decaying sphagnum moss
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         lydric Soil Indicators:       Indicators for Problematic Hyd         Histic Epipedon (A2)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147, 148)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16)         Ydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Very Shallow Dark Surface (         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Bleyed Matrix (S4)       Untric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vege         Sandy Gleyed Matrix (S4)       Durbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vege	6-12 10YR 4/1 90	10YR 5/8	10	С	PL/M	SCL	ROCK AT 12"
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         ydric Soil Indicators:       Indicators for Problematic Hyd         Histosol (A1)							 
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         ydric Soil Indicators:       Indicators for Problematic Hyd							
ydric Soil Indicators:       Indicators for Problematic Hyd	Type: C=Concentration, D=Depletion, RN	I=Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: I	  PL=Pore Lining, M=Matrix.
	ydric Soil Indicators:					Indie	cators for Problematic Hydric Soils ³ :
	<ul> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LRR N)</li> <li>Depleted Below Dark Surface (A11)</li> <li>Thick Dark Surface (A12)</li> <li>Sandy Mucky Mineral (S1) (LPR N)</li> </ul>	<ul> <li> Dark Surface</li> <li> Polyvalue Be</li> <li> Thin Dark Su</li> <li> Loamy Gleye</li> <li>✓ Depleted Ma</li> <li> Redox Dark Suppression</li> <li> Redox Depression</li> <li> Redox Depression</li> </ul>	e (S7) elow Surfac irface (S9) ed Matrix (I trix (F3) Surface (F rk Surface essions (F8	ce (S8) <b>(M</b> (MLRA 1 F2) 6) (F7) 3)	ILRA 147, 47, 148)	148)  	2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16) <b>(MLRA 147, 148)</b> Piedmont Floodplain Soils (F19) <b>(MLRA 136, 147)</b> Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Reday (S5) Piedmont Floodplain Soils (F10) (MI RA 148) wetland hydrology must be pr	MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 13	6) ice (F13) (	MLRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
	_ Sandy Redox (S5)	Piedmont Flo	odplain So	oils (F19)	(MLRA 14	<b>8)</b> w	etland hydrology must be present,
_ Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problemat	_ Stripped Matrix (S6)	Red Parent N	Material (F	21) <b>(MLR</b> /	A 127, 147	) u	nless disturbed or problematic.
estrictive Layer (if observed): Type:	estrictive Layer (if observed): Type: MONE						
Depth (inches): Yes	Depth (inches):					Hydric So	il Present? Yes 🖌 No
emarks:	emarks:					L	



Photo 1 Wetland data point WUPA015e_w facing east



Photo 2 Wetland data point WUPA015e_w facing north

Project/Site: SERP	City/County: Upsh	nur	Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015f_W
Investigator(s): GB, SK	Section, Township	o, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): FLOODPLAIN	Local relief (concave	, convex, none): <u>convex</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.853	63534	Long: <u>-80.15923195</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loan	ns, 15 to 25 percent slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling po	int locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	No No No	Is the Sampled Area within a Wetland?	Yes 🖌 No	
Remarks:					
Wetland data point for a saturated to seasonally flooded PFO wetland which is part of a PEM/PFO wetland complex in the floodplain of SUPA019 - intermittent stream					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> </ul>	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 2	
Saturation Present? Yes <u>✓</u> No <u>Depth</u> (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
standing water present in pockets	

Sampling Point: WUPA015f_W

	Absoluto	- Dominant li	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	
Betula alleghaniensis	25	Yes	FAC	Number of Dominant Species
	20	Ves	FAC	That Are OBL, FACW, of FAC: (A)
2. <u>Acer rubrum</u>		165		Total Number of Dominant
3. Ulmus rubra	5	No	FAC	Species Across All Strata: 7 (B)
4				()
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>85.71428571</u> (A/B)
6				
7.				Prevalence Index worksheet:
	50		r	Total % Cover of: Multiply by:
50% of total appears 25			10	OBL species ⁸ x 1 = ⁸
	20% 01	total cover.		$E_{ACW}$ species $\frac{21}{2}$ x 2 - $\frac{42}{2}$
Sapling/Shrub Stratum (Plot size:)				$76 \qquad 228$
1. Betula alleghaniensis	18	Yes	FAC	FAC species $\frac{70}{10}$ x 3 = $\frac{220}{50}$
_{2.} Hamamelis virginiana	6	Yes	FACU	FACU species $13$ x 4 = $52$
- Fagus grandifolia	3	No	FACU	UPL species $0 \times 5 = 0$
3				Column Totolo: $118$ (A) $330$ (P)
4				
5				Drovelance Index D/A 279
6				
7				Hydrophytic Vegetation Indicators:
1				1 - Rapid Test for Hydrophytic Vegetation
8				$\checkmark$ 2 - Dominance Test is $>50\%$
9.				
	27		r	3 - Prevalence Index is ≤3.0°
50% of total across 13.5			5.4	4 - Morphological Adaptations ¹ (Provide supporting
	<u></u> 20% of	total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Broblematic Hydrophytic Vegetation ¹ (Evaluin)
1. Osmundastrum cinnamomeum	15	Yes	FACW	
2 Carex oligosperma	8	Yes	OBL	
Athyrium asplenioides	8	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
		103		be present, unless disturbed or problematic.
4. Carex grayi	6	No	FACW	Definitions of Four Vegetation Strata:
_{5.} Fragaria vesca	4	No	FACU	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Conting/Chrub Wardy planta avaluding vince loss
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
	41	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 20.5	20% of	total cover:	8.2	
Woody Vine Stratum (Plot size: 0)				Woody vine – All woody vines greater than 3.28 ft in
(i lot 0.20.				neight.
I		·		
2				
3				
4				
				Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? fes <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
······································	,			

Profile Desc	cription: (Describe to	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	0/_	Color (moist)	x Feature:	S Type ¹	$1 \text{ oc}^2$	Texture	Pemarks
0-3		/0		70	туре		Texture	decaying sphagnum moss
3-12	10YR 4/1	90	10YR 5/8	10	С	PL/M	SCL	ROCK AT 12"
						·		
						·		
						·		
¹ Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils':
Histosol	(A1)		Dark Surface	e (S7)	( <b>a</b> - ) ( <b>a</b>		2	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	oipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie Redox (A16)
Black Hi	Stic (A3) $(A4)$			inace (59) od Matrix (	(IVILKA 1 E2)	47, 148)		(MLRA 147, 148) Diedmont Floodalain Soils (F19)
<u> </u>	H Javers (A5)		✓ Depleted Ma	trix (F3)	ΓΖ)		r	(MI RA 136 147)
2 cm Mi	uck (A10) (I RR N)		Redox Dark	Surface (F	6)		١	/ery Shallow Dark Surface (TE12)
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)	( )	Redox Depre	essions (F	B)			
Sandy N	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(</b>	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(</b>	MLRA 13	6, 122)	³ Inc	dicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,
Stripped	l Matrix (S6)		Red Parent M	Material (F	21) <b>(MLR</b>	A 127, 147	' <b>)</b> ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NC	DNE							
Depth (in	ches):						Hydric Soi	l Present? Yes 🥓 No
Remarks:							1	



Photo 1 Wetland data point WUPA015f_w facing east



Photo 2 Wetland data point WUPA015f_w facing south

Project/Site: SERP	City/County: Upshur		Sampling Date: 7/15/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA015_U
Investigator(s): GB, SK	Section, Township, Range	No PLSS in this Are	a
Landform (hillslope, terrace, etc.): <u>HUMMOCK</u>	Local relief (concave, convex,	none): <u>convex</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.6</u>	35366515 Long: -	80.1593293	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt lo	pams, 15 to 25 percent slopes	NWI classific	cation: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes 🔽 No	(If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed? Are "Nor	mal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology n	aturally problematic? (If neede	d, explain any answe	ers in Remarks.)
			• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No <u>′</u>
Remarks: Upland data point taken on a large hum	mock within a P	PEM/PFO complex			

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)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No V Depth (inches):	
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Yes       No       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       ✓       Depth (inches):	Wetland Hydrology Present?       Yes       No         ctions), if available:
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       No       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Ves       No       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       Remarks:       No       ✓         No       ✓       No       ✓       No       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         no hydrology indicators       No	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No        V       Depth (inches):         Saturation Present?       Yes No        V       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No v       Depth (inches):         Saturation Present?       Yes No v       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       no hydrology indicators	Wetland Hydrology Present? Yes No

Sampling Point: WUPA015_U

	Abcoluto	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Dominance rest worksheet.
Betula lenta	15	<u> </u>	FACU	Number of Dominant Species
		163		That Are OBL, FACW, or FAC:4 (A)
_{2.} Betula alleghaniensis	15	Yes	FAC	
Acer rubrum	12	Yes	FAC	Total Number of Dominant
				Species Across All Strata: (B)
4				Porcent of Dominant Species
5.				That Are OBL EACIN/ or EAC: $40$ (A/B)
6				
0				Prevalence Index worksheet:
7				
	42	= Total Cover		<u>I otal % Cover of:</u> <u>Multiply by:</u>
50% of total cover: 21	20% of	total cover:	8.4	OBL species x 1 =
				FACW species $0$ x 2 = $0$
Sapling/Shrub Stratum (Plot size:)				$\frac{47}{47}$
1. Betula lenta	15	Yes	FACU	FAC species $x_3 = 0.00$
2. Hamamelis virginiana	10	Yes	FACU	FACU species $\frac{65}{x4} = \frac{260}{x4}$
<ul> <li>Betula alleghaniensis</li> </ul>	10	Yes	FAC	UPL species $0 \times 5 = 0$
			54011	$\frac{112}{112}$ (1) $\frac{401}{112}$ (1)
4. Fagus grandifolia	10	Yes	FACU	Column Totals: (A) (B)
5				0.50
<u>.</u>				Prevalence Index = $B/A = 3.58$
б				Hydrophytic Vegetation Indicators:
7				Donid Toot for Understands the Manufatter
8				1 - Kapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
9				3 - Prevalence Index is $\leq 3.0^{1}$
	45	= Total Cover		
50% of total cover: 22.5	20% of	total cover:	9	4 - Morphological Adaptations' (Provide supporting
				data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	10			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dennstaedtia punctilobula	10	Yes	FACU	
2 Mitchella repens	5	Yes	FACU	
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Deminiono or i our vegetation ottata.
		·		<b>Tree</b> – Woody plants, excluding vines, 3 in, (7.6 cm) or
6		<u> </u>		more in diameter at breast height (DBH), regardless of
7				height.
8				
0				Conting/Chruch Woody planta availuding vince loss
		·		Saping/Shrub – woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10 11				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless
9 10 11		= Total Cover		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9 10 11 50% of total cover:7.5	15	= Total Cover	3	<ul> <li>Herb – All herbaceous (non-woody) plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
9 10 11 50% of total cover:7.5 Woody Vine Stratum (Plot size: 0)	15 20% of	= Total Cover total cover:	3	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in bright</li> </ul>
9 10 11 <u>50% of total cover: 7.5</u> <u>Woody Vine Stratum</u> (Plot size: 0)		= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9		= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9		= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	15 20% of 10	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> </ul>
9	15 20% of 10	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	<ul> <li>Saping/Sirub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation</li> </ul>
9	 	= Total Cover total cover: Yes	3 FAC	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	 	= Total Cover total cover: Yes  = Total Cover	3 FAC	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes No
9		= Total Cover total cover:   = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9		= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	15 20% of 10 	= Total Cover total cover: Yes  = Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9		= Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No
9	 20% of 	= Total Cover total cover:	3 FAC 2	Saping/Shrub – woody plants, excluding whes, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody vine – All woody vines greater than 3.28 ft in height.         Hydrophytic Vegetation Present?       Yes No

Profile Des	scription: (Describe	to the dept	h needed to docu	ment the ir	ndicator	or confirm	the absence of in	dicators	.)
Depth	Matrix		Redo	x Features	<b>-</b> 1	. 2	<b>-</b> .		
(inches)	Color (moist)		Color (moist)	%	Type	Loc	<u>l exture</u>		Remarks
0-3	10YR 3/2	100					SL		
3-6	10YR 4/4	100					SL		
6-18	10YR 5/3	100					SCL		
¹ Type: C=0	Concentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Po	e Lining.	M=Matrix.
Hydric Soi	I Indicators:		,				Indicators	for Prob	lematic Hydric Soils ³ :
Histos	ol (A1)		Dark Surface	e (S7)			2 cm N	luck (A1	)) (MLRA 147)
Histic I	=ninedon (A2)		Polyvalue Be	Nov Surfac	e (S8) <b>(N</b>	II RA 147	148) Coast	Prairie R	edox(A16)
Rlack I	$-pipedon(\Lambda 2)$		Thin Dark Su	urface (SQ)	(MI RA 1	47 148)	(MI)		148)
Hydror	ren Sulfide (A4)		Loamy Gleve	andee (65) ad Matrix (F	()) [2]	47, 140)	Piedmo	ont Flood	Inlain Soils (F19)
Stratifi	ed Lavers (A5)		Depleted Ma	triv (F3)	2)		1 Iedilik (MI I	7 A 136	147)
0.12011	Auck (A10) (I RR N)		Beday Dark	Surface (Ef	3)		Verv S	hallow D	ark Surface (TE12)
2 cm iii	ed Below Dark Surfac	o (A11)	Redux Dalk	rk Surface	) (F7)		Very 3	Evolain i	n Remarks)
Depiet	Dark Surface (A12)		Depleted Da	accione (E8	(17)				n Kenlaks)
Sandy	Mucky Mineral (S1) (				י) ה (F12) <b>(I</b>				
Oanuy	1/100Ky Milleral (31) (1	,		6)	3 (1 12) <b>(</b> 1	LININ 1 <b>4</b> ,			
Nu⊏r Sandv	Gleved Matrix (S4)		Umbric Surf	0) 000 (E13) <b>(I</b>		6 122)	³ Indicator	e of hydr	onhytic vegetation and
Sandy	Reday (S5)		Onblic Suite	nodolain Sc		0, 122) (MI DA 14	8) wetland	s of fiyur bydrolog	w must be present
Strippe	A Matrix (S6)		Red Parent I	Material (F2	21) (MI R	Δ 127 147		isturhed	or problematic
Restrictive	Laver (if observed):					~ 127, 147		Istarbea	
Type: N	IONE								
Depth (i	nches):						Hydric Soil Pres	ent? \	/es No 🖌
Remarks:							1		



**Photo 1** Upland data point WUPA015_u facing east



**Photo 2** Upland data point WUPA015_u facing north

Project/Site: SERP	City/County: Up	shur	Sampling Date: 7/15/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB012f_w
Investigator(s): TP	Section, Townsh	nip, Range: <u>No PLSS in this Area</u>	a
Landform (hillslope, terrace, etc.): drainagewah	Local relief (concav	re, convex, none): <u>concave</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 38.8480	06192	Long: <u>-80.14438909</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin channery silt loam, 25 to 35 percen	t slopes	NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes <u></u>	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natur	ally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	owing sampling p	oint locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🥓 No
Remarks:				
Headwater forest wetland above stream	n SUPB013			

Wetland Hydrology Indicat	ors:		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)		<ul> <li>Oxidized Rhizospheres on Living</li> </ul>	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 S	Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Ae	rial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (E	39)		Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	Depth (inches):	
Water Table Present?	Yes No	<ul> <li>Depth (inches):</li> </ul>	
Saturation Present? (includes capillary fringe)	Yes No	✓ Depth (inches):	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (str	eam gauge, monito	oring well, aerial photos, previous inspec	ctions), if available:
Remarks:			

Sampling Point: WUPB012f_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size: 0 )	% Cover	Species?	Status	Number of Deminert Crossies
Acer rubrum	35	Yes	FAC	That Are OBL EACIAL or EAC: 3 (A)
Liriodondron tulinifora	10	Yes	FACU	
2. <u></u>			17.00	Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				
				Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 75 (A/B)
6				
7.				Prevalence Index worksheet:
	45	Total Cava		Total % Cover of: Multiply by:
500/ // / 22	5 0000		9	OBL species $0 \times 1 = 0$
50% of total cover: $22$ .	<u>20% of</u>	total cover:	0	
Sapling/Shrub Stratum (Plot size: 0)				FACW species $x 2 = \frac{100}{125}$
1. Acer rubrum	10	Yes	FAC	FAC species $45$ x 3 = $135$
				FACU species $10 \times 4 = 40$
Z	· · ·	·		
3		. <u> </u>		UPL species X 5 =
4.				Column Totals: (A) (B)
5		·		
J				Prevalence Index = B/A = 2.5
6				Hydrophytic Vegetation Indicators:
7.				
				1 - Rapid Test for Hydrophytic Vegetation
8		·	<u> </u>	✓ 2 - Dominance Test is >50%
9		. <u> </u>		$\checkmark$ 3 - Prevalence Index is <3 0 ¹
	10	= Total Cove	r	
50% of total cover: 5	20% of	total cover:	2	4 - Morphological Adaptations' (Provide supporting
	2070 01			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	~-			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Osmundastrum cinnamomeum	65	Yes	FACW	
2 Fraxinus pennsylvanica	10	No	FACW	
		·		¹ Indicators of hydric soil and wetland hydrology must
3		·		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5.				Dominiono or rodi Vogotanon oriatar
	· · ·	·		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
б		·	<u> </u>	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 weedy) plants, regardless
	75	- Total Covo		of size and woody plants less than 3.28 ft tall
500/ of total answer 37	5 000/ -4		15	
50% of total cover:	<u> </u>	total cover:	10	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0)				height.
1.				
2				
۲		·		
3				
4.				The described a
5				Hydrophytic
		·		Present? Ves V
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Depth	Matrix		Redo	ox Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 3/2	95	10YR 4/6	5	C	PL	SCL		
Type: C=C	oncentration, D=Depl	etion, RM	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=P	ore Lining, M=Matrix	(. Ludnia Caila ³
yaric Soli	Indicators:			(07)			Indicator	S for Problematic H	iyaric Solis
Histosol	(A1)		Dark Surface	e (S7) slovy Surfo	aa (Ca) <b>/M</b>		2 cm	Muck (A10) (MLRA	147)
	pipedon (AZ)			urfooo (SO	Ce (30) (IV	ILKA 147, 47 440)	146) <u> </u>		)
	Suc(A3)			anace (59		47, 140)	(ivi Biodr	LKA 147, 140) mont Floodplain Soil	(E10)
Stratifie	d Lavers (A5)		Depleted Ma	triv (E3)	12)		i ieui	I PA 136 117)	3 (113)
2 cm M			Depleted Ma	Surface (F	6)			Shallow Dark Surfac	o (TE12)
2 cm into Deplete	d Below Dark Surface	Δ11)	Depleted Da	rk Surface (i	0) (F7)		Very	r (Explain in Remark	s)
Depiete Thick D	ark Surface (A12)	5 (ATT)	Depleted Da	ne Sunace	s (17) 8)				3)
Sandy N	Aucky Mineral (S1) (I	RR N.	Iron-Mangar	essions (i nese Mass	o) es (F12) <b>(I</b>	RR N			
MIR	A 147, 148)	,	MI RA 13	1600 Made		,			
Sandy (	Gleved Matrix (S4)		Umbric Surfa	ace (F13)	MIRA 13	6, 122)	³ Indicat	ors of hydrophytic ve	edetation and
Sandy F	Redox (S5)		Piedmont Flo	nodolain S	oils (F19)	(MI RA 14	(8) wetlan	d hydrology must be	present
Stripped	Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127. 147	7) unless	disturbed or probler	natic.
Restrictive	Laver (if observed):			(.		,	,		
Type	.,,								
Dopth (in	choc):						Hydric Soil Bro	sont? Vos V	No
	ches).						Thyunc Son The		
<pre>temarks:</pre>									



Photo 1 Wetland data point WUPB012f_w facing northeast



Photo 2 Wetland data point WUPB012f_w facing southwest

Project/Site: SERP	City/County: Up	shur	Sampling Date: 7/15/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB012_u
Investigator(s): TP	Section, Townsh	hip, Range: No PLSS in this Area	а
Landform (hillslope, terrace, etc.): hillslope	Local relief (concav	ve, convex, none): <u>none</u>	Slope (%): <u>15</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.84796027</u>	Long:80.14435567	Datum: WGS 1984
Soil Map Unit Name: Gilpin channery silt loa	m, 25 to 35 percent slopes	NWI classific	cation: None
Are climatic / hydrologic conditions on the sit	e typical for this time of year? Yes	_ No (If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydro	ology significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydro	ology naturally problematic?	(If needed, explain any answe	ers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	マ マ マ	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living I	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No <u></u>	Wetland Hydrology Present? Yes No
Saturation Present? Yes No V Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present?       Yes       No         tions), if available:
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks:	Wetland Hydrology Present? Yes No
Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Concern Present? Yes Part of the present? Yes Performed Part of the present of the p	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Concern Present? Yes Performance Present? Yes Performance Present? Performance Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes No
Saturation Present?       Yes No _       ✓ Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	Wetland Hydrology Present? Yes No
Saturation Present?       Yes No _       ✓ Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes No
Saturation Present?       Yes No _       ✓ Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Remarks:	Wetland Hydrology Present? Yes No
Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Remarks:	Wetland Hydrology Present? Yes <u>No</u> tions), if available:
Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Remarks:	Wetland Hydrology Present? Yes <u>No</u> tions), if available:
Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       Remarks:	Wetland Hydrology Present? Yes No

Sampling Point: WUPB012_u

,	Abcoluto	Dominant l	ndicator	Dominanca Tast workshoot:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Dominance Test worksneet.
Acer rubrum	20	Yes	FAC	Number of Dominant Species
Prunus serotina	10	Yes	FACU	
2. Livia da adrea traliniferra	10	Vos	EACU	Total Number of Dominant
3. Liriodendron tulipitera	10	165	FACU	Species Across All Strata: 8 (B)
4				
5.				Thet Are ORL EACIAL or EAC: 25 (A/P)
6		·	······································	
-		·		Prevalence Index worksheet:
7	40	·		Total % Cover of: Multiply by:
	40	= Total Cove	r	
50% of total cover: $20$	20% of	total cover:	8	$OBL species \qquad O \qquad x + = O \qquad O$
Sapling/Shrub Stratum (Plot size:0)				FACW species $x^2 = 0$
_{1.} Prunus serotina	10	Yes	FACU	FAC species $30$ x 3 = $90$
··		·		FACU species $75 \times 4 = 300$
Z		·		$\frac{1}{1}   \mathbf{P}   = \frac{1}{2}   \mathbf$
3			<u> </u>	$105 \times 390$
4		·		Column Totals: (A) (B)
5.				Developed by D/A 371
6				
7		·		Hydrophytic Vegetation Indicators:
1				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				$3 - \text{Prevalence Index is } \leq 3.0^{1}$
	10	= Total Cove	r	
50% of total cover: 5	20% of	total cover:	2	4 - Morphological Adaptations' (Provide supporting
Herb Stratum (Plot size: 0)				data in Remarks or on a separate sheet)
Fragaria vesca	25	Voc	EACU	Problematic Hydrophytic Vegetation ¹ (Explain)
1. //ugunu voodu				
2. Smilax glauca	10	Yes	FACU	¹ Indicators of hydric soil and wotland hydrology must
3. Acer pensylvanicum	10	Yes	FACU	be present unless disturbed or problematic
4. Athyrium asplenioides	10	Yes	FAC	Definitions of Four Venetation Strates
5		·		Definitions of Four vegetation Strata:
3		·		<b>Tree</b> – Woody plants, excluding vines, 3 in, (7.6 cm) or
6. <u> </u>		·		more in diameter at breast height (DBH), regardless of
7		. <u> </u>		height.
8		. <u></u>		Carling/Chrysh Weathurlante avaluation visco lass
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall.
		·		,
11	EE	·	<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 27.5	20% of	total cover:	11	Woody vine All woody vines greater than 2.28 ft in
Woody Vine Stratum (Plot size:0 )				height.
1.				- Hong Ha
··		·		
2		·		
3		·		
4				Hydrophytic
5.				Vegetation
	0	= Total Cove	r	Present? Yes No 🖌
50% of total cover: 0	20% of	total cover:	0	
	20 /0 01			
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the depth n	eeded to docum	nent the in	dicator	or confirm	the absence of ind	cators.)		
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	Texture	Remarks		
0-10	10YR 2/2	100					SL			
10-12	10YR 3/3	100					SCL			
							·			
		<u> </u>								
¹ Type: C=C	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore	Lining, M=Matrix	κ.	
Hydric Soil	Indicators:						Indicators for	or Problematic H	lydric Soils ³ :	
Histosol	(A1)	_	Dark Surface	(S7)			2 cm Mu	ck (A10) <b>(MLRA</b>	147)	
Histic E	pipedon (A2)	-	Polyvalue Be	low Surface	e (S8) <b>(N</b>	ILRA 147,	148) Coast P	airie Redox (A16	5)	
Black H	istic (A3)	-	Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(MLR	A 147, 148)		
Hydroge	en Sulfide (A4)	-	Loamy Gleye	ed Matrix (F	2)		Piedmont Floodplain Soils (F19)			
Stratifie	d Layers (A5)	-	Depleted Ma	trix (F3)			(MLR	A 136, 147)		
2 cm Mi	uck (A10) <b>(LRR N)</b>		Redox Dark \$	Surface (F6	S)		Very Sh	allow Dark Surfac	ce (TF12)	
Deplete	d Below Dark Surface	(A11) _	Depleted Dat	K Surface (	(F7)		Other (E	xplain in Remark	S)	
Thick Di	Ark Sunace (A12)		Redux Depre	SSIONS (FO)	) c (E12) <b>(</b>					
Oandy N	Δ 147 148)	<u> </u>	MIRA 13	6)	3 (I IZ) <b>(</b> I	LINIX IN,				
Sandy (	Gleved Matrix (S4)		Umbric Surfa	ce (F13) <b>(N</b>	ILRA 13	6. 122)	³ Indicators	of hydrophytic ve	egetation and	
Sandy F	Redox (S5)	-	Piedmont Flo	odplain So	ils (F19)	(MLRA 14	8) wetland h	ydrology must be	present,	
Stripped	d Matrix (S6)	_	Red Parent N	/laterial (F2	21) <b>(MLR</b>	A 127, 147	) unless dis	turbed or probler	natic.	
Restrictive	Layer (if observed):									
Туре:			_							
Depth (in	ches):		_				Hydric Soil Prese	nt? Yes	No 🖌	
Remarks:							1		-	



Photo 1 Upland data point WUPB012_u facing southwest



Photo 2 Upland data point WUPB012_u facing northeast

Project/Site: SERP	_ City/County: Upshur	_ Sampling Date: 7/1/2014
Applicant/Owner: DOMINION	State: WV	Sampling Point: WUPA011e_W
Investigator(s): GB, TA	_ Section, Township, Range: <u>No PLSS in this An</u>	ea
Landform (hillslope, terrace, etc.): floodplain	ocal relief (concave, convex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): N Lat: 38.84041734	Long: <u>-80.13491582</u>	Datum: WGS 1984
Soil Map Unit Name: Pope sandy loam	NWI classif	ication: None
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology significantl	ly disturbed? Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?       Yes       V       No         Hydric Soil Present?       Yes       V       No         Wetland Hydrology Present?       Yes       V       No         Remarks:       A saturated PEM wetland located between the natural levee of river a seep are included within the mapped boundary of the feature.	Is the Sampled Area within a Wetland? Yes and a steep sideslope; discontinuous ephmeral of	No

Wetland Hydrology Indicato	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of	of one is required; che	Surface Soil Cracks (B6)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeri</li> <li>Water-Stained Leaves (B2)</li> </ul>	   al Imagery (B7) 9)	<ul> <li>True Aquatic Plants (B14)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living I</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Sc</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Roots (C3) bils (C6)	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
Aquatic Fauna (B13)				FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes <u>No</u>	Depth (inches):		
Water Table Present?	Yes 🔽 No 🔄	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes Vo	Depth (inches): ⁶	Wetland H	ydrology Present? Yes <u>V</u> No
Describe Recorded Data (stre	am gauge, monitoring	y well, aerial photos, previous inspec	tions), if ava	ilable:
Remarks:				
Seepage from steep sideslope	is source of hydrolog	γ.		
		<i>.</i>		

Sampling Point: WUPA011e_W

	Absolute	Dominant lu	ndicator	Dominance Test worksheet				
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminent Creation				
1				That Are OBL EACW or EAC $5$ (A)				
		·						
2		·		Total Number of Dominant				
3		·		Species Across All Strata: 5 (B)				
4.								
5		·		Percent of Dominant Species				
J		·		That Are OBL, FACW, or FAC: (A/B)				
6		·		Brovalanca Index workshoot				
7				Frevalence muex worksheet.				
	0	= Total Cove	r	Total % Cover of: Multiply by:				
50% of total cover: 0	20% of	total cover:	0	OBL species <u>40</u> x 1 = <u>40</u>				
	20/0 01			FACW species $40 \times 2 = 80$				
Sapling/Shrub Stratum (Plot size:)	_	N/s s	540	$\frac{30}{30}$ $\frac{90}{30}$				
1. Carpinus caroliniana	5	Yes	FAC	FAC species $x_3 = 40$				
2. Fraxinus pennsylvanica	3	Yes	FACW	FACU species $10 \times 4 = 40$				
3				UPL species $0   x 5 = 0$				
<u> </u>		·		Column Totals: 120 (A) 250 (B)				
4		·						
5				Prevalence Index - B/A - 2.08				
6.								
7		·		Hydrophytic Vegetation Indicators:				
1		·	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation				
8		·		✓ 2 - Dominance Test is >50%				
9				$\checkmark$ 2. Drawalance index is <2.0 ¹				
	8	= Total Cove	r					
50% of total cover: 4	20% of	total cover:	1.6	4 - Morphological Adaptations' (Provide supporting				
5 % of total cover.	20 /0 01			data in Remarks or on a separate sheet)				
Herb Stratum (Plot size:)	o <del>.</del>			Problematic Hydrophytic Vegetation ¹ (Explain)				
1. Dichanthelium clandestinum	25	Yes	FAC					
_{2.} Carex prasina	20	Yes	OBL					
3 Carex lupulina	20	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must				
S	12	No	FACW	be present, unless disturbed or problematic.				
4. Osmanaastram eminaniomeani				Definitions of Four Vegetation Strata:				
5. Dennstaedtia punctilobula	10	No	FACU					
_{6.} Packera aurea	10	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or				
7 Carex grayi	10	No	FACW	more in diameter at breast neight (DBH), regardless of				
	5	No	FACW	neight.				
8			TAOW	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								
	112			Herb – All herbaceous (non-woody) plants, regardless				
56		= Total Cove	r 22.4	of size, and woody plants less than 3.28 ft tall.				
50% of total cover: 50	20% of	total cover:	22.4	<b>Woody vine</b> – All woody vines greater than 3 28 ft in				
Woody Vine Stratum (Plot size: 30 )				height.				
1.								
2		·						
Z		·	<u> </u>					
3		·						
4				Hydrophytic				
5.				Vegetation				
	0	Total Cava	-	Present? Yes V No				
			0					
	20% 01	total cover:	<u> </u>					
Remarks: (Include photo numbers here or on a separate s	heet.)							
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
---------------------------------------------------------------------------------------------------------------------	-------------------------------	----------	----------------------------------	-------------------	---------------------	------------------	-----------------------------	-------------------------------------------------
Depth	Matrix		Redox	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	95	10YR 4/6	5	С	PL	SL	
6-18	10YR 4/1	75	7.5YR 4/6	25	С	PL/M	SCL	
	· ·							
	· ·							
. <u> </u>								
	·			. <u> </u>				
				. <u> </u>				
¹ Type: $C=C_{0}$	oncentration. D=Deple	tion. RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains	² Location: PL =	Pore Lining, M=Matrix
Hydric Soil	Indicators:						Indicato	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2 cr	m Muck (A10) <b>(MLRA 147)</b>
Histic Ep	bipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) Coa	ast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	) (MLRA 1	47, 148)	, <u> </u>	MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		Pie	dmont Floodplain Soils (F19)
Stratified	d Layers (A5)		<ul> <li>Depleted Mat</li> </ul>	rix (F3)			(	MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	⁻ 6)		Ver	y Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Oth	er (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (Fa	8)			
Sandy M	lucky Mineral (S1) <b>(LF</b>	RR N,	Iron-Mangane	ese Mass	es (F12) <b>(</b> I	LRR N,		
MLRA	A 147, 148)		MLRA 130	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	³ Indica	ators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetla	and hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	) unles	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NC	DNE							
Depth (in	ches):						Hydric Soil P	resent? Yes 🖌 No
Remarks:							•	



Photo 1 Wetland data point WUPA011e_w facing southeast



# Photo 2 Wetland data point WUPA011e_w facing southwest

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: SERP	City/County: Upshur		Sampling Date: 7/1/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: wupa011_u
Investigator(s): GB, TA	Section, Township, Ra	nge: No PLSS in this area	
Landform (hillslope, terrace, etc.): NATURAL LEVEE	Local relief (concave, conv	vex, none): <u>convex</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 38.8	4043319 Lon	g: <u>-80.13493145</u>	Datum: WGS 1984
Soil Map Unit Name: Pope sandy loam		NWI classific	ation: None
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed? Are "	Normal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology n	aturally problematic? (If ne	eded, explain any answe	rs in Remarks.)
			• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	<u> </u>	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							
Upland data point for a PEM wetland located on a natural levee between stream and wetland.							

#### 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)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       Yes       No       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present?       Yes       No         vitions), if available:       Vitions       Vitions
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       ✓       Depth (inches):         Saturation Present?       Yes No _       ✓       Depth (inches):         (includes capillary fringe)       No _       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       Remarks:         No hydrology indiators       No       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       No hydrology indiators	Wetland Hydrology Present? Yes No

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

Sampling Point: wupa011_u

	Absoluto	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksheet.
Betula lenta	20	Ves	FACU	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2. Acer saccharum	20	Yes	FACU	Total Number of Dominant
3. Quercus rubra	10	No	FACU	Species Across All Strata: 7 (B)
A Tsuga canadensis	5	No	FACU	
	5	No	FACIL	Percent of Dominant Species
5. Quercus alba		110	T A00	That Are OBL, FACW, or FAC: <u>14.28571428</u> (A/B)
_{6.} Carya ovata	5	No	FACU	
7				Prevalence Index worksheet:
/:	65			Total % Cover of: Multiply by:
20.5		= Total Cover	12	$O_{\text{RL}}$ species $0$ $x_{1} = 0$
50% of total cover: 32.5	20% of	total cover:	13	OBL species         X I =           5         10
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x 2 = 10$
1 Carpinus caroliniana	10	Yes	FAC	FAC species $10$ x 3 = $30$
- Hamamelis virginiana	10	Ves	FACU	FACU species 110 x 4 - 440
		163	T ACU	
3. Fagus grandifolia		Yes	FACU	UPL species $x 5 = 400$
4. Tsuga canadensis	4	No	FACU	Column Totals: (A) (B)
o		·		Prevalence Index = $B/A = 3.84$
6				Hydronbytic Vegetation Indicators:
7				
0				1 - Rapid Test for Hydrophytic Vegetation
o		·		2 - Dominance Test is >50%
9				3 - Prevalence Index is $\leq 3.0^{1}$
	31	= Total Cover	r	4 Merchalogical Adoptetions ¹ (Dravide supporting
50% of total cover: 15.5	20% of	total cover:	6.2	4 - Morphological Adaptations (Provide supporting
Horb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
Dennstaedtia nunctilohula	10	Vee		Problematic Hydrophytic Vegetation ¹ (Explain)
	12	Yes	FACU	
2. Mitchella repens	12	Yes	FACU	4
3 Osmundastrum cinnamomeum	5	No	FACW	Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4		·		Definitions of Four Vegetation Strata:
5				
6.				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of
1		·		neight.
8				Sanling/Shrub - Woody plants, excluding vines, less
9				than 3 in, DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10		·		
11		·		Herb – All herbaceous (non-woody) plants, regardless
	29	= Total Cover	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 14.5	20% of	total cover:	5.8	
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
<u>voody vine oradam</u> (not size:)				neight.
1		·		
2				
3				
		·		
4		·		Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No V
50% of total cover: 0	20% of	total cover:	0	
	20 /0 01			
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe to	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redo	x Features	\$						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc ²	<u>Texture</u>		Remarks		
0-2	10YR3/2	100					SL				
2-10	10YR3/3	100					SL				
10-								COBBLE	STARTING A	T 10"	
¹ Type: C=C	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Linir	ng, M=Matrix.		
Hydric Soil	Indicators:						Indica	ators for Pr	oblematic Hy	ydric Soil	ls³:
Histosol	(A1)		Dark Surface	e (S7)			2	cm Muck (A	(10) <b>(MLRA</b> 1	47)	
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) C	oast Prairie	Redox (A16)		
Black H	istic (A3)		Thin Dark Su	Irface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		F	iedmont Flo	odplain Soils	(F19)	
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)				
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		Very Shallow Dark Surface (TF12)				
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)		C	ther (Explai	n in Remarks	)	
Thick D	ark Surface (A12)		Redox Depre	essions (F8	3)						
Sandy N	Mucky Mineral (S1) (LI	KR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	_RR N,					
NILK/	A 147, 148)		IVILRA 13	0)	MI DA 43	6 400)	³ In d	inctors of h	draphyticyce	notation a	۳d
Sandy C	Dedex (SE)		Uniblic Suna	ice (FI3) (		0, 122) (MI DA 14	<b>e)</b>	icators of hy	anopriyuc veç	jetation a	na
Sanuy r	Matrix (S6)		Fleamont Fit	Joupiain So Jatorial (E	21) <b>(MI P</b>	(IVIERA 14) A 127 1/7	•o) we	less disturbe	ogy must be	present,	
Outpped	I aver (if observed):					~ 127, 147	<b>)</b> un			anc.	
Tuno	Layer (il observeu).										
Type:								-	N.		~
Depth (in	cnes):						Hydric Soil	Present?	res	<u>NO</u>	-
Remarks:											



Photo 1 Upland data point WUPA011_u facing northeast



Photo 2 Upland data point WUPA011_u facing west

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Upshur		Sampling Date: 4/8/2015
Applicant/Owner: Dominion		State: WV	_ Sampling Point: wupb103e_w
Investigator(s): TP, SA	Section, Township, Ran	ge: No PLSS in this area	
Landform (hillslope, terrace, etc.): drainage way	Local relief (concave, conv	ex, none): <u>concave</u>	Slope (%):2
Subregion (LRR or MLRA): N Lat: 38.83	637032 Long	g: <u>-80.12364352</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loa	ms, 3 to 15 percent slopes	NWI classifica	tion: None
Are climatic / hydrologic conditions on the site typical for this t	ime of year? Yes 🔽 No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed? Are "N	Normal Circumstances" pr	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	eded, explain any answers	s in Remarks.)
SUMMARY OF EINDINGS Attach site man s	howing compling point lo	cations transacts	important foaturos ato

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>/</u> N Yes <u>/</u> N Yes <u>/</u> N	Is the Sampled Area within a Wetland?	Yes 🖌 No
Remarks: PEM wetlands abutting SUPB104 along elderberry.	toe of slope. Degra	d due to maintained lawn. Dominant p	lants include green bulrush, sensitive fern, and

#### 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)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Aquatic Fauna (B13)</li> </ul>	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <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>
Field Observations:	
Surface Water Present? Yes No <u>&lt;</u> Depth (inches):	
Water Table Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): 0	
Saturation Present?       Yes	nd Hydrology Present? Yes <u>*</u> No
Remarks:	

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

Sampling Point: wupb103e_w

	•	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1.					That Are OBL, FACW, or FAC: $3$ (A)
·· <u> </u>					
Z					Total Number of Dominant
3					Species Across All Strata: (B)
4					Demonst of Dominant Species
5					That Are OBL EACW or EAC: $100$ (A/B)
6					
7					Prevalence Index worksheet:
7		0	<u> </u>		Total % Cover of Multiply by:
	0		= Total Cove	er O	$\frac{1}{15} \frac{15}{15} = \frac{15}{15}$
	50% of total cover: 0	20% of	total cover:	0	$\frac{10}{5}$
Sapling/Shrub Stratum (Plot si	ze:)				FACW species $x^2 = \frac{10}{45}$
_{1.} Sambucus nigra		5	Yes	FAC	FAC species $5 \times 3 = 15$
2					FACU species $0   x 4 = 0$
2					$1$ IPL species $0$ $x_5 = 0$
3					25 (1) $40$ (1)
4					Column Totals: (A) (B)
5.					Developer later D/A 16
6					Prevalence Index = B/A = 1.0
7					Hydrophytic Vegetation Indicators:
/·					1 - Rapid Test for Hydrophytic Vegetation
8					✓ 2 - Dominance Test is >50%
9.					
		5	- Total Cove		Yevalence Index is ≤3.0°
	50% of total cover: 2.5	20% of	total cover	" 1	4 - Morphological Adaptations ¹ (Provide supporting
	5 v oi iolai cover.	20 % 01	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	)	45			Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens		15	Yes	OBL	
_{2.} Onoclea sensibilis		5	Yes	FACW	
3					'Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
4			<u> </u>		Definitions of Four Vegetation Strata:
5					
6			. <u></u>		Iree – woody plants, excluding vines, 3 in. (7.6 cm) or
7.					height
o					holght
o				<u> </u>	Sapling/Shrub – Woody plants, excluding vines, less
9					than 3 in. DBH and greater than or equal to 3.28 ft (1
10					m) tall.
11.					Harb All borbassays (non woody) plants, regardlass
		20			of size and woody plants less than 3.28 ft tall
	50% of total covor: 10	20% of		4	
	30% OF IOIAI COVEL.	20% 0	total cover.	· · ·	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size	:)				height.
1					
2.					
3					
4					Hydrophytic
5					Vegetation
		0	= Total Cove	er	Present? Yes Vo No
	50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numb	ers here or on a senarate s	heet )			
Remarks. (include photo nume		neet.)			

Depth (inches)       Matrix Color (moist)       Redox Features Color (moist)       Type¹       Loc²       Texture       Remarks         0-12       10YR 4/2       95       10YR 4/6       5       C       PL       CL
Color (moist)       %       Color (moist)       %       Type ¹ Loc ² Texture       Remarks         0-12       10YR 4/2       95       10YR 4/6       5       C       PL       CL       CL
0-12       10YR 4/2       95       10YR 4/6       5       C       PL       CL
Image: Section Sectin Section Section Section Section Section
Image: Statified Layers (A5)       ✓       Depleted Matrix (F3)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Dark Surface (S7)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)         Goast Prairie Redox (A16)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F7)         Thick Dark Surface (A11)       Depleted Dark Surface (F7)         Thick Dark Surface (A12)       Redox Depressions (F8)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,
Image: Image
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       (MLRA 136, 147)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       Other (Explain in Remarks)
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils ³ :
<ul> <li>Histosol (A1)</li> <li>Dark Surface (S7)</li> <li>Polyvalue Below Surface (S8) (MLRA 147, 148)</li> <li>Black Histic (A3)</li> <li>Thin Dark Surface (S9) (MLRA 147, 148)</li> <li>Hydrogen Sulfide (A4)</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Stratified Layers (A5)</li> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Very Shallow Dark Surface (A11)</li> <li>Depleted Dark Surface (F7)</li> <li>Thick Dark Surface (A12)</li> <li>Redox Depressions (F8)</li> <li>Sandy Mucky Mineral (S1) (LRR N,</li> <li>Iron-Manganese Masses (F12) (LRR N,</li> </ul>
2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       Iron-Manganese Masses (F12) (LRR N,
<ul> <li>Depleted Below Dark Surface (A11)</li> <li>Depleted Dark Surface (F7)</li> <li>Thick Dark Surface (A12)</li> <li>Redox Depressions (F8)</li> <li>Sandy Mucky Mineral (S1) (LRR N,</li> <li>Iron-Manganese Masses (F12) (LRR N,</li> </ul>
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (Iron-Manganese Ma
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,
MLRA 147, 148) MLRA 136)
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation and
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Restrictive Layer (if observed):
Туре:
Depth (inches): No
Remarks:



Photo 1 Wetland data point wupb103e_w facing northeast



Photo 2 Wetland data point wupb103e_w facing southwest

# WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline	City/County: Upshur		Sampling Date: 4/8/2015
Applicant/Owner: Dominion		State: WV	_ Sampling Point: <u>wupb103_u</u>
Investigator(s): TP, SA	Section, Township, Ranç	ge: No PLSS in this area	
Landform (hillslope, terrace, etc.): hill slope	Local relief (concave, conve	ex, none): <u>none</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 38.83	321462 Long:	-80.12372394	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest very stony silt loa	ms, 3 to 15 percent slopes	NWI classifica	tion: None
Are climatic / hydrologic conditions on the site typical for this t	me of year? Yes 🖌 No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrologysig	nificantly disturbed? Are "N	ormal Circumstances" pr	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nat	urally problematic? (If nee	ded, explain any answers	s in Remarks.)

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

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

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled So	oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches):	
Water Table Present? Yes No 🖌 Depth (inches):	
Water Table Present?     Yes     No        ✓      Depth (inches):	Wetland Hydrology Present? Yes No/
Water Table Present?       Yes No _       ✓       Depth (inches):         Saturation Present?       Yes No _       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes No
Water Table Present?       Yes       No       ✓       Depth (inches):         Saturation Present?       Yes       No       ✓       Depth (inches):         (includes capillary fringe)       No       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       ✓ Depth (inches):         Saturation Present?       Yes No _       ✓ Depth (inches):         (includes capillary fringe)       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective       ✓         Remarks:       ✓       ✓	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       ✓       Depth (inches):         Saturation Present?       Yes No _       ✓       Depth (inches):         (includes capillary fringe)       ✓       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       ✓       Depth (inches):         Saturation Present?       Yes No _       ✓       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _ ✓ Depth (inches):         Saturation Present?       Yes No _ ✓ Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect         Remarks:       .	Wetland Hydrology Present? Yes No

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

Sampling Point: wupb103_u

	Absolute	- Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Device of Operator
Tsuga canadensis	20	Yes	FACU	Number of Dominant Species
	10	Yes	FAC	
2. <u>Acer 10010111</u>		<u> </u>		Total Number of Dominant
3. Acer saccharum	10	Yes	FACU	Species Across All Strata: 5 (B)
4.				、
				Percent of Dominant Species
D				That Are OBL, FACW, or FAC: 60 (A/B)
6				
7.				Prevalence Index worksheet:
	40			Total % Cover of: Multiply by:
E0% of total appears 20		total cover	8	OBL species $0   x   1 = 0$
50% of total cover	20% 01	total cover:		$E_{ACW}$ appearing $\frac{0}{2}$ x 2 = $\frac{0}{2}$
Sapling/Shrub Stratum (Plot size:)				ACTV species X Z =
1. Acer rubrum	10	Yes	FAC	FAC species $30$ x 3 = $90$
2				FACU species $30$ x 4 = $120$
2				$1$ IPI species $0$ $x_5 = 0$
3				$60 \times 5^{-1} \times 5^{-1$
4				Column Totals: (A) (B)
5.	_		_	
				Prevalence Index = $B/A = 3.5$
0				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				
0				2 - Dominance Test is >50%
9	10			3 - Prevalence Index is ≤3.0 ¹
_	10	= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 5	20% of	total cover:	2	dete in Demerke er en e concrete cheet)
Herb Stratum (Plot size: 5)				data in Remarks of on a separate sheet)
Lycopodium clavatum	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u></u>				
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present unless disturbed or problematic
4				
				Definitions of Four Vegetation Strata:
5				<b>Trop</b> Woody plants excluding vince 2 in (7.6 cm) or
6				more in diameter at breast height (DBH) regardless of
7.				height
				logia
o				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				
	10			Herb – All herbaceous (non-woody) plants, regardless
_	10	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5	20% of	total cover:	2	Weady vine All woody vince greater than 2.39 ft in
Woody Vine Stratum (Plot size: 30)				beight
1				Toight.
2				
3				
4				
				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes <u>*</u> No
50% of total cover: 0	20% of	total cover:	0	
Bemerke: (Include photo numbero horo er en e concrete e	haat )			
Remarks. (include photo numbers here of on a separate s	neet.)			

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absence of	indicators	.)		
Depth	Pepth Matrix		Redox Features								
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	<u>Texture</u>		Remarks		
0-3	10YR 3/3	100					SL				
3-12	10YR 4/4	100					SCL				
		·									
		<u> </u>									
		<u> </u>									
¹ Type: C=C	oncentration D=Depl	etion RM=I	Reduced Matrix MS	S=Masked	Sand Gra	ains	² Location: PL =	Pore Linina	M=Matrix		
Hydric Soil	Indicators:						Indicato	rs for Prob	plematic Hydri	ic Soils ³ :	
Histosol	l (A1)		Dark Surface	(S7)			2 cm	n Muck (A1	0) (MLRA 147)	)	
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(M</b>	ILRA 147,	148) Coa	st Prairie R	edox (A16)		
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(N	ILRA 147,	148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Pied	lmont Flood	lplain Soils (F1	9)	
Stratified Layers (A5)			Depleted Matrix (F3)				(MLRA 136, 147)				
2 cm Muck (A10) (LRR N)			Redox Dark Surface (F6)				Very Shallow Dark Surface (TF12)				
Depleted Below Dark Surface (A11)			Depleted Dai	k Surface	(F7) ⊇)		Other (Explain in Remarks)				
I NICK Da	ark Surrace (A12)		Redox Depre	essions (Fa	5) oc (E12) <b>(I</b>						
Sandy N	Δ 147 148)	<b>ΝΝ Ν</b> ,		636 IVIASS	5 (F12) <b>(I</b>	-nn <b>n</b> ,					
Sandy (	Gleved Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6. 122)	³ Indica	tors of hvdr	ophytic vegeta	ation and	
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetla	nd hydroloc	y must be pres	sent,	
Stripped	d Matrix (S6)		Red Parent M	/laterial (F	21) <b>(MLR</b>	A 127, 147	') unles	s disturbed	or problematic		
Restrictive	Layer (if observed):										
Type:											
Depth (in	iches):						Hydric Soil Pr	esent?	res	No 🖌	
Remarks									<u></u>		



**Photo 1** Upland data point wupb103_u facing southwest



**Photo 2** Upland data point wupb103_u facing east