Project/Site: SERP	City/County: Up	shur	Sampling Date: 8/6/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB101e_w
Investigator(s): TP	Section, Townsh	nip, Range: No PLSS in this are	a
Landform (hillslope, terrace, etc.): drainageway	Local relief (concav	e, convex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): N Lat: 39.0041	8728	Long: <u>-80.28754474</u>	Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loam, 8 to 15 percent slopes		NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes 🔽	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology signif	icantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nature	ally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sampling p	oint locations, 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 is located in a drainage swale in an active cow pasture. Eventually it ties into WLIPA001								
			,,					

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): 0	
Water Table Present?       Yes          ✓ No       Depth (inches):       0          Saturation Present?       Yes          ✓ No       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
Water Table Present?       Yes          ✓	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No       Depth (inches):       0          Saturation Present?       Yes          ✓ No       Depth (inches):       1          (includes capillary fringe)       Image: No       Depth (inches):       1          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:       Image: No       Image: No	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No Depth (inches):         O         Saturation Present? Yes No Depth (inches):         (includes capillary fringe)          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspeced Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No Depth (inches):0         Saturation Present? Yes          ✓ No Depth (inches):1         (includes capillary fringe)          Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No Depth (inches):         O         Saturation Present? Yes          ✓ No Depth (inches):         Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspeced Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No       Depth (inches):       0          Saturation Present?       Yes          ✓ No       Depth (inches):       1          (includes capillary fringe)       Image: Constraint of the second depth	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Water Table Present?       Yes          ✓ No       Depth (inches):       0          Saturation Present?       Yes          ✓ No       Depth (inches):       1          (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:          Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: WUPB101e\_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: <u>3</u> (A)
2.				
3.				Species Across All Strata: 3 (B)
۵ ۸	·			
	·	·		Percent of Dominant Species
o	·	·		That Are OBL, FACW, or FAC: 100 (A/B)
6		·		Prevalence Index worksheet:
7				
	0	= Total Cove	r	60 60
50% of total cover: 0	20% of	total cover:	0	OBL species $\frac{00}{20}$ x 1 = $\frac{00}{10}$
Sapling/Shrub Stratum (Plot size:0)				FACW species $20$ x 2 = $40$
<sub>1.</sub> Salix nigra	10	Yes	OBL	FAC species $0   x 3 = 0$
2		· <u> </u>		FACU species $0   x 4 = 0$
2			<u> </u>	UPL species $0$ x 5 = $0$
3	·	·		$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
4				(B)
5				Prevalence Index = $B/A = 1.25$
6		·		Hudronbutio Vogotation Indiantero
7.				
8	·	·		✓ 1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
9	10	·		$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
_	10	= Total Cove	r 2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 5	20% of	total cover:	2	data in Romarks or on a concrete sheet)
Herb Stratum (Plot size: 0)				
<sub>1.</sub> Leersia oryzoides	25	Yes	OBL	Problematic Hydrophytic Vegetation' (Explain)
2 Carex lupulina	25	Yes	OBL	
2. Impatiens capensis	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10	No	EACW/	be present, unless disturbed or problematic.
4. <u>5000000000000000000000000000000000000</u>	10		TACW	Definitions of Four Vegetation Strata:
5				
6				<b>Free</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
7.				height.
8				
0		·		Sapling/Shrub – Woody plants, excluding vines, less
9	·	·	<u> </u>	than 3 in. DBH and greater than or equal to 3.28 ft (1
10	·	·	<u> </u>	ni) tan.
<u>11.</u>				Herb – All herbaceous (non-woody) plants, regardless
	70	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35	20% of	total cover:	14	We should be Allowed by the second station of the second station
Woody Vine Stratum (Plot size: 0)				woody vine – All woody vines greater than 3.28 ft in
1				noight.
··	·	·	<u> </u>	
2	·	·		
3	·	·		
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 congrate of				
	sileet.)			

Profile Desc	ription: (Describe to	o the dep	oth needed to docur	nent the	indicator of	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S	<u> </u>		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type'	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/2	95	10YR 4/6	5 		PL		
			=Reduced Matrix M	S=Maskee			<sup>2</sup> l ocation: Pl	=Pore Lining M=Matrix
Hydric Soil I	ndicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol Histic Ep Black His Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy M	(A1) pipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) ck (A10) <b>(LRR N)</b> I Below Dark Surface ark Surface (A12) lucky Mineral (S1) <b>(LI</b> A <b>147, 148)</b>	(A11) R <b>R N</b> ,	<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 Su</li> <li> Depleted Data</li> <li> Redox Depresimation</li> <li> Iron-Mangan</li> <li> MLRA 13</li> </ul>	e (S7) elow Surfa inface (S9 ed Matrix trix (F3) Surface (I rk Surface essions (F esse Mass <b>6)</b>	ace (S8) <b>(M</b> ) <b>(MLRA 1</b> (F2) <sup>56</sup> ) ≥ (F7) <sup>(8)</sup> aes (F12) <b>(I</b>	ILRA 147, 47, 148) LRR N,	148) C	cm Muck (A10) <b>(MLRA 147)</b> oast Prairie Redox (A16) <b>(MLRA 147, 148)</b> iedmont Floodplain Soils (F19) <b>(MLRA 136, 147)</b> ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
Sandy G	eleyed Matrix (S4)		Umbric Surfa	ice (F13)	(MLRA 13	6, 122) (MI BA 1/	<sup>3</sup> Indi	icators of hydrophytic vegetation and
Sandy K	Matrix (S6)		Red Parent N	Material (F	5015 (P19) 521) <b>(MLR</b>	A 127, 147	7) we	less disturbed or problematic.
Restrictive L	_ayer (if observed):			inatoriai (i				
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								



Photo 1 Wetland data point WUPB101e\_w facing south



Photo 2 Wetland data point WUPB101e\_w facing east

Project/Site: SERP	City/County: Up	oshur	Sampling Date: 8/6/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB101_u
Investigator(s): TP	Section, Towns	hip, Range: <u>No PLSS</u> in this area	a
Landform (hillslope, terrace, etc.): hillslope	Local relief (conca	ve, convex, none): none	Slope (%): <u>15</u>
Subregion (LRR or MLRA): <u>N</u> Lat	39.00415813	Long: <u>-80.2874664</u>	Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loam, 8 to 15 perce	nt slopes	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes	_ No (If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
			· · · · · · · · · · · · · · · · · · ·

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	ン ン ン	Is the Sampled Area within a Wetland?	Yes	No	×
Remarks: Upland point taken in cow pasture							

### HYDROLOGY

I

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 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 <u></u>	
Water Table Present? Yes No 🖌 Depth (inches):	
Saturation Present? Yes No Vo Depth (inches): Wetland (includes capillary fringe)	l Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	vailable:
Remarks:	

Sampling Point: WUPB101\_u

	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: 0 (A)
		·		
2		·		Total Number of Dominant
3				Species Across All Strata: (B)
4		. <u></u>		Dereent of Deminent Species
5				That Are OBL EACW or EAC $0$ (A/B)
6				
7		· · · · · · · · · · · · · · · · · · ·		Prevalence Index worksheet:
1	0	·	<u> </u>	Total % Cover of Multiply by
	0	= Total Cove		$\frac{1}{0}$
50% of total cover:0	20% of	total cover:	0	$\begin{array}{c} OBL \text{ species} \\ \hline 0 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} x \\ y \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} x \\ y \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} x \\ y \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} y \\ y \\ \hline \end{array} \\ \begin{array}{c} y \\ y \\ y \\ \hline \end{array} \\ \begin{array}{c} y \\ y \\ y \\ y \\ \hline \end{array} \\ \begin{array}{c} y \\ y $
Sapling/Shrub Stratum (Plot size:0				FACW species $x 2 = 0$
1.				FAC species x 3 =
		. <u> </u>		FACU species $95 \times 4 = 380$
2		·		LIPL species $15 \times 5 = 75$
3		·		$\frac{110}{110} \times \frac{455}{110} = \frac{110}{110}$
4				Column Totals: (A) (B)
5.				
6		·		Prevalence Index = $B/A = 4.13$
		·		Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
8				2. Deminence Test is 2 50%
9				
	0	Tatal Cause		3 - Prevalence Index is ≤3.0'
<b>5</b> 00% of the table second <b>0</b>	000/ -/	= Total Cove	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20% 01	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Droblematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
1. Dactylis glomerata	40	Yes	FACU	
<sup>2</sup> Phleum pratense	40	Yes	FACU	
	15	No	LIPI	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Dudduo ourota	45			be present, unless disturbed or problematic.
4. Tritolium pratense	15	NO	FACU	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		·		neight.
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		· · · · · · · · · · · · · · · · · · ·		
· · · · ·	110			<b>Herb</b> – All herbaceous (non-woody) plants, regardless
55		= Total Cove		or size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of	total cover:	22	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 0)				height.
1				
2				
2				
3		·		
4		·		Hydrophytic
5				Vegetation
	0	= Total Cove		Present? Yes No V
50% of total cover: 0	20% of	total cover:	0	
	2070 01			
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Profile Des	scription: (Describe	to the dept	h needed to docur	nent the indic	cator c	or confirm	the absence o	of indicato	rs.)	
Depth	Matrix	0/	Redo	x Features		1 2	Tantan		Devente	
(Incnes)			Color (moist)	<u>%</u> 1	ype	LOC			Remarks	
0-5	101R 4/4	100								
5-12	10YR 5/6	100					CL			
	_	·								
		<u> </u>		<u> </u>						
	_	·								
		·		<u> </u>						
	_	·								
		<u> </u>								
<sup>1</sup> Type: C=C	Concentration, D=Dep	etion. RM=I	Reduced Matrix, MS	S=Masked Sa	nd Gra	ins.	<sup>2</sup> Location: PL	=Pore Linii	na. M=Matrix	
Hydric Soi	I Indicators:		,,				Indicat	ors for Pr	oblematic H	ydric Soils <sup>3</sup> :
Histoso	ol (A1)		Dark Surface	(S7)			20	m Muck (A	(MLRA *	147)
Histic E	Epipedon (A2)		Polvvalue Be	low Surface (	S8) (M	LRA 147.	148) Co	ast Prairie	Redox (A16)	)
Black H	Histic (A3)		Thin Dark Su	Inface (S9) (MI	LRA 14	47. 148)		(MLRA 14	7. 148)	
Hvdrog	aen Sulfide (A4)		Loamv Gleve	d Matrix (F2)		, -,	Pie	dmont Flo	odplain Soils	(F19)
Stratifie	ed Lavers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6. 147)	( - )
2 cm M	luck (A10) (LRR N)		Redox Dark	Surface (F6)			Ve	rv Shallow	Dark Surface	e (TF12)
Deplete	ed Below Dark Surface	e (A11)	Depleted Da	rk Surface (F7	7)		Ot	ner (Explai	n in Remarks	s)
Thick D	Dark Surface (A12)	( )	Redox Depre	essions (F8)	,			、 I		,
Sandy	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan	ese Masses (I	F12) <b>(L</b>	.RR N.				
MLR	RA 147, 148)		MLRA 13	6)	, ,					
Sandy	Gleyed Matrix (S4)		Umbric Surfa	, ice (F13) <b>(MLI</b>	RA 136	6, 122)	<sup>3</sup> Indic	ators of hy	drophytic ve	getation and
Sandy	Redox (S5)		Piedmont Flo	odplain Soils	(F19) <b>(</b>	MLRA 14	8) wet	and hydro	ogy must be	present,
Strippe	ed Matrix (S6)		Red Parent M	Aaterial (F21)	(MLRA	A 127, 147	7) unle	ss disturb	ed or problem	natic.
Restrictive	Layer (if observed):			. ,	•		1		•	
Type:	,									
Denth (ii	nches):						Hydric Soil F	Procont?	Voc	No 🖌
	nones).						Hyunc Soll P	- ieseint?	162	
Remarks:										



**Photo 1** Upland data point WUPB101\_u facing east



Photo 2 Upland data point WUPB101\_u facing south

Project/Site: SERP	City/County: <u>L</u>	Jpshur	_ Sampling Date: <u>6/23/2014</u>
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA001e_W
Investigator(s): GB, LE	Section, Town	iship, Range: <u>No PLSS in this Are</u>	ea
Landform (hillslope, terrace, etc.): FLAT	Local relief (conc	ave, convex, none): <u>none</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>39.00205783</u>	Long: <u>-80.29121691</u>	Datum: WGS 1984
Soil Map Unit Name: Udorthents, mudstone a	and sandstone, high base	NWI classif	ication: None
Are climatic / hydrologic conditions on the site	e typical for this time of year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydro	logy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydro	logy naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attacl	n site map showing sampling	point locations, transect	s, important features, etc.
		-	-

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u></u> Yes <u> Yes</u> Yes <u> Yes</u>	No No No	Is the Sampled Area within a Wetland?	Yes 🔽	No
Remarks: Data point for a saturated PEM wetland v	vhich extends	corridor wide along s	stream SUPA002 in active pas	ture; severely tr	ampled by cattle

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 No 🔽 Depth (inches):	
Saturation Present? Yes No Ver Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	

Sampling Point: WUPA001e\_W

	Absolute	Dominant I	ndicator	Dominance Test worksheet:	
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Number of Dominant Species	
1. Salix nigra	2	Yes	UBL	That Are OBL, FACW, or FAC:4 (A	A)
2				Total Number of Dominant	
3				Species Across All Strata: 4 (E	B)
4.				· `	,
5				Percent of Dominant Species	A (D)
o				That Are OBL, FACW, of FAC: (A	4/В)
o			·······	Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	Z	= Total Cove	r 04	$\frac{1}{1000} \frac{1}{1000} \frac{1}{10000000000000000000000000000000000$	
50% of total cover:1	20% of	total cover:	0.4	$\frac{47}{47} = \frac{94}{47}$	
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = \frac{34}{2}$	
1. Salix nigra	4	Yes	OBL	FAC species $0 x 3 = 0$	
2.				FACU species x 4 =0	
3				UPL species x 5 =0	
3				Column Totals: 121 (A) 168	(B)
4					(_)
5			<u> </u>	Prevalence Index = B/A =1.38	
6				Hydrophytic Vegetation Indicators:	
7				<ul> <li>1 - Rapid Test for Hydrophytic Vegetation</li> </ul>	
8				✓ 2 - Dominance Test is >50%	
9				$\checkmark$ 2 Dominance reaction > 00 / 1	
	4	= Total Cove	r	$\frac{1}{2}$ 3 - Prevalence index is $\leq 3.0$	
50% of total cover: 2	20% of	total cover:	0.8	4 - Morphological Adaptations' (Provide suppor	rting
Herb Stratum (Plot size: 5 )		_		data in Remarks or on a separate sheet)	
1. Typha latifolia	50	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. Phalaris arundinacea	25	Yes	FACW		
3. Juncus effusus	12	No	FACW	'Indicators of hydric soil and wetland hydrology mus	st
A Agrimonia parviflora	10	No	FACW	be present, unless disturbed of problematic.	
Carex lupulina	10	No	OBI	Definitions of Four Vegetation Strata:	
c. Carex vulninoidea	8	No		Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
6. Carex vulpinoidea	0	110	ODL	more in diameter at breast height (DBH), regardless	s of
7				height.	
8				Sanling/Shrub - Woody plants, excluding vines, le	222
9				than 3 in. DBH and greater than or equal to 3.28 ft (	(1
10				m) tall.	
11.					
	115	- Total Cove	r	of size and woody plants less than 3.28 ft tall	ess
50% of total cover: 57.5	20% of	total cover:	23		
Weedy Vine Stratum (Plot size: 30 )	2070 01			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>No</u>	
50% of total cover: 0	20% of	total cover:	0		
	2078 01	total cover.			
Remarks: (Include photo numbers here or on a separate s	sneet.)				

Profile Desc	cription: (Describe to	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	10YR 3/2	96	7.5YR 4/6	4	С	PL	SICL			
6-18		02	7 5VP 1/6	8		DI /M	SIC			<u> </u>
0-10		52	7.511( 4/0							
. <u></u>										
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Linir	ng, M=Matrix.	
Hydric Soil	Indicators:						Indica	ators for Pr	oblematic Hy	dric Soils':
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	10) <b>(MLRA 1</b> 4	47)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) C	oast Prairie	Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		P	iedmont Flo	odplain Soils (	F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		V	ery Shallow	Dark Surface	(TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		C	ther (Explai)	n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)					
Sandy N	/lucky Mineral (S1) <b>(Li</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Ind	icators of hy	drophytic veg	etation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	tland hydrol	logy must be p	resent,
Stripped	l Matrix (S6)		Red Parent M	Aaterial (F	21) <b>(MLR</b>	A 127, 147	' <b>)</b> un	less disturbe	ed or problema	atic.
Restrictive	Layer (if observed):									
Type: cla	у									
Dopth (in	choc). 6						Hydric Soil	Procont?	Voc V	No
	ciles).		<u> </u>				Hyunc Son	Fiesent	165	
Remarks:										



Photo 1 Wetland data point WUPA001e\_w facing east



Photo 2 Wetland data point WUPA001e\_w facing west

Project/Site: SERP		City/County: U	pshur	Sampling Date: 6/23/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA001_U
Investigator(s): GB, LE		Section, Towns	ship, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.):	TOE OF SLOPE	Local relief (conca	ive, convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>39</u>	.00210004	Long: <u>-80.29128276</u>	Datum: WGS 1984
Soil Map Unit Name: Udorthents, r	nudstone and sandston	e, high base	NWI classifi	cation: None
Are climatic / hydrologic conditions	on the site typical for th	is 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.)
	Attack alta man		aint leastions transat	

#### 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 saturated PEM w	etland at the toe	of a sideslope			

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)				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 Aer	rial Imagery	(B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B	39)				Microtopographic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral Test (D5)
Field Observations:					
Surface Water Dresent?	Vec	No 🖌	Depth (inches):		
Surface water Present?	163	_ 110			
Water Table Present?	Yes	No 🖌	Depth (inches):		
Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes	No 🖌	Depth (inches): Depth (inches):	Wetland H	łydrology Present? Yes No∕
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	Yes Yes Yes	No V No V monitoring v	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No✓ ilable:
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree Remarks:	Yes Yes eam gauge,	No V No V monitoring v	Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No ✓ ilable:
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Iydrology Present? Yes No
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	Hydrology Present? Yes No
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	Hydrology Present? Yes No✔ ilable:
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): _ Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No ilable:
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No✔ ilable:
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No⊻ ilable:
Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	Hydrology Present? Yes No✔ ilable:
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	Hydrology Present? Yes No✔ ilable:
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	Hydrology Present? Yes No⊻ ilable:
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre Remarks: no hydrology indicators	Yes Yes eam gauge,	No V No V monitoring v	_ Depth (inches): Depth (inches): well, aerial photos, previous inspec	Wetland H	lydrology Present? Yes No ilable:

Sampling Point: WUPA001\_U

, , ,	Abaaluta	- Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksheet.
	/0 0010.	<u></u>	otatuo	Number of Dominant Species
1		·		That Are OBL, FACW, of FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				( )
-		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				
7.				Prevalence Index worksheet:
	0	Total Cava		Total % Cover of: Multiply by:
		= Total Cove	r 0	OBL species $0 \times 1 = 0$
50% of total cover:	20% of	total cover:	0	
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x^2 = 0$
1.				FAC species $10$ x 3 = $30$
		·		FACU species $93 \times 4 = 372$
2		·		
3				$\begin{array}{c} \text{OPL species} \\ 103 \end{array}  x \text{ 5} = \\ 102 \end{array}$
4.				Column Totals: (A) (B)
5				
<u>.</u>				Prevalence Index = B/A =3.9
б		·		Hydrophytic Vegetation Indicators:
7				1 - Papid Test for Hydrophytic Vegetation
8.				
o		· · <u>· · · · · · · · · · · · · · · · · </u>		2 - Dominance Test is >50%
9	0	·		3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove	r	4 - Morphological Adaptations <sup>1</sup> (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)
Dactvlis glomerata	50	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
[]	00	<u> </u>		
2. Festuca rubra	20	Yes	FACU	<sup>1</sup> Indiantors of hydric coil and watland hydrology must
3. Juncus tenuis	10	No	FAC	he present unless disturbed or problematic
A Phleum pratense	10	No	FACU	
- Trifolium pratense	7	No	EACU	Definitions of Four Vegetation Strata:
5. Thiolan protonice		110	TACO	<b>Trop</b> Woody plants excluding vince 2 in (7.6 cm) or
6. Solanum carolinense	6	No	FACU	more in diameter at breast height (DBH) regardless of
7.				height.
8				
0		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	103	Tatal Cause		of size, and woody plants loss than 2.28 ft tall
500( ( , , ) 515		= Total Cove	20.6	or size, and woody plants less than 5.26 it tall.
50% of total cover:	20% of	total cover:	20.0	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				
2				
2		·		
3				
4				Liver a shutia
5				Vogetation
<u> </u>	0	<b>T</b> ( ) O		Present? Yes No
		= Total Cove	r O	
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			·

Profile Des	cription: (Describe t	o the dept	h needed to docu	ment the in	dicator o	or confirm	the absence	of indicato	ors.)	
Depth	Matrix		Redo	ox Features	1		_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc	Texture		Remarks	
0-8	10YR 4/3	100					SCL			
8-20	10YR 3/3	85					SCL	15% grave	el	
				·						
				·						
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked \$	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Linii	ng, M=Matrix	
Hydric Soil	Indicators:						Indica	ators for Pr	oblematic H	ydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	e (S7)			2	cm Muck (A	(MLRA ·	147)
Histic F	pipedon (A2)		Polyvalue Be	elow Surface	e (S8) <b>(M</b>	LRA 147.	148) <u> </u>	oast Prairie	Redox (A16)	,
Black H	listic (A3)		Thin Dark St	urface (S9)	(MI RA 1	47 148)	o	(MI RA 14	7 148)	·
Hydrog	en Sulfide (A4)		Loamy Glev	ed Matrix (F	2)	,,	P	iedmont Flo	odolain Soils	(F19)
Hydroge Stratifie	d Lavers (A5)		Depleted Ma	triv (E3)	<i>_</i> )		'	/MI PA 13	6 147)	(113)
Oraune			Depieted wa	Surface (E6	:)		V		Dark Surfac	o (TE12)
2 cm M	d Bolow Dork Surface	(111)	Redux Dalk	Surface (F0	() (57)		`	ery Shallow	Dark Suriac	
Depiete	orle Surfage (A12)	; (ATT)			F7)		0			<i>&gt;)</i>
	ark Surface (A12)		Redox Depr	essions (F8)						
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangar	nese Masses	s (F12) <b>(I</b>	_RR N,				
MLR	A 147, 148)		MLRA 13	86)			2			
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(N</b>	ILRA 13	6, 122)	°Ind	icators of hy	/drophytic ve	getation and
Sandy I	Redox (S5)		Piedmont Fl	oodplain Soi	ils (F19)	(MLRA 14	<b>8)</b> we	tland hydro	logy must be	present,
Stripped	d Matrix (S6)		Red Parent	Material (F2	1) <b>(MLR</b>	A 127, 147	) un	less disturb	ed or problem	natic.
Restrictive	Layer (if observed): ONE									
Depth (in	nches):						Hydric Soil	Present?	Yes	No 🖌
Remarks:										



**Photo 1** Upland data point WUPA001\_u facing west



Photo 2 Upland data point WUPA001\_u facing east

Project/Site: SERP	City/County: L	lpshur	Sampling Date: 6/24/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA002e_W
Investigator(s): _GB, LE	Section, Town	ship, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): FLAT	Local relief (conc	ave, convex, none): <u>convex</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.9982563</u>	Long: <u>-80.28849754</u>	Datum: WGS 1984
Soil Map Unit Name: Udorthents, mudstone a	nd sandstone, high base	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydro	logy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydro	logy naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖍 No
Remarks:				
Wetland data point for a PEM wetland I access to feature	betweev an old	road bed and the toe	e of slope, appears to be on t	the terrace of an old strip mine cut, cattle have

Wetland Hydrology Indicators:         Secondary Indicators (minimum of two req	uired)
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)
✓ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)	
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)	
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)	
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C	29)
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 <u>/</u> No Depth (inches): 2	
Water Table Present? Yes <u>/</u> No Depth (inches): 0	
Saturation Present? Yes <u>'</u> No Depth (inches): 0 Wetland Hydrology Present? Yes <u>'</u> No (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	
hydrology varies from semi-permanently flooded to saturated	

Sampling Point: WUPA002e\_W

	Absolute	Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Chaption
A Salix nigra	3	No	OBL	That Are OBL EACW or EAC: $5$ (A)
1. <u> </u>		·		
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				
		·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
	3	- Total Cava		Total % Cover of: Multiply by:
50% - ( 1-1-1	000/ -1		06	OBL species $56 \times 1 = 56$
50% of total cover:	20% of	total cover:		$\frac{56}{56} = \frac{112}{112}$
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = \frac{x^2}{2}$
<sub>1.</sub> Salix nigra	8	Yes	OBL	FAC species $2 \times 3 = 0$
o Sambucus nigra	2	Yes	FAC	FACU species $0   x 4 = 0$
2				
3				$\begin{array}{c} \text{OPL species} \\ \underline{114} \\ \end{array}  \begin{array}{c} \text{X 5} = \\ \underline{174} \\ \end{array}$
4.				Column Totals: (A) (B)
5				
J		·		Prevalence Index = B/A = 1.52
6				Hydrophytic Vegetation Indicators:
7.				
0	-			1 - Rapid Test for Hydrophytic Vegetation
8		·		2 - Dominance Test is >50%
9				$\checkmark$ 3 - Prevalence Index is <3.0 <sup>1</sup>
	10	= Total Cove	er	A Marshala size A destations <sup>1</sup> (Destide answerther)
50% of total cover: 5	20% of	total cover:	2	4 - Morphological Adaptations' (Provide supporting
		10101 00.00		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	20		201	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Typha latifolia	30	Yes	OBL	
Juncus effusus	20	Yes	FACW	
<ul> <li>Carex lunulina</li> </ul>	15	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10			be present, unless disturbed or problematic.
4. Cyperus diandrus	12	NO	FACW	Definitions of Four Vegetation Strata:
<sub>5.</sub> Equisetum pratense	12	No	FACW	
<ul> <li>Impatiens capensis</li> </ul>	12	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. <u>Implatione caponele</u>				more in diameter at breast height (DBH), regardless of
7		·		height.
8				
0				Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 $\pi$ (1
10		·		m) tail.
11.				Herb All borbaccous (pon-woody) plants, regardless
	101	Total Cove		of size and woody plants less than 3.28 ft tall
50% of total agricer 50 f			20.2	01 SIZE, and woody plants 1035 than 5.20 it tail.
50% of total cover:	<u>20% of 20% of 2</u>	total cover:	20.2	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1				
		·		
2		·		
3				
4				
		·		Hydrophytic
5				Vegetation
	0	= Total Cove	۶r	Present? Yes <u>Ves</u> No
50% of total cover: 0	20% of	total cover:	0	
Demorkey (Include photo numbers here of an a concrete a	heat )			
Remarks: (include photo numbers here or on a separate s	neet.)			

Profile Des	cription: (Describe t	o the dep	th needed to docum	nent the i	ndicator o	or confirm	n the absence of indicators.)	
Depth	Matrix	0/	Redo	x Features	<u>s</u>	1 2	Tester	
(inches)			Color (moist)		<u>Type</u>		<u>lexture</u> <u>Remarks</u>	
0-18	10YR 3/1	97	7.5YR 4/6	3	C	PL		
						······		
1- 0.0							2	
Type: C=C	oncentration, D=Deple	etion, RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	uns.	Location: PL=Pore Lining, M=Matrix.	3
Hydric Soli	Indicators:						Indicators for Problematic Hydric Solis	i 1
<u> </u>	(A1)		Dark Surface	e (S7)			2 cm Muck (A10) <b>(MLRA 147)</b>	
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(M</b>	LRA 147,	, <b>148)</b> Coast Prairie Redox (A16)	
Black H	istic (A3)		Thin Dark Su	irface (S9)	(MLRA 1	47, 148)	(MLRA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedmont Floodplain Soils (F19)	
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(MLRA 136, 147)	
2 cm Mi	uck (A10) <b>(LRR N)</b>		Kedox Dark	Surface (F	6)		Very Shallow Dark Surface (TF12)	
Deplete	d Below Dark Surface	(A11)	Depleted Dar	rk Surface	(F7)		Other (Explain in Remarks)	
Thick D	ark Surface (A12)		Redox Depression	essions (F	8)			
Sandy M	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) <b>(L</b>	.RR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Indicators of hydrophytic vegetation an	d
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>18)</b> wetland hydrology must be present,	
Stripped	l Matrix (S6)		Red Parent N	/laterial (F	21) (MLR/	A 127, 147	7) unless disturbed or problematic.	
Restrictive	Layer (if observed):							
Type. No	ONE							
Donth (in	ahaa).						Hudria Sail Brasanta Vas	
Depth (in	cnes):						Hydric Soli Present? Fes No	
Remarks:								



Photo 1 Wetland data point WUPA002e\_w facing east



Photo 2 Wetland data point WUPA002e\_w facing west

Project/Site: SERP		City/County: Upshu		Sampling Date: 6/24/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA002_U
Investigator(s): GB, LE		Section, Township,	Range: No PLSS in this Area	3
Landform (hillslope, terrace, etc.): T	ERRACE Loc	cal relief (concave, c	onvex, none): <u>none</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.99821287</u>	L	.ong: -80.28852399	Datum: WGS 1984
Soil Map Unit Name: Udorthents, m	udstone and sandstone, high base	!	NWI classific	ation: None
Are climatic / hydrologic conditions c	on the site typical for this time of ye	ar?Yes 🖌 No		emarks.)
Are Vegetation, Soil,	, or Hydrology significantly	disturbed? Ai	e "Normal Circumstances" p	oresent? Yes <u>/</u> No
Are Vegetation, Soil,	, or Hydrology naturally pro	oblematic? (If	needed, explain any answe	rs in Remarks.)
	Attack alto man abouting			

### 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 for a PEM wetland or	n an old srip min	e terrac	æ.				

	ors:	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum	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 Aer</li> <li>Water-Stained Leaves (E Aquatic Fauna (B13)</li> </ul>		True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	<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? (includes capillary fringe)	Yes No 🔽	_ Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre no hydrology indicators	Yes No	_ Depth (inches): well, aerial photos, previous inspec	Wetland Hydrology Present? Yes No tions), if available:

Sampling Point: WUPA002\_U

20	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30</u> )	<u>% Cover</u> 15	<u>Species?</u> Yes	<u>Status</u> FACU	Number of Dominant Species
Robinia pseudoacacia	10	Yes	FACU	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: (A/B)
8		·		Prevalence Index worksheet:
7	25	Tatal Caus		Total % Cover of: Multiply by:
50% of total cover: 12.5	5 20% of	= 1 otal Cove	r 5	OBL species $0   x 1 = 0$
Sopling/Shrub Stratum (Plot size: 15 )	<u> </u>			FACW species $0$ $x 2 = 0$
<u>Saping/Sinub Stratum</u> (Flot size)	20	Yes	FACU	FAC species $5 \times 3 = 15$
Pinus riaida	15	Yes	FACU	FACU species $125 \times 4 = 500$
Sambucus nigra	5	No	FAC	UPL species $0 \times 5 = 0$
3				$\begin{array}{c c} \hline 130 \\ \hline 130$
4		·		
5		·		Prevalence Index = B/A =3.96
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		·	<u> </u>	2 - Dominance Test is >50%
9	40	·	. <u> </u>	3 - Prevalence Index is $≤3.0^1$
20	40	= Total Cove	r 8	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: <u>20</u>	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	30	Vaa		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. To a praterioris	15	Yes		
2. Solidago altissina	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Throhum repens	10		FACU	be present, unless disturbed or problematic.
4. Infolium pratense	10	INO	FACU	Definitions of Four Vegetation Strata:
5		·		<b>Tree</b> – Woody plants, excluding vines 3 in (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7	. <u> </u>	·		height.
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.
11				Herb – All herbaceous (non-woody) plants, regardless
	65	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>32.5</u>	20% of	total cover:	13	Woody vine – All woody vines greater than 3 28 ft in
Woody Vine Stratum (Plot size: <u>30</u> )				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover: 0	20% of	total cover:	0	
5 50% of total cover:0 Remarks: (Include photo numbers here or on a separate s	20% of heet.)	= Total Cove	r 0	Vegetation Present? Yes No <u>*</u>

Depth	Matrix		Redo	ox Features						
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Ty	ype <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-18	10YR 3/3	80					SCL	20% shale	e and coal frag	gments
		·								
Type: C=C	oncentration, D=Dep	letion, RM=		S=Masked Sa	nd Gra	 ins.	<sup>2</sup> Location: F	PL=Pore Lini	ng, M=Matrix. oblematic H	vdric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surfac	e (S7)				2 cm Muck (		/47)
Histic F	(AT) ninedon (A2)		Polyvalue B	e (37) elow Surface (9	S8) (M	I R A 147	148) (	Coast Prairie		47)
Black H	istic (A3)		Thin Dark S	urface (S9) (MI	LRA 14	47. 148)	(40) <u> </u>	(MLRA 14	7. 148)	
Hvdroge	en Sulfide (A4)		L oamv Glev	ed Matrix (F2)		,,	ſ	Piedmont Flo	odplain Soils	(F19)
Stratifie	d Lavers (A5)		Depleted Ma	atrix (F3)				(MLRA 13	6, 147)	(
2 cm Mi	uck (A10) (LRR N)		Redox Dark	Surface (F6)			Ň	/erv Shallow	Dark Surface	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surface (F7	)			Other (Expla	in in Remarks	)
Thick D	ark Surface (A12)	• (/ 11 1)	Redox Depr	essions (F8)	,			o (100) (±74) (4		,
Sandy M	/ucky Mineral (S1) (I	RR N	Iron-Mangar	nese Masses (F	=12) <b>(I</b>	RR N				
	Δ 147 148)	,	MIRA 13	36)	/ (-	,				
Sandy (	Gleved Matrix (S4)		Umbric Surf	ace (E13) <b>(MLI</b>	RA 136	5, 122)	<sup>3</sup> In	dicators of h	drophytic ver	netation and
Sandy F	Redox (S5)		Piedmont Fl	oodolain Soils	(F19)	(MI RA 14	8) w	etland hydro	loav must be	present
Stripper	Matrix (S6)		Red Parent	Material (F21)	(MIRA	127.147	) ur	nless disturb	ed or problem	atic
estrictive	aver (if observed):				(	,	, u.		ou o. p.oo.o	
Type: no	ne									
Depth (in	ches):						Hydric Soi	I Present?	Yes	No 🖌
emarks:							1			



Photo 1 Upland data point WUPA002\_u facing west



Photo 2 Upland data point WUPA002\_u facing east

Project/Site: SERP	City/County: Upshur		_ Sampling Date: <u>6/24/2014</u>
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA003e_W
Investigator(s): GB, LE	Section, Township, Rang	e: No PLSS in this Ar	ea
Landform (hillslope, terrace, etc.): SWALE	Local relief (concave, conve	k, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): N	Lat: 38.99317961 Long:	-80.28777976	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classif	ication: None
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "No	ormal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If need	led, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point loc	ations, transect	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:						
Saturated PEM wetland located within a	swale th	hrough	witch stream SUPA	005 flows		

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	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): <u>1</u>	
Saturation Present? Yes <u>V</u> No Depth (inches): 0 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	

Sampling Point: WUPA003e\_W

	Absoluto	- Dominant lu	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
1				That Are OBL EACIAL or EAC: 2 (A)
I		·		
2		·		Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				(=)
-		·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	Tatal O		Total % Cover of: Multiply by:
0		= Total Cove	r O	OBL species 15 $_{\rm Y1}$ 15
50% of total cover: 0	20% of	total cover:	0	90 - 180
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = 100$
1				FAC species $0   x 3 = 0$
··				FACII species = 0 $x 4 = 0$
2		·		
3				UPL species $x_{5} = \frac{1}{105}$
4				Column Totals: (A) (B)
··				
ð				Prevalence Index = $B/A = 1.85$
6				Hydrophytic Vegetation Indicators:
7.				
				1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Brevelence Index is <2.0 <sup>1</sup>
	0	- Total Cove	r	
E0% of total action 0	20%		0	4 - Morphological Adaptations <sup>1</sup> (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 (constation <sup>1</sup> (Euclein)
<sub>1.</sub> Phalaris arundinacea	45	Yes	FACW	Problematic Hydrophytic Vegetation (Explain)
2 Cyperus diandrus	25	Yes	FACW	
		No		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Juncus emusus	20	INO	FACW	be present, unless disturbed or problematic.
4. Carex lupulina	15	No	OBL	Definitions of Four Vegetation Strata
5				Deminions of Four Vegetation Strata.
-		·		<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				
-		·		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				
	105			Herb – All herbaceous (non-woody) plants, regardless
52.5		= I otal Cove	r O1	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>52.5</u>	20% of	total cover:	21	Woody vine - All woody vines greater than 3 28 ft in
Woody Vine Stratum (Plot size: 30 )				height
1				
··			<u> </u>	
2		·		
3				
4				
- ··		·		Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Pomarka: (Include photo numbers here or on a separate s	hoot)			
Remarks. (include photo numbers here of on a separate s	neet.)			

Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-18	10YR 5/2	90	10YR 5/8	10		PL/M	SICL			
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Linin	g, M=Matrix.		
Histosol Histic Eg Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) <b>(LRR N)</b> d Below Dark Surface ark Surface (A12)	(A11)	<ul> <li> Dark Surface</li> <li> Polyvalue Be</li> <li> Thin Dark Su</li> <li> Loamy Gleye</li> <li>✓ Depleted Mat</li> <li> Redox Dark S</li> <li> Depleted Dar</li> <li> Redox Depre</li> </ul>	(S7) low Surfac rface (S9) d Matrix (I rix (F3) Surface (F k Surface ssions (F8	ce (S8) <b>(M</b> (MLRA 1 F2) 6) (F7) 3)	LRA 147, 47, 148)	148) 2 cm Muck (A' Coast Prairie I (MLRA 147 Piedmont Floc (MLRA 136 Very Shallow I Other (Explain	10) <b>(MLRA 147)</b> Redox (A16) , <b>148)</b> odplain Soils (F19) , <b>147)</b> Dark Surface (TF12) in Remarks)		
Sandy M MLR/ Sandy G Sandy F Stripped	Mucky Mineral (S1) <b>(LI A 147, 148)</b> Gleyed Matrix (S4) Redox (S5) I Matrix (S6)	RR N,	Iron-Mangane MLRA 130 Umbric Surfa Piedmont Flo Red Parent M	ese Masse 6) ce (F13) <b>(</b> odplain Se daterial (F2	es (F12) <b>(I</b> MLRA 13 oils (F19) 21) <b>(MLR</b>	₋RR N, 6, 122) (MLRA 14 A 127, 147	<sup>3</sup> Indicators of hyd <b>8)</b> wetland hydrolo ) unless disturber	drophytic vegetation and gy must be present, d or problematic.		
Restrictive Type: Depth (in	Layer (if observed):						Hydric Soil Present?	Yes No		
Remarks:										



Photo 1 Wetland data point WUPA003e\_w facing west



Photo 2 Wetland data point WUPA003e\_w facing east

Project/Site: SERP	City/County: Upshu	ır	Sampling Date: 6/24/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA003_U
Investigator(s): GB, LE	Section, Township,	Range: No PLSS in this Are	а
Landform (hillslope, terrace, etc.): Toe of slope	Local relief (concave, o	convex, none): <u>concave</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 3	88.99314704	Long: <u>-80.28779728</u>	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classifie	cation: None
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes N	o (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed? A	re "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_naturally problematic? (I	f 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	✓ ✓ ✓	Is the Sampled Area within a Wetland?	Yes	No	<u> </u>
Remarks:							
Upland data point taken at the toe of slo	ope above a stre	eam rela	ated PEM in	a swale			

Wetland Hydrology Indicato	ors:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; chec	k 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 Aer</li> <li>Water-Stained Leaves (B</li> <li>Aquatic Fauna (B13)</li> </ul>	ial Imagery (B7)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	<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? (includes capillary fringe)	Yes No _	_ Depth (inches):	Wetland Hydrology Present? Yes No
no hydrlogy indicators Remarks:	arm gauge, monitoring v	well, aerial photos, previous inspec	tions), il available:

Sampling Point: <u>WUPA003\_U</u>

	Abaaluta	Dominant l	diaatar	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminent Coopies
1.				That Are OBL, FACW, or FAC: 0 (A)
2				
3				Total Number of Dominant
4				(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
		= Total Cove	r O	$\begin{array}{c} \hline \hline \\ $
50% of total cover:	20% of	total cover:	0	
Sapling/Shrub Stratum (Plot size:)				$\begin{array}{c} \text{FACW species} \\ \text{FAC associates} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ \text{W2} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} $ \\ \end{array}  \\ \end{array} \\ \end{array}
1				FAC species $372$
2				FACU species $10$ $x = 50$
3				UPL species $10^{\circ}$ x 5 = $422^{\circ}$
4				Column Totals: (A) (B)
5				Dravalance Index D/A 4 09
6				
7.				Hydrophytic vegetation indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
- 5	0	- Total Cava		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Diot aize: 5 )	20 /0 01	total cover.		data in Remarks or on a separate sheet)
Anthoxanthum odoratum	35	Ves	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	25	Voc	EACU	
Z. Dacifilis glomerata	15	No	EACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Though praterise	10		FACU	be present, unless disturbed or problematic.
4. Leucantnemum vulgare	10	NO		Definitions of Four Vegetation Strata:
55	10	No	FACU	Tree March plants quality in a since 2 in (7.0 pm) or
6. Achillea millefolium	8	No	FACU	more in diameter at breast height (DBH) regardless of
7				height.
8				
9				than 3 in, DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
· · · ·	103	- Total Cove	 r	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
50% of total cover: 51.5	20% of	total cover:	20.6	
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1				neight.
·				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the depth	n needed to docu	ment the ir	ndicator	or confirm	the absence of i	ndicato	rs.)	
Depth	Matrix		Redo	ox Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-5	10YR 3/4	100					SCL			
5-18	10YR 5/6	100					SCL			
							. <u> </u>			
·										
		<u> </u>								
<u> </u>										
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=P	ore Linii	ng, M=Matrix	ζ.
Hydric Soil	Indicators:	·	· · · · ·				Indicator	s for Pr	oblematic H	lydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Dark Surface	e (S7) elow Surfac	) (S8)		2 cm	Muck (A	(10) <b>(MLRA</b> Redox (A16	<b>147)</b>
Black H	istic (A3)		Thin Dark S	urface (S9)	(MLRA 1	47. 148)	(M	LRA 14	7. 148)	)
Hvdroae	en Sulfide (A4)		Loamv Glev	ed Matrix (F	<b>(</b>	,,	Piedr	nont Flo	odplain Soils	s (F19)
Stratifie	d Lavers (A5)		Depleted Ma	atrix (F3)	,		(M	LRA 13	6, 147)	- ( - )
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Verv	Shallow	Dark Surfac	e (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)		Other	(Explai	n in Remark	s)
Thick D	ark Surface (A12)	( )	Redox Depr	essions (F8	3)			、 <b>·</b>		,
 Sandv N	/uckv Mineral (S1) <b>(L</b>	RR N.	Iron-Mangar	nese Masse	, s (F12) <b>(I</b>	RR N.				
MLR	A 147. 148)	,	MLRA 13	36)		,				
Sandy (	Gleved Matrix (S4)		Umbric Surfa	ace (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Indicate	ors of hy	drophytic ve	egetation and
Sandy F	Redox (S5)		Piedmont Fl	oodolain So	nils (F19)	(MI RA 14	8) wetlan	d hvdrol	oav must be	present
Stripped	Matrix (S6)		Red Parent	Material (F2	21) (MLR	A 127. 147	) unless	disturbe	ed or probler	natic.
Restrictive	Laver (if observed):			(		,	,			
Type: N	DNE									
Depth (in	ches):						Hydric Soil Pre	sent?	Yes	No
Remarks:							1			



**Photo 1** Upland data point WUPA003\_u facing east



**Photo 2** Upland data point WUPA003\_u facing west

Project/Site: SERP	City/County: Upshur Sampling Date: 6/24/2014
Applicant/Owner: Dominion	State: <u>WV</u> Sampling Point: <u>WUPB001e_</u>
Investigator(s): TP	_ Section, Township, Range: <u>No PLSS in this Area</u>
Landform (hillslope, terrace, etc.): swale	ocal relief (concave, convex, none): <u>concave</u> Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.98439386	Long: -80.28432543 Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loam, 8 to 15 percent slopes	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of	rear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally r	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks: wetland located in swale of hayfield. SUF	PB001 flows	thru 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)	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 <u></u>	
Saturation Present? Yes <u>&lt;</u> No <u>Depth</u> (inches): 0	Wetland Hydrology Present? Yes <u></u> No
(includes capillary fringe)	tione) if everile here
Describe Recorded Data (stream gauge, monitoring weil, aerial photos, previous inspec	tions), if available:
Remarks:	

Sampling Point: WUPB001e\_w

, , , , , , , , , , , , , , , , , , ,	Abaaluta	- Dominant li	adioator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Dominance Test worksheet.
	<u></u>		010100	Number of Dominant Species
l		·	<u> </u>	
2			<u> </u>	Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4.				
5		·		Percent of Dominant Species
J		·		That Are OBL, FACW, or FAC: (A/B)
6			. <u> </u>	Brovalanca Index workshoot
7				
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species45 x 1 =45
Conling/Shruh Stratum (Dist size: 15	2070 0			FACW species $30$ x 2 = $60$
Sapling/Shrub Stratum (Plot size:)				$EAC appealso = 0 x^2 = 0$
1		·		FAC species $x_3 = $
2				FACU species $x 4 = 0$
3				UPL species $0 x 5 = 0$
4		·		Column Totals: 75 (A) 105 (B)
4		·	·	
5				Prevalence Index = $B/A = 1.4$
6		·		
7				Hydrophytic vegetation indicators:
· · · · · · · · · · · · · · · · · · ·		·	·	1 - Rapid Test for Hydrophytic Vegetation
8		·		2 - Dominance Test is >50%
9				$\checkmark$ 3 - Prevalence Index is <3 0 <sup>1</sup>
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations' (Provide supporting
				data in Remarks or on a separate sheet)
Herb Stratum (Piot size)	30	Vaa		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Juncus enusus</u>		res	FACW	
2. Carex lupulina	30	Yes	OBL	1
3. Carex vulpinoidea	15	Yes	OBL	Indicators of hydric soil and wetland hydrology must
4		·		be present, unless disturbed or problematic.
4		·	······	Definitions of Four Vegetation Strata:
5		·	. <u> </u>	Tree Mendu plante qualudia puizza 2 in (7.0 pm) en
6				nee – woody plants, excluding vines, 3 in. (7.6 cm) or
7				height
		·		hoight
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				
	75	Tatal O		Herb – All herbaceous (non-woody) plants, regardless
500/ //	5 000/		r 15	of size, and woody plants less than 5.20 it tall.
50% of total cover:	<u> </u>	total cover:	15	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				ž
2				
2	· ·	·		
3		·		
4		- <u> </u>		Hydrophytic
5.				Vegetation
	0	- Total Covo	r	Present? Yes <b>V</b> No
			0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate	sheet.)			

Depth Matrix			Redo	ox Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR4/1	95	10YR 4/6	5	<u>с</u>		SCL		
							<sup>2</sup> Leastion: DI	Dero Lining M. Motriv	
vdric Soil	Indicators:			S=IVIASKE	a Sanu Gra	anns.		tors for Problematic Hyd	ric Soils <sup>3</sup>
<ul> <li>Histoso</li> <li>Histic E</li> <li>Black H</li> <li>Hydrog</li> <li>Stratifie</li> <li>2 cm M</li> <li>Deplete</li> <li>Thick D</li> <li>Sandy I</li> <li>MLR</li> </ul>	I (A1) pipedon (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>(L</b> A 147, 148)	(A11) RR N,	Dark Surface Polyvalue Ba Thin Dark Su Loamy Gleyy ✓ Depleted Ma Redox Dark Depleted Da Redox Depr Iron-Mangar	e (S7) elow Surfa urface (S9 ed Matrix ( atrix (F3) Surface (F rk Surface essions (F nese Mass (6)	ce (S8) <b>(M</b> ) <b>(MLRA 1</b> F2) 	ILRA 147, 47, 148) LRR N,	2 c 148) Cc Pic Ve Ot	cm Muck (A10) <b>(MLRA 14</b> bast Prairie Redox (A16) <b>(MLRA 147, 148)</b> edmont Floodplain Soils (F <b>(MLRA 136, 147)</b> ery Shallow Dark Surface ( her (Explain in Remarks)	<b>7)</b> F19) TF12)
Sandy (	Gleved Matrix (S4)		Umbric Surfa	ace (F13)	MLRA 13	6. 122)	<sup>3</sup> India	cators of hydrophytic yeae	tation and
Sandy I	Redox (S5)		Piedmont Fl	oodplain S	oils (F19)	(MLRA 14	8) wet	land hydrology must be pr	esent,
_ Strippe	d Matrix (S6)		Red Parent	Material (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> unle	ess disturbed or problemat	ic.
estrictive	Layer (if observed):								
Type:									
Depth (ir	ches):						Hydric Soil I	Present? Yes 🔽	No
emarks:							•		



Photo 1 Wetland data point WUPB001e\_w facing west



Photo 2 Wetland data point WUPB001e\_w facing east
Project/Site: SERP	City/C	County: Upshur	Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: W	V Sampling Point: WUPB001_u
Investigator(s): TP	Secti	on, Township, Range: <u>No PLSS in th</u>	nis Area
Landform (hillslope, terrace, etc.): hills	lope Local rel	ief (concave, convex, none): <u>none</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: 38.98445929	Long: <u>-80.284331</u>	Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loar	n, 8 to 15 percent slopes	NWI c	lassification: None
Are climatic / hydrologic conditions on	the site typical for this time of year?	∕es No (If no, expla	ain in Remarks.)
Are Vegetation, Soil, o	r Hydrology significantly distu	bed? Are "Normal Circumsta	nces" present? Yes 🗹 No
Are Vegetation, Soil, o	r Hydrology naturally problem	atic? (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	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	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	bils (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 assillant friggs)     Yes No      Image: Constraint frigge	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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective	Wetland Hydrology Present? Yes No tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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 tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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:	Wetland Hydrology Present? Yes No tions), if available:
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:	Wetland Hydrology Present? Yes No tions), if available:
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 tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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:

Sampling Point: WUPB001\_u

	•	Absolute	Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size:	30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Spacing
1					That Are OBL_EACW_or EAC· 0 (A)
·· <u> </u>			·		
					Total Number of Dominant
3				<u> </u>	Species Across All Strata: (B)
4			<u> </u>		Demonst of Deminerat Creation
5.					That Are OBL EACW or EAC: 0 (A/B)
6					
7					Prevalence Index worksheet:
7		0			Total % Cover of: Multiply by:
			= Total Cove	r	
	50% of total cover: 0	20% of	f total cover:	0	
Sapling/Shrub Stratum (Plot si	ze:)				FACW species $x = 0$
1.					FAC species x 3 =
2					FACU species $\frac{75}{x 4} = \frac{300}{x 4}$
2					UPL species $0$ x 5 = $0$
3				<u> </u>	$\frac{75}{75}$
4			·		Column Totals: (A) (B)
5					Prevalence Index - P/A - 4
6.					
7			·		Hydrophytic Vegetation Indicators:
/·			·		1 - Rapid Test for Hydrophytic Vegetation
8			·		2 - Dominance Test is >50%
9					3 - Prevalence Index is < 3.01
		0	= Total Cove	r	4. Merchelesiael Adeptations <sup>1</sup> (Dravide supporting
	50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size:	5				data in Remarks or on a separate sheet)
Dactylis glomerata	/	35	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Phloum protonoo		20	<u> </u>		
2. Phileum praterise		30	res	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Trifolium pratense		10	No	FACU	be present, unless disturbed or problematic.
4.					Definitions of Four Vegetation Strate:
5					Deminions of Four Vegetation Strata.
0			·		<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					Oralla (Ohmah - Missila da alta da sushalla a isan hara
9.					<b>Sapling/Shrub</b> – Woody plants, excluding vines, less
10			·		m) tall
10			·		
11		75	- <u> </u>	······	Herb – All herbaceous (non-woody) plants, regardless
		/5	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 37.5	20% of	f total cover:	15	Woody vine All woody vince greater than 2.29 ft in
Woody Vine Stratum (Plot size	e: <u>30</u> )				height
1					Tolgitti
··					
2			·		
3			·	<u> </u>	
4					Hydrophytic
5.					Vegetation
		0	- Total Cove	r	Present? Yes No
	EO9/ of total aquar:	20% of		0	
		20% 01	total cover.		
Remarks: (Include photo numb	pers here or on a separate s	sheet.)			

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the in	ndicator	or confirm	the absence of ir	dicato	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100					SCL			
							<u> </u>			
							<u> </u>			
							<u> </u>			
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pc	ore Lini	ng, M=Matrix	
Hydric Soil	Indicators:						Indicators	for Pr	oblematic H	ydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	e (S7)			2 cm I	Muck (A	10) <b>(MLRA</b> '	147)
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147,	148) Coast	Prairie	Redox (A16)	1
Black H	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(ML	.RA 14	7, 148)	
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Piedm	ont Flo	odplain Soils	(F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(ML	.RA 13	6, 147)	
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F6	5)		Very S	Shallow	Dark Surface	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dai	k Surface	(F7)		Other	(Explai	n in Remarks	5)
Thick D	ark Surface (A12)		Redox Depre	essions (F8	5) (F40) (1					
Sandy r	VIUCKY IVIINERAI (S1) (L	RR N,	Iron-Iviangan	ese Masse	s (F12) (	LRR N,				
	A 147, 148)		WILRA 13	0) (512) (1		6 400)	<sup>3</sup> Indianta	ro of h	draphyticyce	actation and
Sandy C	Bieyeu Matrix (54)		Unblic Suna	ice (F13) <b>(</b> 1 adalain Sa		0, 122) /MI DA 44		is oi ny	arophytic ve	present
Sanuy i	d Matrix (S6)		Pleumont Pic	Antorial (E2	01) <b>(MI P</b>	(IVIERA 14) A 197 1/7		dicturb	ed or problem	present,
Sinpped	Laver (if observed):					A 127, 147		uistuib		
Turney	Layer (il Observed).									
iype:										
Depth (in	iches):						Hydric Soil Pres	sent?	Yes	NO
Remarks:										



**Photo 1** Upland data point WUPB001\_u facing west



Photo 2 Upland data point WUPB001\_u facing north

Project/Site: SERP	City/Coun	ty: Upshur	_ Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB002e_w
Investigator(s): TP	Section, 1	Fownship, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): depressio	n Local relief (o	concave, convex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.98189533</u>	Long: <u>-80.27958277</u>	Datum: WGS 1984
Soil Map Unit Name: Tygart silt Ioam		NWI classifi	cation: None
Are climatic / hydrologic conditions on the sit	e typical for this time of year? Yes _	✓ No (If no, explain in F	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 – Attac	h site map showing sampli	ng point locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         ✓         No           Yes         ✓         No           Yes         ✓         No	Is the Sampled Area within a Wetland?	Yes 🥢 No
Remarks: depressional area in hayfield, clay is p	perching water table		
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>Water Fauna (B13)</li> </ul>	Sparsely Vegetated Concave Surface (B8)     ✓     Drainage Patterns (B10)     Moss Trim Lines (B16)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Stunted or Stressed Plants (D1)     Geomorphic Position (D2)     Shallow Aquitard (D3)     Microtopographic Relief (D4)     ✓ 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 <u>V</u> No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks:	tions), if available:

Sampling Point: WUPB002e\_w

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminerat Creasing
1				Number of Dominant Species $3 \qquad (A)$
_ I	·			
2	·		<u> </u>	Total Number of Dominant
3				Species Across All Strata: 3 (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 Covo	-	Total % Cover of: Multiply by:
			0	OBL species $45 \times 1 = 45$
50% of total cover:	20% of	total cover:		75 u.0 150
Sapling/Shrub Stratum (Plot size: 13 )				FACW species $x_2 = 0$
1.				FAC species x 3 =
2	-			FACU species $0   x 4 = 0$
Z	·			1 IPI species $0$ x 5 $ 0$
3	·			120 x 5 =
4.				Column Totals: (A) (B)
5				(
0	·		·······	Prevalence Index = B/A = 1.62
б	·			Hydrophytic Vegetation Indicators:
7				I Panid Toot for Hydrophytic Versitation
8				
0				2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is $\leq 3.0^1$
	0	= Total Cove	r _	
50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size: 5 )		_		data in Remarks or on a separate sheet)
Eleocharis intermedia	45	Vaa		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	+5	res	FACW	
2. Carex lupulina	30	Yes	OBL	1 - Personal Charles - Personal and the device for an example
3. Juncus effusus	30	Yes	FACW	Indicators of hydric soil and wetland hydrology must
Carex vulpinoidea	15	No	OBL	be present, unless disturbed of problematic.
4	·			Definitions of Four Vegetation Strata:
5	·		<u> </u>	Tree Meady plants evaluation visco 2 in (7.0 ers) or
6				Tree – woody plants, excluding vines, 3 in. (7.6 cm) of
7				height
·				noight.
8	·		<u> </u>	Sapling/Shrub – Woody plants, excluding vines, less
9	·			than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11	-			
'''	120			Herb – All herbaceous (non-woody) plants, regardless
	120	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 60	20% of	total cover:	24	Weedwaine All weedwaines greater then 2.20 ft in
Woody Vine Stratum (Plot size: 30)				boight
,				
<sup>1</sup>				
2				
3.				
4				
-				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes <u>*</u> No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a senarate s	shoot )			
Remarks. (include proto numbers here of on a separate s	sileet.)			

Oppinist (inches)       Color (molst)       % b       Color (molst)       % b       Type       Loc <sup>2</sup> Texture       Remarks         3-12       10 YR 4/3       100       00       5       C       PL       CL         3-12       10 YR 4/2       95       10 YR 4/6       5       C       PL       CL	Depth	Matrix		Pedo	v Foaturo	e			,
O-3         10YR4/3         100         ScL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         CL           3-12         10 YR 4/2         95         10YR 4/6         5         C         PL         0           101         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	(inches)	Color (moist)	%	Color (moist)	<u>x i eature</u> %	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
3-12       10 YR 4/2       95       10YR 4/6       5       C       PL       CL	0-3	10YR4/3	100					SCL	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histics (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147, 148)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       (MLRA 147, 148)         Hydrig Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19)         Stratified Layers (A5)       ✓ 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)       Very Shallow Dark Surface (TF12)         Sandy Mucky Mineral (S1) (LRR N,       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetand hydrology must be present, C51         Sandy Gleyed Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present? Yes No       No         Type:       Dept       Remarks:       No       Remarks:	3-12	10 YR 4/2	95	10YR 4/6	5	С	PL	CL	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)         Histosol (A1)       Dark Surface (S9) (MLRA 147, 148)         Histosol (A1)       Dark Surface (S9) (MLRA 147, 148)         Gramma (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)         Hydric Soil Indicators:       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)         Hydrigen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Barlow Dark Surface (A11)       Depleted Dark Surface (F7)         Depleted Barlow Dark Surface (A12)       Redox Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 135, 122)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 147, 148)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 147, 148)         Sandy Redox (S5)       Red Parent Material (F21) (MLRA 127, 147)         Sandy Redox (S5)       Red Parent Material (F21) (MLRA 127, 147)         Sandy Redox (S6)       Red Parent Material (F21) (MLRA 127, 147)         Stripped Matrix (S4)       Umbric Surface (F13) (MLRA 127, 147) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·<u> </u></td> <td></td>								· <u> </u>	
Image: Solution in the second stress of t									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.          Hydric Soil Indicators:           Indicators for Problematic Hydric Soils          Histosol (A1)          Dark Surface (S7)           2 cm Muck (A10) (MLRA 147)          Black Histic (A3)          Thin Dark Surface (S8) (MLRA 147, 148)           Coast Prairie Redox (A16)          Hydrogen Sulfide (A4)          Loamy Gleyed Matrix (F2)           Piedmont Floodplain Soils (F19)          Stratified Layers (A5)          ✓ Depleted Matrix (F3)           (MLRA 147, 148)          Depleted Below Dark Surface (A11)        Depleted Matrix (F2)           Piedmont Floodplain Soils (F19)          Thick Dark Surface (A12)           Redox Dark Surface (F7)           Other (Explain in Remarks)          Sandy Mucky Mineral (S1) (LRR N,           Iron-Manganese Masses (F12) (ILR N,           Other (Explain in Remarks)          Sandy Gleyed Matrix (S4)           Umbric Surface (F13) (MLRA 126, 122) <sup>3</sup> Indicators of hydrophytic vegetation and         wetland hydrology must be present,         unless disturbed or problematic.          Sandy Gleyed Matrix (S6)        Red Parent Material (F21) (MLRA 127, 147)           wetland hydrology must be present,									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histic Epipedon (A2)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147, 148)         Histic Epipedon (A2)       Polyvalue Below Surface (S9) (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-Marganese Masses (F12) (LRR N,         Sandy Gleyed Matrix (S6)       Piedmont Floodplain Soils (F19) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,         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.			·						
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histosol (A2)       Polyvalue Below Surface (S9) (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 (S1)       Iron-Manganese Masses (F12) (LRR N,       MLRA 147, 148)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,         Sardy Gleyed Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Pelpeth (inches):       No         Type:       Depth (inches):       Hydric Soil Present? Yes No       N									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil 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)       (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 Dapressions (F8)       Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric 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)       Coast Prairie Redox (A16)         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)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Depressions (F8)       Sandy Mucky Mineral (S1) (LRR N,       Inon-Manganese Masses (F12) (LRR N,         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16)         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 (F6)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       MLRA 147, 148)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:									
Hydric 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)       Coast Prairie Redox (A16)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       WLRA 136, 147)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       Indicators of hydrophytic vegetation and wetland hydrology must be present,         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Remarks:       Merce Soil Present? Yes No       No	<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	l=Reduced Matrix, MS	S=Masked	d Sand Gra	ains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
	Hydric Soil	Indicators:						Indicate	ors for Problematic Hydric So
	Histoso	l (A1)		Dark Surface	(S7)			2 cr	m Muck (A10) <b>(MLRA 147)</b>
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)	Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ice (S8) <b>(M</b>	ILRA 147,	148) <u>Coa</u>	ast Prairie Redox (A16)
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)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       ³Indicators of hydrophytic vegetation and wetland hydrology must be present,         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):	Black H	istic (A3)		Thin Dark Su	rface (S9	) <b>(MLRA 1</b>	47, 148)	(	MLRA 147, 148)
	Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		Pie	dmont Floodplain Soils (F19)
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,         MLRA 147, 148)       MLRA 136)       MLRA 136,         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,         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.         Type:	<u>Stratifie</u>	d Layers (A5)		Depleted Mar	trix (F3)			(	MLRA 136, 147)
Depleted Below Dark Surface (A11)     Depleted Dark Surface (F7)     Other (Explain in Remarks)     Redox Depressions (F8)     Sandy Mucky Mineral (S1) (LRR N,     MLRA 147, 148)     MLRA 147, 148)     MLRA 136)     Sandy Gleyed Matrix (S4)     Depleted Dark Surface (F13) (MLRA 136, 122)     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:     Depth (inches):     Mere Matrix     Remarks:	2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	=6)		Ver	y Shallow Dark Surface (TF12)
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3 Indicators of hydrophytic vegetation and Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.          Restrictive Layer (if observed):	Deplete	d Below Dark Surface	e (A11)	Depleted Dar	k Surface	e (F7)		Oth	er (Explain in Remarks)
	Thick D	ark Surface (A12)		Redox Depre	ssions (F	8)			
MLRA 147, 148)       MLRA 136)	Sandy I	Mucky Mineral (S1) (L	_RR N,	Iron-Mangan	ese Mass	es (F12) <b>(I</b>	_RR N,		
	MLR	A 147, 148)		MLRA 13	6)				
	Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	6, 122)	<sup>3</sup> Indica	ators of hydrophytic vegetation a
Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Sandy I	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetla	and hydrology must be present,
Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:	Strippe	d Matrix (S6)		Red Parent N	Aaterial (F	21) (MLR	A 127, 147	') unles	ss disturbed or problematic.
Type:	Restrictive	Layer (if observed):							
Depth (inches):     Hydric Soil Present?     Yes     V       Remarks:	Туре:								
Remarks:	Depth (ir	iches):						Hydric Soil P	resent? Yes 🔽 No _
	Remarks:								



Photo 1 Wetland data point WUPB002e\_w facing east



Photo 2 Wetland data point WUPB002e\_w facing south

Project/Site: SERP	City/County: Ups	hur	Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB002_u
Investigator(s): TP	Section, Townshi	p, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave	, convex, none): <u>none</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	8.98202892	Long: <u>-80.27955645</u>	Datum: WGS 1984
Soil Map Unit Name: Tygart silt loam		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_naturally problematic?	(If 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	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	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	bils (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 Dresent2 Veg No Depth (inches):	
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 capillant fringe)     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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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Sampling Point: WUPB002\_u

	Absolute	Dominant	ndicator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
,,,				That Are OBL EACW or EAC: $0$ (A)
	· · · · · · · · · · · · · · · · · · ·			
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				
5				Percent of Dominant Species
-				That Are OBL, FACW, or FAC: (A/B)
6				Provalence Index worksheet:
7				
	0	= Total Cove	er	Total % Cover of: Multiply by:
50% of total cover	. 0 20% 0	f total cover:	0	OBL species x 1 =0
Oraclica (Ohrach Ohrachan (Dhatacina) 15	20700			FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size:	)			$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1				FAC species $x_3 = 240$
2.				FACU species $x 4 = {340}$
3				UPL species0 x 5 =0
				Column Totals: 85 (A) 340 (B)
4				
5				Prevalence Index $= R/\Delta = 4$
6.				
7				Hydrophytic Vegetation Indicators:
· ·				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	0	- Total Cove	r	3 - Prevalence Index is ≤3.0°
E00/ of total action	0 200/ 0	f total agricer	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover	20% 0	r total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Broblemetic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
1. Dactylis glomerata	35	Yes	FACU	
2 Phleum pratense	30	Yes	FACU	
2 Achillea millefolium	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Trifelium protonos				be present, unless disturbed or problematic.
		N		
4	10	No	FACU	Definitions of Four Vegetation Strata:
5		No	FACU	Definitions of Four Vegetation Strata:
56		No	FACU	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		No	FACU	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
4.		No	FACU	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.
4.			FACU	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.
4		No		<ul> <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)</li> </ul>
4.				<ul> <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> </ul>
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4.		= Total Cover:	FACU FACU	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.		No     No     Total Cover:     Total Cover:     Total Cover:     Total Cover:	FACU FACU 17 17 17 17 0	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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Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the ir	ndicator	or confirm	the absence of in	dicator	·s.)	
Depth	Matrix		Redo	x Features	;					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks	
0-8	10YR 3/4	100					SCL			
8-12	7.5YR 4/4	100					SICL			
							· · · · ·			
							·			<u> </u>
						. <u> </u>	·			
							·			<u> </u>
							·			
	oncentration D-Denl	etion RM-R	aduced Matrix M	S-Maskod	Sand Gr	aine	<sup>2</sup> Location: PL-Po	ro Linin	a M-Matrix	
Hvdric Soil	Indicators:					aii 13.	Indicators	for Pro	blematic Hvo	tric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2 cm N	/uck (A	10) (MI RA 14	7)
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147.	148) Coast	Prairie I	Redox (A16)	• ,
Black H	istic (A3)		Thin Dark Su	Irface (S9)	(MLRA 1	47, 148)	(ML	RA 147	<b>, 148</b> )	
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	=2)	. ,	Piedm	ont Floo	odplain Soils (I	F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(ML	RA 136	6, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F6	6)		Very Shallow Dark Surface (TF12)			
Deplete	d Below Dark Surface	e (A11)	Depleted Dar	(F7)		Other	(Explair	n in Remarks)		
Thick D	ark Surface (A12)		Redox Depre	essions (F8	3)					
Sandy N	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,				
MLRA	A 147, 148)		MLRA 13	6) 		C 400\	31			totion and
Sandy C	Dedex (SE)		Umbric Surra	ice (F13) <b>(</b> I		0,122) (MI DA 14)		rs of nyo	arophytic vege	
Stripper	Matrix (S6)		Red Parent N	Asterial (F2	21) (MI R	Δ 127 147		listurbo	d or problema	tic
Restrictive	l aver (if observed):					~ 127, 147		listuibe		
Type										
Dopth (in	abaa);		_				Hydria Sail Brag	ont?	Vac	
	ches).		_				Hydric Soli Fles	entr	165	NO
Remarks:										



Photo 1 Wetland data point WUPB002\_u facing northeast



Photo 2 Wetland data point WUPB002\_u facing northwest

Project/Site: Atlantic Coast Pipeline	City/County: Upshu	Ir County	Sampling Date: 7/29/2016
Applicant/Owner: Dominion		State: WV	_ Sampling Point: wupe009e_w
Investigator(s): CG, AS	Section, Township,	Range: No PLSS in this area	
Landform (hillslope, terrace, etc.): roadside	Local relief (concave, d	convex, none): <u>none</u>	Slope (%): <u>1</u>
Subregion (LRR or MLRA): N Lat: 38.9	9391525	Long: <u>-80.26126298</u>	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classifica	ation: PEM
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes 🔽 N	o (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology 🗾 s	ignificantly disturbed? A	re "Normal Circumstances" pr	resent? Yes No _
Are Vegetation, Soil, or Hydrology n	aturally problematic? (I	f needed, 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 <u>✓</u> Yes <u>✓</u> Yes <u>✓</u>	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	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 _          Saturation Present?       Yes _          Includes capillary fringe)       Yes _	Wetland Hydrology Present? Yes <u></u>
Surface Water Present?       Yes       No       Depth (inches):       12         Water Table Present?       Yes	Wetland Hydrology Present? Yes <u>V</u> No
Surface Water Present?       Yes No Depth (inches):         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 inspec	Wetland Hydrology Present? Yes <u>V</u> 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)       No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>V</u> 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)       No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>Yes</u> 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)       No Depth (inches):       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec       Remarks:	Wetland Hydrology Present? Yes <u>V</u> 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)       Mo Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>V</u> 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)       Mo Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>V</u> 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)       No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>Yes</u> No tions), if available:
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes          Saturation Present?       Yes          Vater Table Control (includes capillary fringe)       No Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:	Wetland Hydrology Present? Yes <u>V</u> 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:       Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes        No Depth (inches):         Saturation Present?       Yes        No Depth (inches):         Saturation Present?       Yes        No         Includes capillary fringe)       Depth (inches):       0         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec       Remarks:	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:

Sampling Point: wupe009e\_w

	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminent Species
1 none	0			That Are OBL EACW or EAC: $2$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B
6				Prevalence Index worksheet:
7				
	0	= Total Cover	r	I otal % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species $60$ x 1 = $60$
Conling/Chrub Stratum (Dictorize) 15				FACW species $45$ x 2 = $90$
	0			$5 \times 3 = 15$
1. <u>1011</u>				$\begin{array}{c} \text{FAC species} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
2				FACU species $x 4 = $
3.				UPL species x 5 =
4				Column Totals: 110 (A) 165 (B)
4				
5				Prevalence Index = $B/A = 1.5$
6				Hydrophytic Vogetation Indicators
7.				nyurophytic vegetation indicators:
··				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				$\checkmark$ 3 - Prevalence Index is <3 0 <sup>1</sup>
	0	= Total Cover	r	
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations' (Provide supportin
Llorh Strotum (Diot size: 5				data in Remarks or on a separate sheet)
Sciences atrovirens	40	Vee		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Scripus autovitens	40	res	OBL	
2. Phalaris arundinacea	40	Yes	FACW	
3. Typha latifolia	10	No	OBL	Indicators of hydric soil and wetland hydrology must
Asclepias incarnata	10	No	OBL	be present, unless disturbed of problematic.
4. Rumey crispus	5			Definitions of Four Vegetation Strata:
5. Kullex clispus		INO	FAC	Tree March plants such dis puisses 2 is (7.0 sm) s
6. Scirpus cyperinus	5	No	FACW	nee – woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH) regardless of
7				height
··				noight.
8				Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	110	Total Cava		of size, and woody plants less than 3.28 ft tall
50% of total occurry 55	000/ -6		22	of size, and woody plants less than 5.20 it tall.
50% of total cover:	20% of	total cover:	LL	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 50 )				height.
1. none	0			
2				
2				
٥				
4				Hydrophytic
5				Vegetation
	0	= Total Cover	r	Present? Yes V No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate si	neet.)			

Depth (inches)       Matrix Color (moist)       Redox Features Color (moist)       Type1       Loc2       Texture       Remarks         0-16       10YR 5/2       90       10YR 3/6       10       C       PL/M       SiC
(inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-16       10YR 5/2       90       10YR 3/6       10       C       PL/M       SIC       Image: Sic
0-16       10YR 5/2       90       10YR 3/6       10       C       PL/M       SIC
Image: Stratified Layers (A5)       Image: Stratified Layers (A5)         Image: Stratified Layers (A5)       Image:
Image: Stratified Layers (A5)       Image: Stratified Layers (A5)         Image: Stratified Layers (A5)       Image: Stratified Layers (A5)         Image: Stratified Layers (A10) (LRR N)       Redox Dark Surface (F6)
Image:
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         — Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         — Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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)       V       Depleted Matrix (F3)       (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Very Shallow Dark Surface (TF12)
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :
Stratified Layers (A5)       ✓       Depleted Matrix (F3)       (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Very Shallow Dark Surface (TF12)
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,
MLRA 147, 148) MLRA 136)
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophytic vegetation and
Sandy Redox (55) Pleamont Floodplain Solis (F19) (MLRA 148) wetland hydrology must be present,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Unless disturbed of problematic.
restrictive Layer (if observed):
Type:
Depth (inches): No
Remarks:



Wetland data point wupe009e\_w facing south



Wetland data point wupe009e\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Upst	hur County	Sampling Date: 7/29/2016
Applicant/Owner: Dominion		State: WV	Sampling Point: wupe009_u
Investigator(s): CG, AS	Section, Townshi	p, Range: <u>No PLSS in this area</u>	
Landform (hillslope, terrace, etc.): road	Local relief (concave	, convex, none): <u>convex</u>	Slope (%): <u>1</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.993</u>	94835	Long: <u>-80.26132333</u>	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classific	ation: UPL
Are climatic / hydrologic conditions on the site typical for this til	me of year? Yes	No (If no, explain in Re	emarks.)
Are Vegetation 🔽 , Soil 🔽 , or Hydrology 🖌 sigr	nificantly disturbed?	Are "Normal Circumstances" p	resent? Yes No _
Are Vegetation, Soil, or Hydrology natu	urally problematic?	(If needed, explain any answer	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:							

	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	
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): <u>(includes capillary fringe</u> )	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	Wetland Hydrology Present?       Yes       No         ctions), if available:

Sampling Point: wupe009\_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1 none	0			That Are OBL_FACW or FAC <sup>0</sup> (A)
Z				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Demonst of Deminent Creation
5.				That Are OBL EACW or EAC: 0 (A/B)
6				
-			······	Prevalence Index worksheet:
/			·	Total % Cover of Multiply by
	0	= Total Cove	er	
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 =
				FACU species x 4 =
Z			<u> </u>	
3				
4				Column Totals: (A) (B)
5.				
6				Prevalence Index = B/A =
			·	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	0	- Total Cove		3 - Prevalence Index is ≤3.0°
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover.	20 /0 01	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. none	0		. <u> </u>	
2				1
3				'Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4			<u> </u>	Definitions of Four Vegetation Strata:
5			. <u> </u>	Tree Mondy plants evaluating vince 2 in (7.6 cm) or
6				more in diameter at breast beight (DBH), regardless of
7.				height.
8				
0				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All 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	
Weady Vine Stratum (Dist size) 30	20/00	total 00101.		Woody vine – All woody vines greater than 3.28 ft in
woody vine Stratum (Piot size)	0			height.
1. <u></u>	0			
2				
3.				
				Hydrophytic
5			·	Vegetation
	0	= Total Cove	er	Present? res <u>No</u>
50% of total cover:0	20% of	total cover:	0	
No veg gravel road	neet.)			

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 <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
									· · · · · · · · · · · · · · · · · · ·
				<u> </u>				·	
				<u> </u>					
								· · · · · · · · · · · · · · · · · · ·	
								·	
·						·			
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked S	Sand Gra	iins.	<sup>2</sup> Location: F	PL=Pore Linir	ng, M=Matrix.
Hydric Soil	Indicators:						Indic	ators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A	\10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(M</b>	LRA 147,	148) (	Coast Prairie	Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9) <b>(</b>	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) <b>(LRR N)</b>		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) <b>(L</b>	.RR N,			
	A 147, 148)		MILRA 13	b)		400	31	diantana af hu	
Sandy G	bieyed Matrix (54)		Uniblic Suna	ice (F13) <b>(IVI</b> 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) <b>(MI D</b>	(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 wupe009\_u facing south



Upland data point wupe009\_u facing north

Project/Site: SERP	City/County: Upshur		_ Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB003e_w
Investigator(s): TP	Section, Township, Ra	ange: <u>No PLSS in this Are</u>	ea
Landform (hillslope, terrace, etc.): depression	Local relief (concave, cor	nvex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 3	8.98095533 Lo	ng: <u>-80.27631607</u>	Datum: WGS 1984
Soil Map Unit Name: <u>Tygart silt loam</u>		NWI classifi	ication: None
Are climatic / hydrologic conditions on the site typical for	his time of year? Yes No _	(If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	_significantly disturbed? Are	"Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If n	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point	locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	V V V	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						
depressional area in hayfield						

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>Presence of Reduced Iron (C4)</li> <li>Sediment Deposits (B2)</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>V</u> No Depth (inches): 10	
Saturation Present? Yes <u>Yes</u> No Depth (inches): 6 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	

Sampling Point: WUPB003e\_w

, ,	Absoluto	Dominant lu	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminent Oracian
1				That Are OBL_EACW_or EAC: 3 (A)
2		·		Total Number of Dominant
3		·		Species Across All Strata:3 (B)
4				Demonstrat Demoiser
5.				That Aro OBL EACW or EAC: 100 (A/B)
6				
		·		Prevalence Index worksheet:
7	0	·		Total % Cover of: Multiply by:
		= Total Cove	r	$\frac{1}{50} = \frac{50}{50} = 1000$
50% of total cover:0	20% of	f total cover:	0	OBL species $\frac{300}{75}$ $x_1 = \frac{300}{150}$
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $73$ x 2 = $150$
1.				FAC species x 3 =0
2		·	······································	FACU species $0   x 4 = 0$
Z		·		$\frac{1}{1}$
3				125 (1) $200$ (2)
4				Column Totals: (A) (B)
5		<u>.                                    </u>		Provolonce  Index = P/A =
6.				Frevalence index = B/A = 1.0
7				Hydrophytic Vegetation Indicators:
·		·		1 - Rapid Test for Hydrophytic Vegetation
8			. <u> </u>	✓ 2 - Dominance Test is >50%
9		. <u> </u>		$\checkmark$ 3 - Prevalence Index is <3 0 <sup>1</sup>
	0	= Total Cove	r	Merrie la ricel Adentationa <sup>1</sup> (Dravide even artice)
50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations" (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
<i>Fleocharis intermedia</i>	45	Ves	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1		<u> </u>		
2. Juncus effusus	30	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex lupulina	30	Yes	OBL	be present, unless disturbed or problematic.
<sub>4.</sub> Carex vulpinoidea	20	No	OBL	Definitions of Four Verstation Strate:
5				Demittons of Four vegetation Strata:
		·		<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				
9.				<b>Sapling/Shrub</b> – Woody plants, excluding vines, less
10		·		m) tall.
10		·		
11	405			Herb – All herbaceous (non-woody) plants, regardless
	125	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 62.5	20% of	f total cover:	25	Meedy vine All woods vince greater than 2.20 ft in
Woody Vine Stratum (Plot size: 30 )				height
1				noight.
·· <u> </u>			<u> </u>	
<u> </u>		·		
3		·		
4		. <u> </u>		Hydrophytic
5.				Vegetation
	0	- Total Cove	r	Present? Yes <u>No</u>
E0% of total cover:	20% of		0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Depth	Matrix		Redo	ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR4/1	95	10YR 4/6	5	C	PL	SCL	
<sup>1</sup> Type: C=C		etion RM	1=Reduced Matrix M	S=Masker	I Sand Gra	ains	<sup>2</sup> Location: PL=	Pore Lining M=Matrix
Hvdric Soil	Indicators:			0-maonot			Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
<ul> <li>Histoso</li> <li>Histic E</li> <li>Black H</li> <li>Hydrogo</li> <li>Stratifie</li> <li>2 cm M</li> <li>Deplete</li> </ul>	l (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) uck (A10) <b>(LRR N)</b> ed Below Dark Surface	: (A11)	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye ✔ Depleted Ma Redox Dark Depleted Da	e (S7) elow Surfa urface (S9 ed Matrix ( atrix (F3) Surface (F rk Surface)	ce (S8) <b>(N</b> ) <b>(MLRA 1</b> F2) <sup>5</sup> 6) 4 (F7)	ILRA 147, 47, 148)	2 cm 148) Coas (N Pied (N Very Othe	Muck (A10) <b>(MLRA 147)</b> st Prairie Redox (A16) <b>MLRA 147, 148)</b> Imont Floodplain Soils (F19) <b>MLRA 136, 147)</b> Y Shallow Dark Surface (TF12) er (Explain in Remarks)
Thick D	ark Surface (A12) Mucky Mineral (S1) <b>(L</b>	RR N,	Redox Depr Iron-Mangar	essions (F nese Mass	8) es (F12) <b>(</b> I	LRR N,		
MLR Sandy ( Sandy F Sandy F	<b>A 147, 148)</b> Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		MLRA 13 Umbric Surfa Piedmont Fl Red Parent	<b>66)</b> ace (F13) bodplain S Material (F	(MLRA 13 oils (F19)	6, 122) (MLRA 14 A 127, 147	<sup>3</sup> Indica <b>I8)</b> wetlar 7) unless	tors of hydrophytic vegetation and nd hydrology must be present, s disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	nches):						Hydric Soil Pr	esent? Yes 🖌 No



Photo 1 Wetland data point WUPB003e\_w facing north



Photo 2 Wetland data point WUPB003e\_w facing south

Project/Site: SERP	City/County: Upshu	r	_ Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB003_u
Investigator(s): TP	Section, Township,	Range: No PLSS in this Are	ea
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, c	convex, none): <u>none</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.9</u>	0810337 I	_ong: <u>-80.27659397</u>	Datum: WGS 1984
Soil Map Unit Name: Tygart silt loam		NWI classifi	ication: None
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes No	o (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrologysi	ignificantly disturbed? A	re "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology n	aturally problematic? (I	f 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:					

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	bils (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 Dresent2 Veg No Depth (inches):	
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 capillant fringe)     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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)       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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       Remarks:	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)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec         Remarks:       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)       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:       Remarks:	Wetland Hydrology Present? Yes No ✓ tions), if available:
Sufface 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:       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:       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:       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:       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:       Remarks:	Wetland Hydrology Present? Yes No ✓ tions), if available:

Sampling Point: WUPB003\_u

1		Absolute	Dominant I	ndicator	Dominance Test worksheet
Tree Stratum (Plot size:	30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Spagion
1	, ,				That Are OBL EACW or EAC: $0$ (A)
1			·		
2			·	·	Total Number of Dominant
3			<u></u>		Species Across All Strata: 2 (B)
4.					
5					Percent of Dominant Species
<u>.</u>			· · · · · · · · · · · · · · · · · · ·		That Are OBL, FACW, or FAC: (A/B)
6					Provalence Index worksheet:
7					
		0	= Total Cove	r	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	f total cover:	0	OBL species x 1 =0
One line (Ohen had one to see (Dhat ai	15	2070 01			FACW species $0$ x 2 = $0$
Sapling/Shrub Stratum (Plot si	ze:)				$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1					FAC species $x_3 = 240$
2.					FACU species $330$ x 4 = $340$
3					UPL species $0   x 5 = 0$
			- <u> </u>		Column Totals: 85 (A) 340 (B)
4					
5					Prevalence Index - R/A - 4
6.					
7					Hydrophytic Vegetation Indicators:
/·					1 - Rapid Test for Hydrophytic Vegetation
8					2 - Dominance Test is >50%
9.					
		0	- Total Cove	r	3 - Prevalence Index is ≤3.0
		200/ at		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
		20% 0	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	)				Broblematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
1. Dactylis glomerata		35	Yes	FACU	
2 Phleum pratense		30	Yes	FACU	
2 Trifolium pratense		10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Achille a reillafaliure		10			be present, unless disturbed or problematic.
4. Achiliea millefollum		10	INO	FACU	
					Definitions of Four Vegetation Strata:
5					Definitions of Four Vegetation Strata:
5					Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5 6					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
5 6 7			·		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.
5 6 7 8					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
5 6 7 8 9.			·		<ul> <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 (1.1)</li> </ul>
5 6 7 8 9					<ul> <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> </ul>
5 6 7 8 9 10					<ul> <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> </ul>
5 6 7 8 9 10 11					<ul> <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>
5.         6.         7.         8.         9.         10.         11.			= Total Cove		<ul> <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>
5	50% of total cover:42.5		= Total Cove	  r 17	<ul> <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>
5 6 7 8 9 10 11 Woody Vine Stratum (Plot size	50% of total cover: <u>42.5</u>		= Total Cover	r 17	<ul> <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>
5.	50% of total cover: <u>42.5</u> :: <u>30</u> )		= Total Cover:_	r 17	<ul> <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>
5 6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size 1	50% of total cover: <u>42.5</u> 2: <u>30</u> )		= Total Cover:_	r 17	<ul> <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>
5 6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size 1 2	50% of total cover: <u>42.5</u> :: <u>30</u> )		= Total Cover:_	r 17	<ul> <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>
5 6 7 8 9 10 11 <u>Woody Vine Stratum</u> (Plot size 1 2 3	50% of total cover: <u>42.5</u> :: <u>30</u> )		= Total Cove f total cover:_	r 17	<ul> <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>
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4	50% of total cover: <u>42.5</u> :: <u>30</u> )		= Total Cover:_	r 17	<ul> <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>
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> 2: <u>30</u> )		= Total Cover:_	r 17	<ul> <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</li> </ul>
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> :: <u>30</u> )		= Total Cove f total cover:_	r 17	<ul> <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</li> </ul>
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> 30 )	 	= Total Cover:	r 17	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
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> .: <u>30</u> ) 50% of total cover: <u>0</u>		= Total Cover:	r 17 r 0	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
5.	50% of total cover: <u>42.5</u> 30 )	 	= Total Cover:	r 17 r 0	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
5.	50% of total cover: <u>42.5</u> 50% of total cover: <u>42.5</u> 50% of total cover: <u>0</u> 50% of total cover: <u>0</u> pers here or on a separate s	 	= Total Cover:	r 17 r 0	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
5.	50% of total cover: <u>42.5</u> 50% of total cover: <u>0</u> 50% of total cover: <u>0</u> pers here or on a separate s	 	= Total Cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.         Remarks: (Include photo number)	50% of total cover: <u>42.5</u> 30) 50% of total cover: <u>0</u> pers here or on a separate s	 	= Total Cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.         Remarks: (Include photo numb	50% of total cover: <u>42.5</u> 30) 50% of total cover: <u>0</u> 50% of total cover: <u>0</u>	 	= Total Cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.         Remarks: (Include photo numb	50% of total cover: <u>42.5</u> 30 ) 50% of total cover: <u>0</u> bers here or on a separate s	 	= Total Cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.         Remarks: (Include photo numb	50% of total cover: <u>42.5</u> 30) 50% of total cover: <u>0</u> 50% of total cover: <u>0</u>	 	= Total Cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> 30) 50% of total cover: <u>0</u> 50% of total cover: <u>0</u>	 	= Total Cover f total cover:	r 17 r 0	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
5.         6.         7.         8.         9.         10.         11.         2.         3.         4.         5.	50% of total cover: <u>42.5</u> 30) 50% of total cover: <u>0</u> bers here or on a separate s	 	= Total Cover f total cover:	r 17 r 0	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
5	50% of total cover: <u>42.5</u> 30 ) 50% of total cover: <u>0</u> bers here or on a separate s	 	= Total Cover f total cover:	r 17 r 0	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

Profile Des	cription: (Describe t	o the dept	h needed to docur	nent the ir	ndicator	or confirm	n the absenc	e of indicato	ors.)		
Depth	Matrix		Redo	x Features	;						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks		
0-12	10YR 3/3	100					SCL				
	·					<u> </u>					
								_			
						<u> </u>					
	·										
	<u></u>										
1											
	·										
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore Lini	ng, M=Matrix	κ.	
Hydric Soil	Indicators:		· · · ·				Indi	cators for Pr	oblematic H	lydric So	ils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	e (S7)				2 cm Muck (/	(MLRA	147)	
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairie	Redox (A16	5)	
Black H	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)		
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	- -2)			Piedmont Flo	odplain Soil	s (F19)	
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)		
2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)			Very Shallow	Dark Surfac	ce (TF12)	
Deplete	ed Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)			Other (Expla	n in Remark	s)	
Thick D	ark Surface (A12)		Redox Depre	essions (F8	3)						
Sandy I	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,					
MLR	A 147, 148)		MLRA 13	6)							
Sandy	Gleyed Matrix (S4)		Umbric Surfa	ice (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> In	dicators of h	/drophytic ve	egetation a	and
Sandy	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	1 <b>8)</b> w	etland hydro	logy must be	e present,	
Strippe	d Matrix (S6)		Red Parent N	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	<b>7)</b> u	nless disturb	ed or problei	matic.	
Restrictive	Layer (if observed):										
Type:											
Depth (ir	nches):						Hydric So	il Present?	Yes	No	~
Remarks:							-				



Photo 1 Upland data point WUPB003\_u facing north



**Photo 2** Upland data point WUPB003\_u facing west

Project/Site: SERP	City/County: Up	shur	Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB004e_w
Investigator(s): TP	Section, Townsh	ip, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): floodplain	Local relief (concav	e, convex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38	8.97993851	_ Long: <u>-80.27519022</u>	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for th	nis time of year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	o showing sampling p	oint locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u> </u>	Is the Sampled Area within a Wetland?	Yes 🥢 No
Remarks: wetland in floodplain of Brushy Fork.	may contain upland pockets. portion	s of wetland are in a grassed y	ard.

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 Present?       Yes       No       Vo       Depth (inches):       11         Water Table Present?       Yes       Vo       Depth (inches):       11         Saturation Present?       Yes       V       No       Depth (inches):       3         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes <u>V</u> No ions), if available:			
Remarks:				

Sampling Point: WUPB004e\_w

	Abaaluta	Dominant I	ndiantar	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance rest worksneet.
1			Clarad	Number of Dominant Species That Are OBLE FACW or FAC: $2$ (A)
I		·		
2		·		Total Number of Dominant
3		. <u> </u>		Species Across All Strata: 2 (B)
4.				
5		·		Percent of Dominant Species
		·		That Are OBL, FACW, or FAC: (A/B)
6				Brovalanca Index workshoot:
7		. <u> </u>		
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species20 x 1 =20
Conling/Chrub Stratum (Distaire)				FACW species $30$ x 2 = $60$
				$EAC$ spacing $0$ $x_{3} = 0$
1		·		$\begin{array}{c} \text{FAC species} \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} x \\ y \\ 0 \\ \hline \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} x \\ y \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} y \\ y \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} y \\ y \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} y \\ y \\ y \\ 0 \\ \hline \\ \end{array} \\ \begin{array}{c} y \\ y \\ y \\ y \\ \end{array} \\ \begin{array}{c} y \\ y \\ y \\ y \\ \end{array} \\ \begin{array}{c} y \\ y \\ y \\ y \\ y \\ \end{array} \\ \begin{array}{c} y \\ y \\ y \\ y \\ y \\ y \\ \end{array} \\ \begin{array}{c} y \\ y $
2				FACU species $x 4 = 0$
3				UPL species x 5 =0
		·		Column Totals: $50$ (A) $80$ (B)
4		·		
5				Prevalence Index = $B/A = 1.6$
6				
7				Hydrophytic vegetation indicators:
··		·		1 - Rapid Test for Hydrophytic Vegetation
8		·		<ul> <li>2 - Dominance Test is &gt;50%</li> </ul>
9		·		$\checkmark$ 3 - Prevalence Index is <3.0 <sup>1</sup>
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations' (Provide supporting
Llash Otratum (Dist size: 5				data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	20	N/		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Juncus enusus	- 30	Yes	FACW	
2. Carex vulpinoidea	20	Yes	OBL	1
3				'Indicators of hydric soil and wetland hydrology must
4		·		be present, unless disturbed or problematic.
4		·		Definitions of Four Vegetation Strata:
5		·		
6				Iree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				height
··		·		noight.
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				
····	50	Tatal Ora		Herb – All herbaceous (non-woody) plants, regardless
500/ // / 25			r 10	
50% of total cover: <u>25</u>	20% 01	total cover:	10	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				Ĭ
2				
2		·		
3		·		
4		. <u> </u>		Hydrophytic
5.				Vegetation
	0	- Total Covo	r	Present? Yes V No
EQ9/ of total approx	200/ of		0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	10YR4/1	95	10YR 4/6	5	С	PL	SCL			
6-12	10 YR 5/1	80	10 YR 5/8	20	С	М	С			
			,							
1				. <del></del> .			2			
lype: C=C	oncentration, D=Deple	etion, RM	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	Location: PL	=Pore Lining, M=Matrix.		
Hyune Soli	inuicators.						Inuica	tors for Froblematic Hydric Solis .		
Histosol	(A1)		Dark Surface	e (S7)	(0.0) (1.1		2 0	cm Muck (A10) <b>(MLRA 147)</b>		
Histic Ep	bipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(</b> M	LRA 147,	148) <u> </u>	bast Prairie Redox (A16)		
Black Hi	stic (A3)		Thin Dark Su	irface (S9)		47, 148)	<b>D</b> .	(MLRA 147, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Pie	edmont Floodplain Soils (F19)		
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)		
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		Ve	ery Shallow Dark Surface (TF12)		
Depletee	d Below Dark Surface	(A11)	Depleted Dar	rk Surface	(F7)		Ot	her (Explain in Remarks)		
Thick Da	ark Surface (A12)		Redox Depre	essions (F8	3)					
Sandy N	/lucky Mineral (S1) <b>(Lf</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	_RR N,				
MLRA	A 147, 148)		MLRA 13	6)						
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ice (F13) <b>(</b>	MLRA 13	6, <b>122)</b>	<sup>3</sup> India	cators of hydrophytic vegetation and		
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) wetland hydrology must be present,			
Stripped	l Matrix (S6)		Red Parent N	Aaterial (F	21) <b>(MLR</b>	A 127, 147	7) unle	ess disturbed or problematic.		
Restrictive	Layer (if observed):									
Туре:										
Depth (in	ches):						Hydric Soil I	Present? Yes 🔽 No		
Remarks:										



Photo 1 Wetland data point WUPB004e\_w facing south



Photo 2 Wetland data point WUPB004e\_w facing north

Project/Site: SERP	City/County:	Upshur	Sampling Date: <u>6/24/2014</u>		
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB004_u		
Investigator(s): TP	Section, Tow	nship, Range: No PLSS in this Are	ea		
Landform (hillslope, terrace, etc.): hillslope	Local relief (con	cave, convex, none): <u>none</u>	Slope (%): <u>2</u>		
Subregion (LRR or MLRA): N	Lat: <u>38.97814004</u>	Long: <u>-80.27313365</u>	Datum: WGS 1984		
Soil Map Unit Name: Vandalia silt loam, 8 to 15	5 percent slopes	NWI classif	ication: None		
Are climatic / hydrologic conditions on the site t	ypical for this time of year? Yes	No (If no, explain in	Remarks.)		
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No		
Are Vegetation, Soil, or Hydrold	ogy naturally problematic?	(If needed, explain any answ	ers in Remarks.)		
	oite man chewing compling	noint locations 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 Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: please note, upland point taken in a we	Il maintained lav	wn.			

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	.oots (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):					
Water Table Present? Yes No 🖌 Depth (inches):					
Saturation Present? Yes No 🖌 Depth (inches):	Wetland Hydrology Present? Yes No				
(includes capillary fringe)	tiona) if available:				
Describe Recorded Data (stream gauge, monitoring well, aerial protos, previous inspec	lions), il avallable.				
Remarks:					

Sampling Point: WUPB004\_u

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: $0$ (A)
2				
2				Total Number of Dominant
3		·		Species Across All Strata: (B)
4		·	<u> </u>	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6.				
7				Prevalence Index worksheet:
·	0	Tatal Cause		Total % Cover of: Multiply by:
		= I otal Cove	r O	OBL species $0 \times 1 = 0$
50% of total cover:	20% of	total cover:		$\frac{1}{2} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^$
Sapling/Shrub Stratum (Plot size: 13)				$\begin{array}{c} \text{FACW species} \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \\ \hline \\$
1			. <u> </u>	FAC species $400$ x 3 = $400$
2.				FACU species $100$ x 4 = $400$
3				UPL species $0   x 5 = 0$
		·		Column Totals: 100 (A) 400 (B)
4		·		
5				Prevalence Index = $B/A = 4$
6				
7.				nyurophytic vegetation indicators:
0				1 - Rapid Test for Hydrophytic Vegetation
0		·		2 - Dominance Test is >50%
9		·	<u> </u>	3 - Prevalence Index is $\leq 3.0^{1}$
	0	= Total Cove	r	
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
Poa pratensis	90	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Trifolium pratense	10	No	FACU	
2. 1110110111 praterise	10		TACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata
5				Demitions of Four Vegetation Strata.
o		·		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
0		·		more in diameter at breast height (DBH), regardless of
7				height.
8			. <u> </u>	Conting/Charte Manhanta avaluation visual lass
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10		·		
11	400	·		Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50</u>	20% of	total cover:	20	Weederstern All weederstern then 2 00 ft in
Woody Vine Stratum (Plot size: 30 )				beight
1				noight.
··		·		
2		·		
3				
4				Liver and which
5.				Vegetation
	0	Tatal Cava		Present? Yes No
			0	
	20% 01	total cover:	-	
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	or confirm	the absence of ind	licato	rs.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100					SCL			
				<u> </u>			·			
							·			
							. <u></u>			
				·			·			
							·			
				<u> </u>			·			
				<u> </u>						
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked S	Sand Gra	ains.	<sup>2</sup> Location: PL=Pore	e Linir	ng, M=Matrix.	-
Hydric Soil	Indicators:						Indicators f	or Pr	oblematic H	ydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)			2 cm M	uck (A	(10) <b>(MLRA</b> 1	147)
Histic E	pipedon (A2)		Polyvalue Be	low Surface	e (S8) <b>(N</b>	ILRA 147,	148) Coast F	Prairie	Redox (A16)	
Black H	listic (A3)		Thin Dark Su	rface (S9) <b>(</b>	(MLRA 1	47, 148)	(MLF	RA 147	7, 148)	
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)		Piedmo	nt Flo	odplain Soils	(F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(MLF	RA 130	6, 147)	
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F6	5)		Very Sh	allow	Dark Surface	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dai	k Surface (	F7)		Other (E	Explai	n in Remarks	5)
Thick D	ark Surface (A12)		Redox Depre	ssions (F8)	)					
Sandy r	VIUCKY IVIINERAI (S1) (L	RR N,	Iron-Iviangan	ese Masses	s (F12) <b>(</b> I	LRR N,				
	A 147, 148)		WILRA 13	0) aa (F12) <b>(N</b>		6 400)	<sup>3</sup> Indiantar	ofhu	drankutiawa	notation and
Sandy C	Bieyeu Matrix (54)		Unblic Suna	ce (FI3) <b>(IV</b>		0, 122) /MI DA 14			arophytic ve	petation and
Sanuy i	d Matrix (S6)		Pleumont Pic	Astorial (E2)	1) <b>(MI P</b>	(IVIERA 14) A 127 1/7	b) wellahu i	sturbe	ogy musi be	present,
Sinpped	Laver (if observed):					A 127, 147		Sturbe		iatic.
Turney	Layer (il Observed).									
iype:										
Depth (in	icnes):		<u> </u>				Hydric Soil Prese	ent?	res	<u>NO</u>
Remarks:										



Photo 1 Upland data point WUPB004\_u facing north



Photo 2 Upland data point WUPB004\_u facing south
Project/Site: SERP	City/County: Upshur		Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB005e_w
Investigator(s): TP	Section, Township, R	ange: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave, cor	nvex, none): <u>concave</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.97704045</u> Lo	ng: <u>-80.27223208</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin silt loam, 8 to 15 perce	ent 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 I	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If n	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling point	locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	レ レ レ	No No No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Remarks: PEM wetland depression in grassed lawn	I				

	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): <u>1</u>	
4	
Saturation Present? Yes <u>Yes</u> No <u>Depth</u> (inches): <u>1</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>V</u> No
Saturation Present? Yes <u>Ves</u> No Depth (inches): <u>1</u> (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	Wetland Hydrology Present?       Yes       V       No         tions), if available:

Sampling Point: WUPB005e\_w

	Absoluto	- Dominant li	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
,				Number of Dominant Species
<sup>1</sup>		·		
2		·		Total Number of Dominant
3				Species Across All Strata: 2 (B)
				()
-	-	·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	Tatal Ora		Total % Cover of: Multiply by:
		= I otal Cove	r O	OBL species $30 \times 1 - 30$
50% of total cover: 0	20% of	total cover:	0	$\frac{75}{75} = \frac{150}{150}$
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = \frac{100}{2}$
1				FAC species $0   x 3 = 0$
··				FACU species 0 x 4 - 0
2		·		
3				UPL species $x_{5} = \frac{100}{100}$
4				Column Totals: (A) (B)
-		·		
ð		·		Prevalence Index = $B/A = 1.71$
6		·		Hydrophytic Vegetation Indicators:
7.				
				1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Prevelence Index is <2.0 <sup>1</sup>
	0	- Total Cove	r	
E00/ of total cover			0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20% 01	total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Decklamatic Lludeants tic (cretation <sup>1</sup> (Contain)
<sub>1.</sub> Eleocharis intermedia	65	Yes	FACW	Problematic Hydrophytic Vegetation (Explain)
<ul> <li>Carex vulpinoidea</li> </ul>	30	Yes	OBI	
	10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Juncus emusus	10	INO	FACW	be present, unless disturbed or problematic.
4.				Definitions of Four Vegetation Strata
5				Deminions of Four vegetation Strata.
-	-	·		<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				
-		·		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				
	105			Herb – All herbaceous (non-woody) plants, regardless
50.5		= I otal Cove	r 01	or size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of	total cover:	21	Woody vine - All woody vines greater than 3 28 ft in
Woody Vine Stratum (Plot size: 30 )				height
1				
··				
2	-	·		
3				
4				
-		·		Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Bomarka: (Include photo numbero horo er en e concrete a	haat )			
Remarks. (include photo numbers here of on a separate s	neet.)			

(inches) Color (moi 0-12 10YR4/2	st) <u>%</u> 95 ^ 	Color (moist) 0YR 4/6	<u>%</u> 5 	<u>Type<sup>1</sup></u> C	Loc <sup>2</sup> PL	Texture SCL	Remarks	
0-12 10YR4/2	95	0YR 4/6	5	С	PL	SCL		
<sup>1</sup> Type: C=Concentration, E	=Depletion, RM=F	Reduced Matrix, MS	=Masked S	and Gra	ins.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.	
Hydric Soil Indicators:						Indicators	s for Problematic Hydric S	Soils <sup>3</sup> :
Histosol (A1)     Histic Epipedon (A2)     Black Histic (A3)     Hydrogen Sulfide (A4)     Stratified Lavers (A5)		<ul> <li>Dark Surface</li> <li>Polyvalue Bel</li> <li>Thin Dark Sur</li> <li>Loamy Gleyer</li> <li>Depleted Mat</li> </ul>	(S7) ow Surface face (S9) <b>(I</b> d Matrix (F2 rix (F3)	e (S8) <b>(M</b> MLRA 14 2)	LRA 147, 47, 148)	2 cm 148) Coast (MI Piedm (MI	Muck (A10) (MLRA 147) Prairie Redox (A16) -RA 147, 148) nont Floodplain Soils (F19) -RA 136, 147)	
2 cm Muck (A10) <b>(LRR</b> Depleted Below Dark S Thick Dark Surface (A1	<b>N)</b> urface (A11) 2) S1) <b>(I PP N</b>	Redox Dark S Depleted Darl Redox Depres	Surface (F6) k Surface (F ssions (F8)	=7)		Very S Other	Shallow Dark Surface (TF12 (Explain in Remarks)	2)
	51) (LKK N,	MIRA 136	30 Masses	(F12) <b>(E</b>	.nn N,			
Sandy Gleved Matrix (	64)	Umbric Surfac	се (F13) <b>(М</b>	LRA 136	6, 122)	<sup>3</sup> Indicate	ors of hydrophytic vegetation	n and
Sandy Redox (S5)	,	Piedmont Flor	odplain Soil	ls (F19) (	MLRA 14	8) wetland	d hydrology must be presen	nt,
Stripped Matrix (S6)		Red Parent M	laterial (F21	) <b>(MLR</b> 4	A 127, 147	) unless	disturbed or problematic.	
Restrictive Layer (if obser	ved):							
Туре:								
Depth (inches):						Hydric Soil Pre	sent? Yes 🖌 No	



Photo 1 Wetland data point WUPB005e\_w facing east



Photo 2 Wetland data point WUPB005e\_w facing west

Project/Site: SERP	City/County: Ups	hur	Sampling Date: 6/24/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB005_u
Investigator(s): TP	Section, Townsh	ip, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave	e, convex, none): <u>none</u>	Slope (%): <u>2</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	8.97696581	_ Long: <u>-80.27219988</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin silt loam, 8 to 15 percent slop	Des	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes	No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_naturally problematic?	(If needed, explain any answe	ers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	< < <	Is the Sampled Area within a Wetland?	Yes	No	×
Remarks: upland point taken in grassed yard							

#### HYDROLOGY

I

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	bils (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     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 inspection)	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 tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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 tions), if available:
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 tions), if available:
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 tions), if available:
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 tions), if available:
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 tions), if available:
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:       Remarks:	Wetland Hydrology Present? Yes No tions), if available:
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 <u>No</u> tions), if available:

Sampling Point: WUPB005\_u

-	•	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Spacing
1	,				That Are OBL EACW or EAC: $0$ (A)
1			·		
2			·		Total Number of Dominant
3			·		Species Across All Strata: 1 (B)
4.					
5					Percent of Dominant Species
			·		That Are OBL, FACW, or FAC: (A/B)
6			·		Prevalence Index worksheet:
7					
		0	= Total Cove	r	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover	0	OBL species $0   x 1 = 0$
O and the strict of the state o	15	2070 01			EACW species $0 = x^2 = 0$
Sapling/Shrub Stratum (Plot si	ze:)				$\frac{1}{1} = \frac{1}{1} = \frac{1}$
1					FAC species $x_3 = 400$
2.					FACU species $x 4 = $
3					UPL species0 x 5 =0
			·		Column Totals: 100 (A) 400 (B)
4					
5					Provolonco Indox - P/A - 4
6.					
7			·		Hydrophytic Vegetation Indicators:
/·			·		1 - Rapid Test for Hydrophytic Vegetation
8					2 - Dominance Test is >50%
9.					
		0	- Total Cove	r	3 - Prevalence Index is ≤3.0°
	FOW of total approx	200/ at		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	50% of total cover:	20% 0	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	)				Broblematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
1. Poa pratensis		90	Yes	FACU	
2 Trifolium pratense		10	No	FACU	
2			·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3			·		be present, unless disturbed or problematic.
4					Definitions of Four Vegetation Strata:
5					Ũ
6					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
-			·		more in diameter at breast height (DBH), regardless of
7			·		height.
8					Septing/Shrub Weedy plants evaluating 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
		100	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size	. 30 y				Woody vine – All woody vines greater than 3.28 ft in
	,				height.
1					
2					
3			_	_	
0			·		
					Hydrophytic
4			·		
4 5					Vegetation
4 5		0	= Total Cove		Vegetation Present? Yes No
4 5	50% of total cover: 0	0	= Total Cove	r 0	Vegetation Present? Yes <u>No </u> V
4 5	50% of total cover:0	0 20% of	= Total Cove total cover:_	r O	Vegetation Present? Yes <u>No</u>
45	50% of total cover:0	0 20% of sheet.)	= Total Cove	r 0	Vegetation Present? Yes <u>No</u>
45 Remarks: (Include photo numb	50% of total cover:0	20% of	= Total Cove	r 0	Vegetation Present? Yes <u>No</u>
45 Remarks: (Include photo numb	50% of total cover:0	20% of	= Total Cove	r O	Vegetation Present? Yes <u>No</u>
45	50% of total cover:0	20% of	= Total Cove	r O	Vegetation Present? Yes <u>No</u>
45	50% of total cover:0	20% of	= Total Cove	r O	Vegetation Present? Yes <u>No</u>
45	50% of total cover:0	20% of	= Total Cove	r O	Vegetation Present? Yes No <u>V</u>
45	50% of total cover: <u>0</u> pers here or on a separate s	20% of	= Total Cove	r 0	Vegetation Present? Yes No <u>V</u>
45	50% of total cover: <u>0</u> pers here or on a separate s	20% of	= Total Cove	r O	Vegetation Present? Yes No <u>v</u>

Profile Des	cription: (Describe te	o the depth	needed to docum	nent the ir	ndicator	or confirm	the absence o	of indicato	ors.)		
Depth	Matrix		Redo	x Features		0					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks		
0-12	10YR 4/4	100					SCL				
·											
. <u></u>	·										
	·										
·											
	·					·					
	·										
I											
1- 0.0				. <del></del> .			2				
Type: C=C	Concentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	Location: PL=	=Pore Linii	ng, M=Matrix	(.	
Hydric Soli	Indicators:						Indicat	ors for Pr	oblematic F	iyaric Sol	IIS :
Histoso	l (A1)		Dark Surface	(S7)			2 c	m Muck (A	A10) <b>(MLRA</b>	147)	
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	æ (S8) <b>(</b> №	ILRA 147,	148) <u> </u> Coa	ast Prairie	Redox (A16	5)	
Black H	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(	(MLRA 14	7, 148)		
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Pie	edmont Flo	odplain Soil	s (F19)	
Stratifie	d Layers (A5)		Depleted Mar	trix (F3)			(	(MLRA 13	6, 147)		
2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F6	6)		Vei	ry Shallow	Dark Surfac	e (TF12)	
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Oth	ner (Explai	n in Remark	s)	
Thick D	ark Surface (A12)		Redox Depre	essions (F8	5)						
Sandy I	Mucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,					
MLR	A 147, 148)		MLRA 13	6)							
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Indic	ators of hy	/drophytic ve	egetation a	and
Sandy I	Redox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	<b>8)</b> wetla	and hydrol	logy must be	present,	
Strippe	d Matrix (S6)		Red Parent M	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	7) unle	ss disturbe	ed or probler	natic.	
Restrictive	Layer (if observed):										
Туре:											
Depth (ir	iches):						Hvdric Soil P	Present?	Yes	No	~
Remarks:	, <u> </u>						,			_	
Nomaino.											



Photo 1 Wetland data point WUPB005\_u facing east



Photo 2 Wetland data point WUPB005\_u facing south

Project/Site: SERP	City/County: Up	oshur	Sampling Date: 6/24/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA005e_W
Investigator(s): GB, LE	Section, Towns	hip, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): SWALE	Local relief (concav	/e, convex, none): <u>concave</u>	Slope (%): <u>5</u>
Subregion (LRR or MLRA): N Lat: 3	3.97607052	Long: <u>-80.27136063</u>	Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loam, 15 to 25 percent	slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes	No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	o showing sampling p	oint locations, transects	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         Yes         No           Yes         Yes         No           Yes         Yes         No	Is the Sampled Area within a Wetland? Yes <u> ✓</u> No
Remarks: Wetland data point for a saturated PEM	seep wetland in a swale at the t	ase of a steep slope, area is field/lawn

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 V Depth (inches):	
Water Table Present? Yes No 🔽 Depth (inches):	
Saturation Present? Yes No Ver Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
Remarks:	

Sampling Point: WUPA005e\_W

	Absolute	- Dominant li	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
1				That Are OBL EACIAL or EAC: 3 (A)
<sup>1</sup>		·		
2		·		Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
		·		Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
	0	- Total Covo	r	Total % Cover of: Multiply by:
	000/ -4		0	OBL species $40 \times 1 = 40$
	20% 01	total cover:	-	55 $110$
Sapling/Shrub Stratum (Plot size: 10)				FACW species $x_2 = 0$
1.				FAC species $x_3 = 0$
2				FACU species $0   x 4 = 0$
Z		·		1 IPI species $0$ x 5 $ 0$
3				95   150
4				Column Totals: (A) (B)
5				
				Prevalence Index = $B/A = 1.57$
٥		·		Hydrophytic Vegetation Indicators:
7				1 Danid Tast for Hydrophytic Vagetation
8				
o				2 - Dominance Test is >50%
9		·		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	r	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
A Phalaris arundinacea	35	Ves	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex Iupulina	25	Yes	OBL	<sup>1</sup> Indiantors of hydric coll and watered hydrology must
<sub>3.</sub> Juncus effusus	20	Yes	FACW	he present upless disturbed or problematic
Carex lupulina	15	No	OBL	be present, unless disturbed of problematic.
4				Definitions of Four Vegetation Strata:
5		·		Tree Maadu plante quebuling vince 2 in (7.0 em) en
6				nee – woody plants, excluding vines, 3 in. (7.6 cm) or
7				height
				noight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
11	05	·		Herb – All herbaceous (non-woody) plants, regardless
	90	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:	19	Woody vine All woody vines greater than 2.28 ft in
Woody Vine Stratum (Plot size: 30)				beight
, ,				
		·		
2				
3				
4				
-				Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Pomarka: (Include photo numbers here or on a concrete s	hoot)			
Remarks. (include photo numbers here of on a separate s	neet.)			
1				

Profile Desc	cription: (Describe to	o the dep	oth needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	<u>s</u> 1	. 2		
(inches)	Color (moist)		Color (moist)		Type'		Texture	Remarks
0-7	7.5YR 4/2	95	7.5YR 4/6	5		PL	SCL	
7-18	7.5YR 4/1	94	7.5YR 4/6	6	С	PL/M	SCL	
							·	
	oncentration D-Denk	ation RM	-Reduced Matrix M	-Masker	d Sand Gr	ains	<sup>2</sup> Location: PI	-Pore Lining M-Matrix
Hvdric Soil	Indicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MI RA 147)
Histic E	pipedon (A2)		Polvvalue Be	low Surfa	ce (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)	, <u> </u>	(MLRA 147, 148)
Hvdroge	en Sulfide (A4)		Loamy Gleve	d Matrix (	(F2)	,,	Pi	iedmont Floodplain Soils (F19)
Stratifie	d Lavers (A5)		<ul> <li>Depleted Mat</li> </ul>	trix (F3)	(/			(MLRA 136, 147)
2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	-6)		V	erv Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	e (F7)		0	ther (Explain in Remarks)
Thick D	ark Surface (A12)	· · ·	Redox Depre	ssions (F	8)			
Sandy M	Aucky Mineral (S1) (LI	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)	<sup>3</sup> Indi	cators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	8) we	tland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent N	Aaterial (F	21) (MLR	A 127, 147	') unl	ess disturbed or problematic.
Restrictive	Layer (if observed):							
Type: N	ONE							
Depth (in	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:							1	
1								



Photo 1 Wetland data point WUPA005e\_w facing east



Photo 2 Wetland data point WUPA005e\_w facing west

Project/Site: SERP	City/County: Upshur		Sampling Date: 6/24/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA005_U
Investigator(s): GB, LE	Section, Township, Ra	ange: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (concave, cor	vex, none): <u>none</u>	Slope (%): <u>20</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	88.97603834 Lor	ng: <u>-80.27136531</u>	Datum: WGS 1984
Soil Map Unit Name: Vandalia silt loam, 15 to 25 percent	t slopes	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes No	(If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology	_significantly disturbed? Are	"Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology	_naturally problematic? (If n	eeded, explain any answ	ers in Remarks.)
		·	• • • • • •

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	マ マ マ	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							
Upland data point taken at toe of slope	just above a sa	aturated F	PEM seep w	etland.			

	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 <u>No</u> Depth (inches): (includes capillary fringe)	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	tions), if available:

Sampling Point: <u>WUPA005\_U</u>

	Abcoluto	Dominant I	adicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Deminent Coopies
1				That Are OBL_EACW_or EAC: 0 (A)
·· <u> </u>		·		
2				Total Number of Dominant
3		·		Species Across All Strata: (B)
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6.				
7				Prevalence Index worksheet:
	0		-	Total % Cover of: Multiply by:
50% of total cover: 0	20%	= Total Cove	0	OBL species $0   x 1 = 0$
	20% 0	total cover.		$EACW$ species $0$ $x_2 = 0$
Sapling/Shrub Stratum (Plot size:)				15 $45$
1		·		$\begin{array}{c c} FAC species \\ \hline 30 \\ \hline 30 \\ \hline 120 \\ \hline 120 \\ \hline \end{array}$
2		. <u> </u>		FACU species $4 = \frac{120}{50}$
3.				UPL species $10 \times 5 = 50$
4				Column Totals: <u>55</u> (A) <u>215</u> (B)
		·		
				Prevalence Index = B/A =3.9
б		·		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		<u> </u>		$\frac{2}{2} = \frac{1}{2} = \frac{1}$
9.				
	0	- Total Cove	r	3 - Prevalence Index is ≤3.0
50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
$\frac{1}{2}$	20700	10101 00Ver		data in Remarks or on a separate sheet)
<u>Pheum alninum</u>	40	Vaa		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	+0			
2. Festuca rubra	20	Yes	FACU	<sup>1</sup> Indicators of hydric soil and watland hydrology must
3. Dichanthelium acuminatum	15	No	FAC	be present, unless disturbed or problematic.
4. Leucanthemum vulgare	10	No	UPL	Definitions of Four Vegetation Strates
5 Potentilla simplex	10	No	FACU	Deminions of Four vegetation Strata.
6		<u> </u>		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
0		<u> </u>		more in diameter at breast height (DBH), regardless of
7		<u> </u>		height.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9		. <u> </u>		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	75	- Total Covo		of size, and woody plants less than 3.28 ft tall
50% of total cover: 47.5	20% of	f total cover:	19	
Weeder Vine Chatter (Plat size: 30	2078.01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1		·		
2		. <u> </u>		
3				
4.				
5				Hydrophytic
···	0	Total Cava		Present? Yes No
E0% of total any arr	200/ at		0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Profile Desc	cription: (Describe to	o the dept	h needed to docur	nent the i	ndicator	or confirm	the absence of	indicator	s.)	
Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-8	10YR 4/3	100					SCL			
8-18	10YR 5/4	100					SCL			
		·		·						
	,	<u> </u>								
		·		·						
		·		. <u> </u>		<u> </u>				
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=l	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=	Pore Lining	g, M=Matrix.	
Hydric Soil	Indicators:						Indicato	rs for Pro	blematic Hy	dric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)			2 cn	n Muck (A1	10) <b>(MLRA 1</b> 4	17)
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) Coa	st Prairie F	Redox (A16)	
Black Hi	stic (A3)		Thin Dark Su	ırface (S9)	(MLRA 1	47, 148)	(M	/LRA 147	, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		Piec	Imont Floo	dplain Soils (	F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			(M	ILRA 136	, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		Very	/ Shallow [	Dark Surface	(TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)		Othe	er (Explain	in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	essions (F8	3)					
Sandy M	/lucky Mineral (S1) (Ll	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR N,				
MLRA	A 147, 148)		MLRA 13	6)						
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ice (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Indica	tors of hyc	Irophytic vege	etation and
Sandy R	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) wetla	nd hydrolo	gy must be p	resent,
Stripped	l Matrix (S6)		Red Parent M	Material (F2	21) <b>(MLR</b>	A 127, 147	') unles	s disturbed	d or problema	itic.
Restrictive I	Layer (if observed):									
Туре:										
Depth (in	ches):						Hydric Soil Pr	esent?	Yes	No 🖌
Remarks:							•			



**Photo 1** Upland data point WUPA005\_u facing east



**Photo 2** Upland data point WUPA005\_u facing west

Project/Site: SERP	City/County: Up	oshur	Sampling Date: <u>6/24/2014</u>
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA004e_W
Investigator(s):	Section, Towns	hip, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): SWALE	Local relief (conca	ve, convex, none): <u>concave</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): N Lat: 3	38.9730876	Long: <u>-80.26922262</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 15 to 25 percent s	lopes	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 "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 p	oint locations, transects	s, important features, etc.
Hydrophytic Vegetation Present?       Yes _ ✔         Hydric Soil Present?       Yes _ ✔         Wetland Hydrology Present?       Yes _ ✔	No     Is the Sa       No     within a	ampled Area Wetland? Yes <u></u>	No

#### Remarks:

Wetland data point taken in a wet swale for a saturated to semi-permanently flooded PEM wetland; shown on topo as a headwater branch of Fall Run; so severely trampled by cattle that bed, bank, and OHWM are no longer discrrnible so feature was taken as a wetland.

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)
✓ 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)
✓       High Water Table (A2)
✓       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)
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) Year Advance (B13)
Field Observations:
Surface Water Present? Yes <u>/</u> No Depth (inches): 1.5
Water Table Present? Yes <u><ul> <li>No Depth (inches): 0</li></ul></u>
Saturation Present? Yes <u>V</u> No Depth (inches): 0 Wetland Hydrology Present? Yes <u>V</u> No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Pemarke:

Sampling Point: WUPA004e\_W

		Abaaluta	Dominont lu	adioator	Dominance Test worksheet
Tree Stratum (Plot size:	30	% Cover	Species?	Status	Dominance Test worksneet:
	,	70 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					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100 (A/B)
6					
-					Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
		0	= Total Cover	r	
	50% of total cover: 0	20% of	total cover:	0	OBL species $00   x 1 = 00$
Sonling/Shrub Stratum (Diat ai	15				FACW species $25$ x 2 = $50$
Saping/Sinub Stratum (Flot Siz	<u></u> )				15 $45$
1					$\begin{array}{c} FAC species \\ 0 \\ \end{array} \\ \begin{array}{c} X \ S = \\ 0 \\ \end{array} \\ \begin{array}{c} O \\ O \\ \end{array} \\ \begin{array}{c} O \\ O \\ \end{array} \\ \begin{array}{c} O \\ O \\ O \\ \end{array} \\ \begin{array}{c} O \\ O \\ O \\ O \\ \end{array} \\ \begin{array}{c} O \\ O $
2.					FACU species $x 4 = 0$
2					UPL species $0 \times 5 = 0$
J					Column Totalar 100 (A) 155 (D)
4					
5.					5
					Prevalence Index = $B/A = 1.55$
0				·	Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
8.					
0					2 - Dominance Test is >50%
9				. <u> </u>	✓ 3 - Prevalence Index is $\leq 3.0^1$
		0	= Total Cover	r	
	50% of total cover: 0	20% of	total cover:	0	
Llorh Strotum (Diot oizo)	5		·····	·	data in Remarks or on a separate sheet)
	)	45			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex Iupulina		40	Yes	OBL	
2. Juncus effusus		25	Yes	FACW	
<ul> <li>Carex vulpinoidea</li> </ul>		15	No	OBI	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. <u></u>		10	·		be present, unless disturbed or problematic.
4. Juncus tenuis		10	No	FAC	Definitions of Four Vegetation Strata:
5. Eutrochium purpureum		5	No	FAC	
					<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					
o					Sapling/Shrub – Woody plants, excluding vines, less
9					than 3 in. DBH and greater than or equal to 3.28 ft (1
					m) tall
10					inj tali
10 11					
10 11		100			<b>Herb</b> – All herbaceous (non-woody) plants, regardless
10 11		100	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10 11	50% of total cover:50	100 20% of	= Total Cover	20	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10 11 Woody Vine Stratum (Plot size	50% of total cover:50 :30)	100 20% of	= Total Cove	r 20	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
10 11 <u>Woody Vine Stratum</u> (Plot size	50% of total cover:50 :30)	100 20% of	= Total Cover	r 20	<ul> <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>
10 11 <u>Woody Vine Stratum</u> (Plot size 1	50% of total cover:50 :30)	100 20% of	= Total Cover	r 20	<ul> <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>
10	50% of total cover: <u>50</u> : <u>30</u> )	100 20% of	Total Cove	r 20	<ul> <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>
10	50% of total cover: <u>50</u> : <u>30</u> )	20% of	= Total Cover	r 20	<ul> <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>
10	50% of total cover:50 :30)	100 20% of	= Total Cover	r 20	<ul> <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>
10	50% of total cover: <u>50</u> : <u>30</u> )	20% of	= Total Cover f total cover:	r 20	<ul> <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>
10	50% of total cover: <u>50</u> : <u>30</u> )	20% of	= Total Cover f total cover:	20	<ul> <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>
10	50% of total cover:50 :30)	100 20% of 	= Total Cover f total cover:	r	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
10	50% of total cover:50 :)	0	= Total Cover	20 	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
10	50% of total cover:50 :) 	0 0	= Total Cover f total cover:   = Total Cover total cover:	20 	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
10	50% of total cover:50 :) 	0 0 0 0 20% of heet.)	= Total Cove f total cover:	20 	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
10	50% of total cover:50 :) 	20% of 20% of 0 20% of heet.)	= Total Cove f total cover:	20 	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
10	50% of total cover:50 :) 	20% of 20% of 0 20% of heet.)	= Total Cove f total cover:	20 	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
10	50% of total cover:50 :) 	20% of 20% of 0 20% of heet.)	= Total Cove f total cover:	r 20	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
10	50% of total cover: 50 : 30) : 50% of total cover: 0 ers here or on a separate s	0 0 0 20% of	= Total Cove f total cover:	r 20	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
10	50% of total cover:50 :) 	0 0 0 20% of	= Total Cove f total cover:	r 20	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
10	50% of total cover: 50 : 30) 50% of total cover: 0 ers here or on a separate s	0 0 0 0 0 0 heet.)	= Total Cove f total cover:	r 20	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
10	50% of total cover:50 :) 	0 0 0 0 0 0 heet.)	= Total Cove f total cover:	r 20	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
10	50% of total cover: <u>50</u> : <u>30</u> ) 50% of total cover: <u>0</u> ers here or on a separate s	0 0 0 20% of heet.)	= Total Cove f total cover:	r 20	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
10	50% of total cover: <u>50</u> : <u>30</u> ) 50% of total cover: <u>0</u> ers here or on a separate s	0 0 0 20% of heet.)	= Total Cove f total cover:	0	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 Desc	cription: (Describe t	o the dep	oth needed to docum	nent the i	ndicator	or confirm	n the absence	of indicators.)	
Depth	Matrix		Redo	<u>x Feature</u>	<u>s</u> 1	. 2			
(inches)	Color (moist)		Color (moist)		<u>Type</u>			Remarks	
0-18	7.5YR 4/2	50	7.5YR 4/6	5	C	PL	SICL		
	10YR4/1	45					SICL		
·									
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL	_=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:	·	·				Indica	tors for Problematic Hydric Soils <sup>3</sup>	:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) <b>(MLRA 147)</b>	
Histic E	oipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(M</b>	LRA 147,	148) Co	past Prairie Redox (A16)	
Black H	stic (A3)		Thin Dark Su	rface (S9	) (MLRA 1	47, 148) <sup>′</sup>	-, <u> </u>	(MLRA 147, 148)	
Hvdroae	en Sulfide (A4)		Loamv Gleve	d Matrix (	F2)		Pi	edmont Floodplain Soils (F19)	
Stratifie	d Lavers (A5)		<ul> <li>Depleted Mat</li> </ul>	trix (F3)	, ,			(MLRA 136, 147)	
2 cm Mi	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	e (F7)		01	ther (Explain in Remarks)	
Thick Da	ark Surface (A12)	()	Redox Depre	ssions (F	8)				
Sandy N	/uckv Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan	ese Mass	-, es (F12) <b>(I</b>	_RR N.			
MLR/	A 147. 148)	,	MLRA 13	6)	···/ (···/ (·	,			
Sandy G	Bleved Matrix (S4)		Umbric Surfa	ce (F13)	MLRA 13	6, 122)	<sup>3</sup> Indi	cators of hydrophytic vegetation and	ł
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>I8)</b> wet	tland hydrology must be present,	
Stripped	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	、 A 127, 147	7) unle	ess disturbed or problematic.	
Restrictive	Laver (if observed):			,	, τ		,		
Type. NO	ONÉ Ó								
Denth (in	abaa).						Undria Cail		
Depth (in	cnes):						Hydric Soll	Present? fes No	
Remarks:									



Photo 1 Wetland data point WUPA004e\_w facing northwest



Photo 2 Wetland data point WUPA004e\_w facing southwest

Project/Site: SERP	City/County: Upsh	ur	Sampling Date: 6/24/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA004_U
Investigator(s): GB, LE	Section, Township	, Range: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (concave,	convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.</u>	97308579	Long: <u>-80.26927508</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 15 to 25 percent slop	Des	NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical for thi	s time of year? Yes N	lo (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly disturbed?	re "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrologyr	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	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point at the toe of slope at	pove a PEM wet	land in a wet swale,	active pasture		

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 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>Ves</u> No <u>Depth</u> (inches): <u>20</u>	
Saturation Present? Yes <u>Ves</u> No Depth (inches): <u>18</u> Wetland	Hydrology Present? Yes No
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable.
Remarks:	

Sampling Point: WUPA004\_U

Trop Stratum (Plat size: 30 )	Absolute	Dominant	Indicator	Dominance Test worksheet:
Quercus rubra	<u>% Cover</u> 5	<u>Species?</u> Yes	FACU	Number of Dominant Species
2 Prunus serotina	3	Yes	FACU	
3				Total Number of Dominant
4				
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
/	8	- Total Cov		Total % Cover of: Multiply by:
50% of total cover: 4	20% of	total cover:	1.6	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15)				FACW species x 2 =0
1 Rosa multiflora	6	Yes	FACU	FAC species $20$ x 3 = $60$
2				FACU species $95$ x 4 = $380$
2			·	UPL species $0$ x 5 = $0$
3	·			Column Totals: $115$ (A) $440$ (B)
4				
5				Prevalence Index = B/A =3.82
7				Hydrophytic Vegetation Indicators:
7:				1 - Rapid Test for Hydrophytic Vegetation
8			·	2 - Dominance Test is >50%
9	6			3 - Prevalence Index is $≤3.0^1$
FOOV of total accuracy 3		= Total Cove	er 1.2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of	total cover:		data in Remarks or on a separate sheet)
Dactylis glomerata	30	Vec	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	30	Ves	FACU	
2. Testuca Tubla	12	No	EACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Infolum repens	12		FACU	be present, unless disturbed or problematic.
4. Juncus tenuis	10		FAC	Definitions of Four Vegetation Strata:
5. Eutrochium purpureum	10	NO	FAC	<b>Trop</b> Woody plants, avaluding vinos, 2 in (7.6 cm) or
6. Trifolium pratense	5	No	FACU	more in diameter at breast height (DBH), regardless of
7Taraxacum officinale	4	No	FACU	height.
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.
11				Herb – All herbaceous (non-woody) plants, regardless
	101	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50.5</u>	20% of	total cover:	20.2	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	er	Present? Yes No V
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the dept	h needed to docu	ment the ir	ndicator	or confirm	the absence of	of indicato	rs.)	
Depth	Matrix		Redo	ox Features	S1					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-5	7.5YR 3/3	100					SCL			
5-18	7.5YR 5/3	100					SC			
							·			
							·			
<sup>1</sup> Type: C=C	oncentration, D=Depl	 etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL:	=Pore Linir	ng, M=Matrix.	
Hydric Soil	Indicators:						Indicat	ors for Pr	oblematic Hyd	dric Soils <sup>3</sup> :
Histosol Histic E  Black Hi Hydroge Stratifie 2 cm Mu Depletee Thick Da Sandy M	I (A1) pipedon (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>(L</b> A 147, 148)	e (A11) <b>RR N,</b>	Dark Surface     Polyvalue Be     Thin Dark Su     Loamy Gleye     Depleted Ma     Redox Dark     Depleted Da     Redox Depred     Iron-Mangar     MLRA 13	e (S7) elow Surfac urface (S9) ed Matrix (F atrix (F3) Surface (Fi rk Surface essions (F8 nese Masse <b>36</b> )	ce (S8) <b>(M</b> (MLRA 1 <sup>7</sup> 2) 6) (F7) 3) es (F12) <b>(I</b>	ILRA 147, 47, 148) LRR N,	2 co 148) Co Pie Ve Oth	m Muck (A ast Prairie (MLRA 14 edmont Flo (MLRA 13 (MLRA 13 ry Shallow her (Explai	(10) <b>(MLRA 14</b> Redox (A16) <b>7, 148)</b> odplain Soils ( <b>6, 147)</b> Dark Surface n in Remarks)	<b>F1</b> 9) (TF12)
Sandy C Sandy F Stripped	Gleyed Matrix (S4) Redox (S5) Matrix (S6)		Umbric Surfa Piedmont Flo	ace (F13) <b>(I</b> podplain So Material (F2	<b>MLRA 13</b> bils (F19) 21) <b>(MLR</b>	6, 122) (MLRA 14 A 127, 147	<sup>3</sup> Indic 8) wetl 7) unle	ators of hy and hydrol ss disturbe	vdrophytic vege ogy must be p ed or problema	etation and resent, tic.
Restrictive	Layer (if observed):								-	
Type: no	one									
Depth (in	ches):						Hydric Soil F	Present?	Yes	No 🖌
Remarks:										



Photo 1 Upland data point WUPA004\_u facing southeast



Photo 2 Upland data point WUPA004\_u facing northeast

Project/Site: Atlantic Coast Pipeline	City/County: U	pshur	_ Sampling Date: 5/13/2015
Applicant/Owner: DOMINION		State: WV	Sampling Point: wupc001e_w
Investigator(s): Team C	Section, Town	ship, Range: No PLSS in this are	ea
Landform (hillslope, terrace, etc.): Drainage patterns	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): N Lat: 38.970	009132	Long: <u>-80.2688342</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 8 to 15 percent slopes		NWI classi	ication: None
Are climatic / hydrologic conditions on the site typical for this ti	ime of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed?	Are "Normal Circumstances'	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	ıowing sampling ا	ooint locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	Is the S	Sampled Area	
Hydric Soil Present? Yes No_	within a	a Wetland? Yes 🗹	No
Wetland Hydrology Present? Yes <u>Ves</u> No_			

#### Remarks:

Checked box for naturally problematic soil due to lack of hydric soil indicator. Also checked box for sampled area within a wetland. Field ecologist indicates it may be due to newly formed wetland. 5/28/15 jm

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 Present? Yes No Depth (inches):	
Water Table Present? Yes <u>V</u> No Depth (inches): 0	
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
wettand hydrology indicators present	

Sampling Point: wupc001e\_w

, ,	Abaaluta	- Dominant li		Deminence Test werkehest
Tree Stratum (Plot size: 30)	Absolute % Cover	Species?	Status	Dominance Test worksneet:
(1100 Ollatam) (1101 5/20.	/0 00101		Olalas	Number of Dominant Species
[ <sup>1</sup>		·		That Are OBL, FACW, of FAC: (A)
2		·		Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5	• •			Percent of Dominant Species
o		·		That Are OBL, FACW, or FAC: (A/B)
6		·		Drevelence Index werkeheet:
7				Prevalence Index worksneet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:	0	OBL species45 x 1 =45
	20 /0 01			$FACW$ species $\frac{45}{x^2} = 90$
Sapling/Shrub Stratum (Plot size:)				
1				FAC species $x_3 = 0$
2.				FACU species $0 x 4 = 0$
3				UPL species $0   x 5 = 0$
		·		Column Totals: $90$ (A) $135$ (B)
4		·		
5				Prevalence Index $- R/\Delta - 1.5$
6				
7				Hydrophytic Vegetation Indicators:
1				1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Provolongo Index is <2.0 <sup>1</sup>
	0	= Total Cove	r	<u> </u>
50% of total cover: 0	20% of	total cover	0	4 - Morphological Adaptations' (Provide supporting
Liente Christiane (Diet einen 5	2070 01			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	40		<b>F A O A I</b>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Juncus enusus	40	Yes	FACW	(
<sub>2.</sub> Carex stipata	30	Yes	OBL	1
3 Eleocharis palustris	10	No	OBL	Indicators of hydric soil and wetland hydrology must
Impatiens capensis	5	No	FACW	be present, unless disturbed or problematic.
4. mpatiene superiole	- <del>-</del>			Definitions of Four Vegetation Strata:
5. Kosa palusins	5	NO	OBL	
6				Iree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				height
·· <u></u>				noight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	90	Tatal Cause		ef size, and weady plants loss than 2.28 ft tall
500/ of total access 45	000/ -1	= Total Cove	18	of size, and woody plants less than 5.26 it tall.
	20% 01	total cover:	10	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				
2				
2				
J		·		
4				Hydronbytic
5.				Vegetation
	0		-	Present? Yes <u>No</u>
E0% of total anyor:	20% of		0	
	20% 0	total cover.		
Remarks: (Include photo numbers here or on a separate	sheet.)			

Depth	Matrix		Redo	x Features	S				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-16	5 YR 4/3	100					SL		
				·					
							<u> </u>		
				·			·		
				. <u></u>					
				<u> </u>					
Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lini	ng, M=Matrix.
ydric Soil	Indicators:						Indica	ators for Pi	roblematic Hydric Soils
Histoso	l (A1)		Dark Surface	e (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	oast Prairie	e Redox (A16)
Black H	istic (A3)		Thin Dark Sι	rface (S9)	) (MLRA 1	47, 148)		(MLRA 14	7, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		P	iedmont Flo	oodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)
2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface (F	6)		V	ery Shallow	/ Dark Surface (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surface	(F7)		C	ther (Expla	in in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (Fa	8)				
 Sandy M	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	, es (F12) <b>(</b>	LRR N.			
MLR	A 147. 148)	,	MLRA 13	6)		,			
Sandy (	Gleved Matrix (S4)		Umbric Surfa	-, ice (F13) (	MLRA 13	6. 122)	<sup>3</sup> Ind	icators of h	vdrophytic vegetation an
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	8) we	tland hvdro	loav must be present.
Stripped	d Matrix (S6)		Red Parent	Aaterial (F	21) <b>(MLR</b>	、 A 127, 147	') un	less disturb	ed or problematic.
Restrictive	Layer (if observed):						-		
Type:									
Depth (in	iches):						Hydric Soil	Present?	Yes No _
Remarks:							1		



Photo 1 Wetland data point wupc001e\_w facing east



Photo 2 Wetland data point wupc001e\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Upshur Sampling Date: 5/13/2	2015
Applicant/Owner: DOMINION	State: WV Sampling Point: WU	oc001_u
Investigator(s): Team C	Section, Township, Range: No PLSS in this area	
Landform (hillslope, terrace, etc.): Slight slope	Local relief (concave, convex, none): <u>none</u> Slope (%	): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.9699952	21 Long: -80.26893618 Datum: WG	S 1984
Soil Map Unit Name: Ernest silt loam, 8 to 15 percent slopes	NWI classification: <u>None</u>	
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes 🔽 No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circumstances" present? Yes 🔽	No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)	

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

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

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 Li	iving Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C	C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Till	ed 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 <u></u>	
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       Yes	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 in	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 in	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 in         Remarks:       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 ir         Remarks:         No wetland hydrology indicators present	Wetland Hydrology Present? Yes No
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Sampling Point: wupc001\_u

		Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 )	<u>% Cover</u>	Species?	Status	Number of Deminant Species
1	/				That Are OBL EACW or EAC $0$ (A)
·· <u> </u>			·		
Z					Total Number of Dominant
3			·		Species Across All Strata: (B)
4			<u> </u>		Description of Description
5.					Thet Are ORL EACING or EAC: 0 (A/R)
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 $0 x 1 = 0$
Sapling/Shrub Stratum (Plot siz	ze: 15 )				FACW species x 2 =0
1	,				FAC species $0   x 3 = 0$
					FACU species $70 \times 4 = 280$
2			·		$1/100000000 = \frac{5}{25}$
3					UPL species         X 5 =           75         305
4					Column Totals: (A) (B)
5.					
			·	·	Prevalence Index = $B/A = 4.06$
			·		Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
8					2 - Dominance Test is >50%
9.					
		0	- Total Cove	r	3 - Prevalence Index is ≤3.0°
	EQ8/ of total power: 0	20%		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	50% of total cover	20% 0	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	)	40			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Irifolium pratense		40	Yes	FACU	
<sub>2.</sub> Stellaria graminea		25	Yes	FACU	
3 Ranunculus bulbosus		5	No		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		0	INU	UFL	he many set to all set all should be marked as a first
J Dipsacus fullonum		5	No No	FACU	be present, unless disturbed or problematic.
4. Dipsacus fullonum		5	No	FACU	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4. Dipsacus fullonum 5		5	No	FACU	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
<ul> <li><u>4.</u> Dipsacus fullonum</li> <li>5</li> <li>6</li> </ul>		5	No	FACU	be present, unless disturbed or problematic. <b>Definitions of Four Vegetation Strata:</b> <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4. Dipsacus fullonum       5.       6.       7.		5	<u>No</u>	FACU	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.
4. Dipsacus fullonum           5.           6.           7.           8		5	<u>No</u>	FACU	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.
4. Dipsacus fullonum       5.       6.       7.       8.       2		5	<u>No</u> No	FACU	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
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4. Dipsacus fullonum         5.         6.         7.         8.         9.         10.         11.	50% of total cover: 37.5	 	 No   = Total Cover f total cover:	FACU FACU	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.
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4. Dipsacus fullonum           5.           6.           7.           8.           9.           10.           11.	50% of total cover: <u>37.5</u> :: <u>30</u> )	5 	Total Cover:_	FACU FACU	<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. Dipsacus fullonum         5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>37.8</u> .: <u>30</u> ) 50% of total cover: <u>0</u> bers here or on a separate s		Total Cover:	 FACU	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. Dipsacus fullonum         5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>37.5</u> 50% of total cover: <u>0</u> 50% of total cover: <u>0</u> bers here or on a separate s		Total Cover:	 FACU	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. Dipsacus fullonum         5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum         (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>37.8</u> 50% of total cover: <u>0</u> 50% of total cover: <u>0</u> bers here or on a separate s	5 	Total Cover:	 FACU	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. Dipsacus fullonum         5.         6.         7.         8.         9.         10.         11.         Woody Vine Stratum         (Plot size         1.         2.         3.         4.         5.	50% of total cover: <u>37.8</u> 50% of total cover: <u>0</u> 50% of total cover: <u>0</u> pers here or on a separate s	5 	= Total Cover:	r 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

Profile Desc	cription: (Describe t	o the dept	n needed to docun	nent the ind	licator c	or confirm	the absence of indic	ators.)	
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	7.5 YR 4/3	100					SL		
		<u> </u>		<u> </u>	<u> </u>	·	· · ·		
		<u> </u>		<u> </u>	<u> </u>	·	· · ·		
<u> </u>									
·							·		
<sup>1</sup> Type: C-C	oncentration D-Denl	otion RM-	Peduced Matrix MS	S-Mackad S	and Gra	ine	<sup>2</sup> Location: PL-Pore L	ining M-Matrix	
	Indicators:				anu Gia			Problematic H	vdric Soils <sup>3</sup>
Histosol	(A1)		Dark Surface	(97)			2 cm Muc	(A 10) (MI DA 1	(47)
Histic Fi	$(\Delta 1)$		Polyvalue Be	low Surface	(S8) <b>(M</b>	I R A 147	148) Coast Pra		147)
Black Hi	istic ( $\Delta$ 3)		Thin Dark Su	rface (SQ) (		47 148)	(MIRA	147 148)	
<u> </u>	$Sulfide (\Delta A)$			nd Matrix (F2		+1, 140)	Piedmont	Floodolain Soils	(F10)
Stratifie	d Lavers (A5)		Depleted Mat	trix (F3)	.)			136 147)	(115)
2 cm Mi	uck (A10) <b>(I RR N)</b>		Bedox Dark S	Surface (F6)			Verv Shal	ow Dark Surface	- (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface (F	7)		Other (Ex	lain in Remarks	s)
Thick Da	ark Surface (A12)	(,,,,,)	Redox Depre	essions (F8)	.,				')
Sandy N	/ucky Mineral (S1) (L	RR N.	Iron-Mangan	ese Masses	(F12) <b>(L</b>	.RR N.			
MLR/	A 147. 148)	,	MLRA 13	6)	(, (-	,			
Sandy G	Gleved Matrix (S4)		Umbric Surfa	ce (F13) <b>(M</b>	LRA 136	5, 122)	<sup>3</sup> Indicators o	hvdrophytic ve	petation and
Sandy F	Redox (S5)		Piedmont Flo	odplain Soil	s (F19) <b>(</b>	MLRA 14	8) wetland hyd	lrology must be	present,
Stripped	Matrix (S6)		Red Parent N	Aaterial (F21	) (MLRA	A 127, 147	) unless dist	rbed or problem	hatic.
Restrictive	Laver (if observed):				/ (		,	•	
Type:									
Denth (in	ches).						Hydric Soil Present		No 🖌
Demerius								. 165	
Remarks:									
No hydric soi	present								



**Photo 1** Upland data point wupc001\_u facing east



**Photo 2** Upland data point wupc001\_u facing north

Project/Site: SERP	City/County: U	pshur	Sampling Date: 6/25/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA006e_W
Investigator(s): GB, LE	Section, Town	ship, Range: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): SWALE	Local relief (conca	ive, convex, none): <u>concave</u>	Slope (%): <u>10</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>3</u>	8.97047956	Long: <u>-80.26784433</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams, 15 to 25 p	ercent 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 _ Yes _ Yes _	V V V	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks: Saturated PEM wetland within a swale, w	as a sti	ream b	ut cattle have trample	ed it into a wetland		

Wetland Hydrology Indicato	rs:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum	of one is required; che	Surface Soil Cracks (B6)			
Primary Indicators (minimum of one is required; check all that apply)         ✓       Surface Water (A1)       True Aquatic Plants (B14)         ✓       High Water Table (A2)       Hydrogen Sulfide Odor (C1)         ✓       Saturation (A3)       Oxidized Rhizospheres on Living Rod         ✓       Water Marks (B1)       Presence of Reduced Iron (C4)         Sediment Deposits (B2)       Recent Iron Reduction in Tilled Soils         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 (B	9)		EAC Noutral Test (D5)		
Aqualic Faulta (B13)					
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	Yes <u>v</u> No <u>ves</u> No <u>No ves</u> No <u>ves</u> No <u>ves</u> No <u>ves</u> No <u>ves</u> N	_ Depth (inches): 0.5 _ Depth (inches): 0 _ Depth (inches): 0 well, aerial photos, previous inspec	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:		
Remarks: former stream, trampled by cat	ttle				

Sampling Point: WUPA006e\_W

	Absoluto	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
1				Number of Dominant Species
		·		
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				
	-	·		Percent of Dominant Species
D		· · · · · · · · · · · · · · · · · · ·		That Are OBL, FACW, or FAC: (A/B)
6				Developer to develop to the set
7.				Prevalence Index worksheet:
	0	- Total Cove	r	Total % Cover of:Multiply by:
E0% of total power: 0	200/ of		0	OBL species $50$ x 1 = $50$
	20% 01	total cover.		50 x 2 $-$ 100
Sapling/Shrub Stratum (Plot size:)				$\frac{1}{2} = \frac{1}{2}$
1				FAC species $x_3 = 0$
2				FACU species x 4 =0
2				UPL species $0 \times 5 = 0$
3		· . <u></u>		$100 \times 100 \times 100$
4				Column Totals: (A) (B)
5.				5
6				Prevalence Index = $B/A = 1.5$
0		·		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				
<u> </u>				2 - Dominance Test is >50%
9	0			$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove	r	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover:	0	dete in Remarke er en e concrete sheet)
Herb Stratum (Plot size: 5)				
1 Juncus effusus	40	Yes	FACW	Problematic Hydrophytic Vegetation' (Explain)
Carex lunulina	30	Ves	OBI	
		165		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex vulpinoidea	10	No	OBL	be present, unless disturbed or problematic.
4. Impatiens capensis	10	No	FACW	Definitions of Four Verstetion Strates
Scirpus atrovirens	10	No	OBI	Definitions of Four vegetation Strata:
5				<b>Tree</b> – Woody plants, excluding vines, 3 in (7.6 cm) or
6				
				more in diameter at breast height (DBH) regardless of
7.				more in diameter at breast height (DBH), regardless of height.
7				more in diameter at breast height (DBH), regardless of height.
7 8				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
7 8 9				more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
7				more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
7       8       9       10       11				more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
7				more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless
7		= Total Cove		<ul> <li>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>
7	   20% of	= Total Cove	r 20	<ul> <li>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</li> </ul>
7	 100 20% of	= Total Cove	r 20	<ul> <li>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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7	 100 20% of	= Total Cove total cover:_	r 20	<ul> <li>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>
7	100 20% of	= Total Cove total cover:_	r 20	<ul> <li>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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7.	     0	= Total Cove total cover:		<ul> <li>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>
7.	     	= Total Cove total cover: = Total Cove	r 20	<pre>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</pre>
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Profile Desc	ription: (Describe te	o the dep	th needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Features	6			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18	7.5YR 5/2	95	7.5YR 4/6	5	С	PL/M	SICL	
·								
<u> </u>								
<u> </u>								
<sup>1</sup> Turney C. C.			Deduced Metric MC	Maaluad			<sup>2</sup> l a setient D	Deve Lining M. Metric
	ncentration, D=Deple	etion, RIVI	=Reduced Matrix, MS	=IVIasked	Sand Gra	ains.	Location: P	L=Pore Lining, M=Matrix.
Hydric Soli				(0-)			muic	
Histosol	(A1)		Dark Surface	(\$7)	(0.0) (1)		2	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	Dipedon (A2)		Polyvalue Be	low Surfac	ce (S8) (N	ILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	_	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		P	Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)	· • •		,	(MLRA 136, 147)
2 cm Mu	ick (A10) <b>(LRR N)</b>	( )	Redox Dark S	Surface (F	6) (F7)		V	Very Shallow Dark Surface (TF12)
Depleted	D Below Dark Surface	(A11)	Depleted Dar	k Surrace	(F7)			other (Explain in Remarks)
	ark Surrace (A12)		Redox Depre	SSIONS (FO	5) 			
		KK N,			es (F12) (	LKK N,		
	A 147, 148)		WILRA 130	<b>))</b> (E40) (		C 400)	31	liesten of hudron hutie up actetion and
Sandy G			Uniblic Sulla	ce (F13) <b>(</b> adalaia S		0, 122) (MI DA 44	<b>e)</b>	attend hydrology must be present
Sandy R	Motrix (SC)		Pleamont Flo	ouplain So		(IVILKA 14	o) we	land hydrology must be present,
Surpped	Watrix (50)			iateriai (F.		A 127, 147	<b>)</b> un	liess disturbed of problematic.
Restrictive	Layer (ir observed):							
Type:								
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:								



Photo 1 Wetland data point WUPA006e\_w facing east



Photo 2 Wetland data point WUPA006e\_w facing west
Project/Site: SERP	City/County: Upsh	iur	Sampling Date: 6/25/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA006_U
Investigator(s): GB, LE	Section, Township	o, Range: No PLSS in this Are	a
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (concave,	convex, none): none	Slope (%): <u>12</u>
Subregion (LRR or MLRA): <u>N</u> Lat:	38.97050882	Long: <u>-80.26788725</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams, 15 to 25	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 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.)
			in a stant facture of a

#### 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	ン ン ン	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							
Upland data point taken at toe of slope	above PEM wet	land in	swale				

Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; che	eck all that apply)	Surface Soil Cracks (B6)
Primary indicators (minimum     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 Aer     Water-Stained Leaves (E	or one is required; che 	<ul> <li><u>ck all that appy</u></li> <li>True Aquatic Plants (B14)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled So</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	<ul> <li>Surrace Soil Cracks (B6)</li> <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 No 🔽	Depth (inches):	
Water Table Present?	Yes No 🔽	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No 🗹	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stre no hydrology indicators Remarks:	am gauge, monitoring	g well, aerial photos, previous inspec	ctions), if available:

Sampling Point: WUPA006\_U

, ,		<u> </u>		
Tree Charthan (Dist size) 30	Absolute	Dominant I	ndicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1		·		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
		·		
4		·		Percent of Dominant Species
5		<u></u>		That Are OBL, FACW, or FAC: 0 (A/B)
6				
7				Prevalence Index worksheet:
/·	0			Total % Cover of: Multiply by:
		= I otal Cove	er O	$\frac{1}{0}$ OBL species $\frac{1}{0}$ $\frac{1}{1}$
50% of total cover: 0	20% of	f total cover:	0	
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x 2 = 0$
1				FAC species x 3 =0
··		·		FACU species $112$ x 4 = $448$
Z		·		
3				$\begin{array}{c} \text{OPL species} \\ 112 \\ 112 \\ 148 \\ $
4.				Column Totals: (A) (B)
5				
		<u></u>		Prevalence Index = B/A =4
6		·		Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
9				3 - Prevalence Index is $≤3.0^{1}$
	0	= Total Cove	er	
50% of total cover: 0	20% of	f total cover:	0	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sheet)
Anthoxanthum odoratum	30	Ves	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			T A00	
2. Festuca rubra	30	Yes	FACU	
<sub>3.</sub> Dactylis glomerata	15	No	FACU	he present unless disturbed or problematic
A Phleum pratense	15	No	FACU	be present, unless disturbed of problematic.
4	10	No	ГАСИ	Definitions of Four Vegetation Strata:
5. <u>Chistan arvense</u>		INO	FACU	Tree Weeds release eveluding since 2 in (7.0 erg) or
6. Rubus allegheniensis	7	No	FACU	nee – woody plants, excluding vines, 3 in. (7.6 cm) or
7 Trifolium pratense	5	No	FACU	height
		·		noight.
8		·		Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				
	112			Herb – All herbaceous (non-woody) plants, regardless
FG		= Total Cove	er 22.4	or size, and woody plants less than 3.28 it tall.
50% of total cover: <u>50</u>	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				
2				
3		<u> </u>		
4				Undranda tia
5				Vegetation
	0		<u> </u>	Present? Yes No
0		= I otal Cove	er O	
50% of total cover:	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Des	cription: (Describe	to the dept	n needed to docur	nent the ir	ndicator	or confirm	the absence of	f indicato	rs.)
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-8	7.5YR 3/3	100					SCL		
8-20	7.5YR 4/4	100					CL		
	·								
<sup>1</sup> Type: C=C	Concentration D-Den	letion RM-F	Reduced Matrix M	S-Masked	Sand Gra	ains	<sup>2</sup> Location: PL =	Pore Linin	ng M-Matrix
Hydric Soil	Indicators:			0=mashea			Indicate	ors for Pro	oblematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	e (S7)			2 cr	m Muck (A	(10) (MLRA 147)
Histic E	pipedon (A2)		Polvvalue Be	elow Surfac	e (S8) <b>(N</b>	ILRA 147.	148) Coa	ast Prairie	Redox (A16)
Black H	listic (A3)		Thin Dark Su	urface (S9)	(MLRA 1	47. 148)	(	MLRA 147	7. 148)
Hvdrog	en Sulfide (A4)		Loamy Gleve	ed Matrix (F		,,	Pie	dmont Flo	odplain Soils (F19)
Stratifie	d Lavers (A5)		Depleted Ma	trix (F3)	_/		(	MLRA 136	5. 147)
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Ver	v Shallow	Dark Surface (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surface	(F7)		0th	er (Explain	n in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (F8	()			o. (±,,p.c.)	
Sandy I	Mucky Mineral (S1) (L	.RR N.	Iron-Mangan	ese Masse	., es (F12) <b>(I</b>	LRR N.			
<u> </u>	A 147. 148)	,	MLRA 13	6)	- (· · -) <b>(</b> -	,			
Sandy (	Gleved Matrix (S4)		Umbric Surfa	-, ace (F13) <b>(I</b>	MLRA 13	6. 122)	<sup>3</sup> Indica	ators of hv	drophytic vegetation and
Sandy I	Redox (S5)		Piedmont Flo	podplain Sc	oils (F19)	(MLRA 14	8) wetla	and hydrol	ogy must be present.
Stripped	d Matrix (S6)		Red Parent	Material (F2	21) <b>(MLR</b>	A 127, 147	) unles	ss disturbe	ed or problematic.
Restrictive	Layer (if observed):								
Type: N	ONE								
Depth (in	nches):						Hydric Soil P	resent?	Yes No 🖌
Remarks:							•		



**Photo 1** Upland data point WUPA006\_u facing west



Photo 2 Upland data point WUPA006\_u facing east

Project/Site: SERP	City/County: Ups	hur	Sampling Date: 6/26/2014
Applicant/Owner: Dominion		State: WV	Sampling Point: WUPB006e_w
Investigator(s): TP	Section, Townshi	p, Range: <u>No PLSS in this Are</u>	a
Landform (hillslope, terrace, etc.): floodplain	Local relief (concave	e, convex, none): <u>concave</u>	Slope (%): <u>0</u>
Subregion (LRR or MLRA): N Lat	38.94540771	Long: <u>-80.25128845</u>	Datum: WGS 1984
Soil Map Unit Name: Orrville-Holly silt loams		NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for	or 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 n	nap showing sampling po	int 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:							
Please note, area flagged contained wetland plants and hydric soils. however, the only observed hydrology were rhizospheres. no saturation or water in hole.							

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> Sparsely Vegetated Concave Surface (B8)</li> <li> Drainage Patterns (B10)</li> <li>(C3) 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 Concern Depth (inches): Wetl (includes capillary fringe)	and Hydrology Present? Yes <u>/</u> No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	if available:		
Remarks:			

Sampling Point: WUPB006e\_w

, ,	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Spacing
1				That Are OBL FACW or FAC $3$ (A)
··				
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7				Prevalence Index worksheet:
/	0	Total Cave		Total % Cover of: Multiply by:
	000/ -		er O	OBL species $30 \times 1 = 30$
	20% 0	r total cover:		$60$ $x_2 = 120$
Sapling/Shrub Stratum (Plot size: )				30 $90$
1				FAC species $x^3 = 0$
2				FACU species $4 = 0$
3.				UPL species x 5 =
4.				Column Totals: <sup>120</sup> (A) <sup>240</sup> (B)
4				
5				Prevalence Index = B/A =2
6		. <u></u>		Hydrophytic Vegetation Indicators
7				1 - Rapid Test for Hydrophytic Vegetation
8.				
9				2 - Dominance Test is >50%
ð	0			Y 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove	er O	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% o	t total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Juncus effusus	60	Yes	FACW	
<sub>2.</sub> Juncus tenuis	30	Yes	FAC	
3 Scirpus atrovirens	30	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree Woody plants, evoluting vince 2 in (7.6 cm) or
6				more in diameter at breast height (DBH) regardless of
7				height.
8				
0				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				
11				Herb – All herbaceous (non-woody) plants, regardless
	120	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 60	) 20% o	f total cover:	24	We advising Allowed wines proton then 2.00 ft in
Woody Vine Stratum (Plot size: 30 )				woody vine – All woody vines greater than 3.28 ft in beight
1				Teight.
·				
<u>2</u>		·		
3		. <u> </u>		
4				Hydrophytic
5				Vegetation
	0	= Total Cove	er	Present? Yes V No
50% of total cover: 0	20% 0	f total cover:	0	
Pomarke: (Include photo numbers here or on a soparate	choot)			
Remarks. (include photo numbers here of on a separate	sneet.)			

Depth	Matrix		Redo	ox Feature	s ,			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10 YR 4/1	95	10YR 4/6	5	C	PL	CL	
Type: C=C	Concentration, D=Depl	etion, RN	I=Reduced Matrix, M	S=Maske	d Sand Gra	ains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.
Iydric Soil	I Indicators:						Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histosc	ol (A1)		Dark Surfac	e (S7)			2 cm	n Muck (A10) <b>(MLRA 147)</b>
Histic E	Epipedon (A2)		Polyvalue B	elow Surfa	ice (S8) <b>(N</b>	ILRA 147,	148) Coa	st Prairie Redox (A16)
Black H	Histic (A3)		Thin Dark S	urface (S9	) (MLRA 1	47, 148)	· (N	/LRA 147, 148)
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Pied	Imont Floodplain Soils (F19)
Stratifie	ed Lavers (A5)		Depleted Ma	atrix (F3)	· · ·		(N	/LRA 136. 147)
2 cm M	luck (A10) <b>(I RR N)</b>		Redox Dark	Surface (I	-6)		Verv	Shallow Dark Surface (TE12)
Deplete	ed Below Dark Surface	(A11)	Depleted Da	rk Surface	) (F7)		Othe	er (Explain in Remarks)
Dopieu Thick Γ	ark Surface (A12)	, (, (, ), )	Beday Depr	essions (E	2(17)			
Thick L	Music Mineral (C1) (				0) aa (E10) <b>(</b>			
Sandy MLR	Mucky Mineral (ST) (L A 147. 148)	KK N,	MLRA 1	1656 Mass 36)	es (F12) (	LKK N,		
Sandy	Gleved Matrix (S4)		Umbric Surf	ace (F13)	(MLRA 13	6, 122)	<sup>3</sup> Indica	tors of hydrophytic vegetation and
Sandy	Redox (S5)		Piedmont Fl	oodplain S	oils (F19)	(MLRA 14	8) wetla	nd hydrology must be present,
Strippe	d Matrix (S6)		Red Parent	Material (F	21) (MLR	A 127, 147	') unles	s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Pr	esent? Yes 🔽 No
Remarks:								



Photo 1 Wetland data point WUPB006e\_w facing east



Photo 2 Wetland data point WUPB006e\_w facing south

Project/Site: SERP	(	City/County: Upshur		Sampling Date: 6/26/2014
Applicant/Owner: Dominion			State: WV	_ Sampling Point: WUPB006_u
Investigator(s): TP	S	Section, Township, Rang	e: No PLSS in this Area	
Landform (hillslope, terrace, etc.): hill	slope Loca	al relief (concave, conve	x, none): <u>none</u>	Slope (%): <u>10</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.94554152</u>	Long:	-80.25129533	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam,	8 to 15 percent slopes		NWI classifica	ation: None
Are climatic / hydrologic conditions on	the site typical for this time of yea	r?Yes 🖌 No 🔄	(If no, explain in Re	emarks.)
Are Vegetation, Soil, o	or Hydrology significantly c	listurbed? Are "No	ormal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, o	or Hydrology naturally prob	plematic? (If need	ded, 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 Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

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

Sampling Point: WUPB006\_u

, , ,	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: 0 (A)
2				
-			·	Total Number of Dominant
3			·	Species Across All Strata: (B)
4			<u> </u>	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6.				
7				Prevalence Index worksheet:
	0	- Total Cova		Total % Cover of: Multiply by:
E0% of total covery	200/ at		0	OBL species $0   x 1 = 0$
	20% 0	total cover.		EACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size:)				
<u>    1.                                </u>				FAC species $\underline{\qquad}$ $x_3 = \underline{\qquad}$
2				FACU species $73$ $x 4 = 300$
3.				UPL species $20$ x 5 = $100$
4				Column Totals:95 (A)(B)
			·	
0				Prevalence Index = B/A =4.21
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9				
	0	Total Caura		3 - Prevalence Index is ≤3.0 <sup>1</sup>
E0% of total covery	200/ of		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% 01	total cover:	-	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Phieum pratense	30	Yes	FACU	
2. Dactylis glomerata	30	Yes	FACU	1
<sub>3.</sub> Leucanthemum vulgare	20	Yes	UPL	Indicators of hydric soil and wetland hydrology must
A Trifolium pratense	15	No	FACU	be present, unless disturbed of problematic.
			·	Definitions of Four Vegetation Strata:
o			<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				
9.				<b>Sapling/Snrub</b> – Woody plants, excluding vines, less than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10			·	,
11	05			Herb – All herbaceous (non-woody) plants, regardless
47.0	90	= Total Cove	r 10	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:	19	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				
2				
3				
4		<u> </u>	. <u> </u>	Hydrophytic
5			. <u> </u>	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	heet.)			1
	,			

Profile Desc	cription: (Describe te	o the depth r	needed to docum	nent the in	ndicator	or confirm	the absence of in	dicato	rs.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	<u> </u>
0-10	10YR 4/4	100					SCL			
10-12	2.5Y 5/4						SCL			
					·					
	·									
						·				
·				. <u> </u>						
						. <u></u>				
17			de a di Martaire - NAC		0		21			
Type: C=C	Indicators:	etion, RIVI=Re	duced Matrix, Ma	S=IVIasked	Sand Gra	ains.	Location: PL=Po	for Pr	ng, M=Matrix	vdric Soils <sup>3</sup> :
Listoool			Dorle Curfooo	(07)						4 47)
Histosol	(AI) ninadan (A2)	-	Dark Surface	(37) Iow Surfor	00 (S9) /M		149) Coost	NUCK (P	Rodov (A16	147)
Black H	istic ( $\Delta 3$ )	-	Folyvalue Be	rface (SQ)	(MIRA 1	47 148)	(MI		7 148)	)
Hydroge	en Sulfide (A4)	-	L oamy Gleve	d Matrix (F	( <b>111</b> E ( <b>2</b> )	47, 140)	Piedm	ont Flo	odolain Soils	s (F19)
Stratifie	d Lavers (A5)	-	Depleted Mat	trix (F3)	_/		<u>(ML</u>	RA 13	6. 147)	( )
2 cm Mi	uck (A10) (LRR N)	-	Redox Dark S	Surface (F	6)		Very S	Shallow	Dark Surfac	e (TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Other	(Explai	n in Remarks	s)
Thick D	ark Surface (A12)	-	Redox Depre	ssions (F8	3)					
Sandy M	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	_RR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy C	Gleyed Matrix (S4)	-	Umbric Surfa	ce (F13) <b>(</b> I	MLRA 13	6, 122)	<sup>3</sup> Indicator	rs of hy	drophytic ve	getation and
Sandy F	Redox (S5)	-	Piedmont Flo	odplain So	oils (F19)	(MLRA 14	B) wetland	hydrol	ogy must be	present,
Stripped	Matrix (S6)	-	Red Parent N	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	unless o	disturbe	ed or problen	natic.
Restrictive	Layer (if observed):									
Туре:			_							
Depth (in	ches):		_				Hydric Soil Pres	sent?	Yes	No
Remarks:							1			



Photo 1 Upland data point WUPB006\_u facing north



**Photo 2** Upland data point WUPB006\_u facing east

Project/Site: SERP	City/County: Upshur	Sampling Date: 6/26	6/2014
Applicant/Owner: Dominion	St	ate: <u>WV</u> Sampling Point: <u>V</u>	VUPB007e_w
Investigator(s): TP	_ Section, Township, Range: No PLS	S in this Area	
Landform (hillslope, terrace, etc.): drainageway	ocal relief (concave, convex, none):	concave Slope (	%): <u>2</u>
Subregion (LRR or MLRA): N Lat: 38.94353648	Long: <u>-80.2531</u>	1927 Datum: V	VGS 1984
Soil Map Unit Name: Monongahela silt loam, 3 to 8 percent slopes		NWI classification: None	
Are climatic / hydrologic conditions on the site typical for this time of y	vear? Yes 🖌 No (If no	, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circ	umstances" present? Yes	No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, expla	n any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations,	transects, important feat	ures, 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 is located in a drainagway that fl	ows into Cutrig	ht Run			

wettand hydrology mulcators.	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 <u></u>	
Water Table Present?       Yes	Wetland Hydrology Present? Yes <u>/</u> No

Sampling Point: WUPB007e\_w

	Abcoluto	- Dominant li	adicator	Dominanco Tost workshoot:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	
				Number of Dominant Species
<sup>1</sup>		- <u> </u>	·	
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				()
-		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6		<u></u>		
7.				Prevalence Index worksheet:
	0	Tetal Cause		Total % Cover of: Multiply by:
			r O	OBI species $50 \times 1 = 50$
50% of total cover:	20% of	total cover:	0	
Sapling/Shrub Stratum (Plot size: 15 )				FACW species $x^2 = \frac{30}{45}$
1.				FAC species $15$ x 3 = $45$
		·		FACU species $0   x 4 = 0$
Z		·	·	
3				UPL species $x_5 = \frac{110}{195}$
4.				Column Totals: (A) (B)
		·		
5		- <u> </u>	. <u> </u>	Prevalence Index = $B/A = 1.68$
6				Hydrophytic Vegetation Indicators:
7.				
		·	·	1 - Rapid Test for Hydrophytic Vegetation
8		·	<u> </u>	2 - Dominance Test is >50%
9				$\checkmark$ 3 - Prevalence Index is <3.0 <sup>1</sup>
	0	= Total Cove	r	
50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations' (Provide supporting
50% of total cover.	20 /0 01			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Phalaris arundinacea	45	Yes	FACW	
2 Carex vulpinoidea	25	Yes	OBL	
<ul> <li>Scirnus atrovirens</li> </ul>	25	Ves	OBI	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	2.5			be present, unless disturbed or problematic.
4. Juncus tenuis	15	No	FAC	Definitions of Four Vegetation Strata:
5				Deminions of Four Vegetation officia.
		. <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		<u></u>		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 borbassaus (non weady) plants, regardless
	110		r	of size, and woody plants less than 3.28 ft tall
50% of total array 55	000/ -1		22	
50% of total cover:	20% 01	total cover:		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1.				
2		·		
3				
4.				
5				Hydrophytic
<sup>3.</sup>		·	·	Prosent2 Vos V
	0	= Total Cove	r	
50% of total cover:0	20% of	f total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
······································	,			

Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remar         0-12       10 YR 4/1       95       10YR 4/6       5       C       PL       CL	Redox Features	
0-12       10 YR 4/1       95       10 YR 4/6       5       C       PL       CL	6 Color (moist) % Type <sup>1</sup> Loc <sup>2</sup> Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Mat         tydric Soil Indicators:       Indicators for Problematic         Histosol (A1)	15 10YR 4/6 5 C PL CL	
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Mat         Hydric Soil Indicators:       Indicators for Problematic         Histosol (A1)		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Mater Indicators for Problematice Indicators for Problematice (S7)		
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Mat         lydric Soil Indicators:       Indicators for Problematic		
Hydric Soil Indicators:       Indicators for Problematic         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLR         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       Coast Prairie Redox (A         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Sc         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 Rema         Thick Dark Surface (A12)       Redox Depressions (F8)       Other (Explain in Rema         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       MLRA 136)	, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore	ore Lining, M=Matrix.
	Dark Surface (S7)       2 cm Mu         Polyvalue Below Surface (S8) (MLRA 147, 148)       Coast Pi         Thin Dark Surface (S9) (MLRA 147, 148)       (MLR         Loamy Gleyed Matrix (F2)       Piedmor          ✓       Depleted Matrix (F3)       (MLR         Redox Dark Surface (F6)       Very Shi         1)       Depleted Dark Surface (F7)       Other (E         Redox Depressions (F8)          N,       Iron-Manganese Masses (F12) (LRR N,	Vluck (A10) <b>(MLRA 147)</b> Prairie Redox (A16) <b>.RA 147, 148)</b> nont Floodplain Soils (F19) <b>.RA 136, 147)</b> Shallow Dark Surface (TF12) (Explain in Remarks)
_ Sandy Gleyed Matrix (S4)       _ Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic         _ Sandy Redox (S5)       _ Piedmont Floodplain Soils (F19) (MLRA 148)       wetland hydrology must l         _ Stripped Matrix (S6)       _ Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problemation	Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators        Piedmont Floodplain Soils (F19) (MLRA 148)       wetland h        Red Parent Material (F21) (MLRA 127, 147)       unless dist	rs of hydrophytic vegetation and I hydrology must be present, disturbed or problematic.
testrictive Layer (if observed):		
Туре:		
Depth (inches): Yes	Hydric Soil Prese	sent? Yes 🖌 No _
Remarks:		



Photo 1 Wetland data point WUPB007e\_w facing south



Photo 2 Wetland data point WUPB007e\_w facing west

Project/Site: SERP		_ City/County: Upshu	r	Sampling Date: 6/26/2014
Applicant/Owner: Dominion			State: WV	_ Sampling Point: WUPB007_u
Investigator(s): TP		Section, Township,	Range: No PLSS in this Area	
Landform (hillslope, terrace, etc.): hi	illslope I	Local relief (concave, c	convex, none): <u>none</u>	Slope (%): <u>10</u>
Subregion (LRR or MLRA): N	Lat: <u>38.94363514</u>	4 I	Long: <u>-80.25293236</u>	Datum: WGS 1984
Soil Map Unit Name: Monongahela	silt loam, 3 to 8 percent slopes		NWI classifica	ation: None
Are climatic / hydrologic conditions c	on the site typical for this time of	year? Yes 🔽 No	o (If no, explain in Re	emarks.)
Are Vegetation, Soil,	or Hydrology significan	tly disturbed? A	re "Normal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil,	or Hydrology naturally	problematic? (I	f 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 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 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 Concern Present? Yes Performed Present? Ves Performed Present? Performed Pata (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 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:       Remarks:	Wetland Hydrology Present? Yes No
Saturation Present? Yes No <u>V</u> 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 _       ✓ 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:	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: WUPB007\_u

, <i>,</i>	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: 0 (A)
2		·		
2		·	·	Total Number of Dominant
3		·	·	Species Across All Strata: (B)
4			<u> </u>	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6.				
7				Prevalence Index worksheet:
	0	- Total Cova		Total % Cover of: Multiply by:
E0% of total any art			0	OBL species $0   x 1 = 0$
	20% 0	total cover.		EACW species $0$ x 2 = $0$
Sapling/Shrub Stratum (Plot size:)				
1		. <u> </u>		FAC species $x_3 = 380$
2				FACU species $42$ x 4 = $500$
3.				UPL species $10 \times 5 = 50$
4				Column Totals:(A)(B)
5		·		
0				Prevalence Index = $B/A = 4.09$
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		. <u> </u>		2 Dominoneo Testio - 50%
9				
	0	- Total Cova		3 - Prevalence Index is ≤3.0'
E0% of total approx	20% of		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% 0	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	40			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Dactylis giomerata	40	Yes	FACU	
2. Phleum pratense	40	Yes	FACU	1
3. Trifolium pratense	15	No	FACU	Indicators of hydric soil and wetland hydrology must
∠ Leucanthemum vulgare	10	No	UPL	be present, unless disturbed of problematic.
		·	·	Definitions of Four Vegetation Strata:
o		·	······	<b>Tree</b> – Woody plants, excluding vines 3 in (7.6 cm) or
6		·		more in diameter at breast height (DBH), regardless of
7		. <u></u>		height.
8				
9.				than 3 in DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10		· · · · · · · · · · · · · · · · · · ·	·	,
11	105	·		Herb – All herbaceous (non-woody) plants, regardless
50.5	105	= Total Cove	r Od	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>52.5</u>	20% of	total cover:	21	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1				
2				
3				
		·		
4		·	. <u> </u>	Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes No ·
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
	,			

Profile Des	cription: (Describe t	o the depth	needed to docur	nent the in	ndicator	or confirm	the absence of ir	dicato	ors.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/4	100					SCL			
							<u> </u>			
							<u> </u>			
							<u> </u>			
<sup>1</sup> Type: C=C	Concentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=Pc	ore Lini	ng, M=Matrix	
Hydric Soil	Indicators:						Indicators	for Pr	oblematic H	ydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	e (S7)			2 cm I	Muck (A	10) <b>(MLRA</b> '	147)
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147,	148) Coast	Prairie	Redox (A16)	1
Black H	listic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(ML	.RA 14	7, 148)	
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)		Piedm	ont Flo	odplain Soils	(F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)			(ML	.RA 13	6, 147)	
2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F6	5)		Very S	Shallow	Dark Surface	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dai	k Surface	(F7)		Other	(Explai	n in Remarks	5)
Thick D	ark Surface (A12)		Redox Depre	essions (F8	5) (F40) (1					
Sandy r	VIUCKY IVIINERAI (S1) (L	RR N,	Iron-Iviangan	ese Masse	s (F12) (	LRR N,				
	A 147, 148)		WILRA 13	0) (512) (1		6 400)	<sup>3</sup> Indianta	ro of h	draphyticyce	actation and
Sandy C	Bieyeu Matrix (54)		Unblic Suna	ice (F13) <b>(</b> 1 adalain Sa		0, 122) /MI DA 44		is oi ny	arophytic ve	present
Sanuy i	d Matrix (S6)		Pleumont Pic	Antorial (E2	01) <b>(MI P</b>	(IVIERA 14) A 197 1/7		dicturb	ed or problem	present,
Sinpped	Laver (if observed):					A 127, 147		uistuib		
Turney	Layer (il Observed).									
iype:										
Depth (in	iches):						Hydric Soil Pres	sent?	Yes	NO
Remarks:										



**Photo 1** Upland data point WUPB007\_u facing east



Photo 2 Upland data point WUPB007\_u facing north

Project/Site: Atlantic Coast Pipeline	City/County: Up	oshur County	_ Sampling Date: <u>6/7/2016</u>
Applicant/Owner: Dominion		State: WV	Sampling Point: wupe001e_w
Investigator(s): CG, SA	Section, Towns	hip, Range: No PLSS in this are	a
Landform (hillslope, terrace, etc.): depression	Local relief (conca	ve, convex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.9</u>	3791018	Long: <u>-80.25490385</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 15 to 25 percent slope	es	NWI classif	ication: PEM
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	_ No (If no, explain in I	Remarks.)
Are Vegetation, Soil 🖌 , or Hydrology 🖌 si	gnificantly disturbed?	Are "Normal Circumstances"	present? Yes No _
Are Vegetation, Soil, or Hydrology na	aturally problematic?	(If needed, explain any answ	ers in Remarks.)
CLIMMARY OF FINDINGS Attach site man	howing compling n	aint logations 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 _ Yes _ Yes _	ン ン ン	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:						
Excavated depression						

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)	<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>
✓ High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
✓ Saturation (A3) Oxidized Rhizospheres on Living Ro	oots (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	s (C6) <u> Crayfish Burrows (C8)</u>
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 <u></u>	
Water Table Present? Yes <u>Ves</u> No <u>Depth</u> (inches): <u>12</u>	
Saturation Present? Yes <u>V</u> No Depth (inches): 0	Wetland Hydrology Present? Yes <u>/</u> No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectio	ons), if available:
Pemarke:	

Sampling Point: <u>wupe001e\_w</u>

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:1 (A)
2				
2		·		Total Number of Dominant
		· · · · · · · · · · · · · · · · · · ·		Species Across All Strata: (B)
4		·	. <u> </u>	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:
		= Total Cove	r O	OBI species $70$ x 1 = $70$
50% of total cover:	20% of	total cover:	<u> </u>	$\frac{12}{12} = \frac{24}{24}$
Sapling/Shrub Stratum (Plot size: 13 )				FACW species $x_2 = 0$
1. none	0			FAC species $0 \times 3 = 0$
2				FACU species $0   x 4 = 0$
	-	·		UPL species $0 \times 5 = 0$
3		·	<u> </u>	$\frac{82}{100} = \frac{100}{94} $
4		·		Column Totals (A) (B)
5		<u></u>		Provalance Index = P/A = 1.14
6				
7				Hydrophytic Vegetation Indicators:
1		·		1 - Rapid Test for Hydrophytic Vegetation
8		·		✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Drevelence index is <2.0 <sup>1</sup>
	0	= Total Cove	r	$\sim$ 3 - Prevalence index is $\leq 3.0$
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations' (Provide supporting
Uset Obstance (Platicize 5	20 /0 01			data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	70			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Leersia oryzoides	70	Yes	OBL	
2. Juncus effusus	10	No	FACW	1
3. Salix interior	2	No	FACW	Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
4		·	<u> </u>	Definitions of Four Vegetation Strata:
5		·		Tree Mandy planta avaluding vince 2 in (7.6 am) or
6				more in diameter at breast height (DBH) regardless of
7.				height.
8				
0				Sapling/Shrub – Woody plants, excluding vines, less
9		·	·	than 3 in. DBH and greater than or equal to 3.28 ft (1
10		·		m) tall.
11				Herb – All berbaceous (non-woody) plants regardless
	82	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 41	20% of	total cover:	16.4	
Weady Vina Stratum (Blot aiza: 30 )				Woody vine – All woody vines greater than 3.28 ft in
	0			height.
1. <u></u>	0	·	. <u> </u>	
2				
3.				
4				
		·		Hydrophytic
5		·		Vegetation
	0	= Total Cove	r	Present? Yes No No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			1
	,			

Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	7.5YR 6/2	60	7.5YR 5/8	40	C	М	CL	
							<u> </u>	
Type: C=C	Concentration D=Dep	letion RM	=Reduced Matrix M	S=Masker	Sand Gra	ains	<sup>2</sup> Location: PL=Por	e Lining M=Matrix
lydric Soil	Indicators:			•			Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histoso	bl (A1)		Dark Surface	e (S7)			2 cm M	uck (A10) <b>(MLRA 147)</b>
Histic E	Epipedon (A2)		Polyvalue Be	elow Surfa	ce (S8) <b>(N</b>	ILRA 147.	148) Coast F	Prairie Redox (A16)
Black H	listic (A3)		Thin Dark Si	urface (S9)	) (MLRA 1	47. 148)	(MLF	RA 147, 148)
Hydrog	en Sulfide (A4)		Loamy Gleve	ed Matrix (	( <u>-</u> F2)	,,	Piedmo	ont Floodolain Soils (F19)
Stratifie	ad Lavers ( $\Delta 5$ )		✓ Depleted Ma	triv (F3)	/		(MLF	<b>2 A 136 147</b> )
2 cm M	luck (A10) <b>(I RR N)</b>		Redox Dark	Surface (F	6)		Verv SI	nallow Dark Surface (TE12)
2 cm w	ad Below Dark Surfac	ο (Δ11)	Neulor Dark	rk Surface	0) (E7)		Very Si	Explain in Remarks)
Depiete	ork Surfood (A12)	= (ATT)	Depieted Da		o)			
THICK L	Muslu Minerel (C1)				0) aa (540) (1			
_ Sandy		.RR N,	Iron-Mangar	ese mass	es (F12) (	LRR N,		
MLR	(A 147, 148)		MLRA 13	6)			3	
Sandy	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (	(MLRA 13	6, 122)	Indicator	s of hydrophytic vegetation and
Sandy	Redox (S5)		Piedmont Fl	podplain S	oils (F19)	(MLRA 14	<b>8)</b> wetland	hydrology must be present,
Strippe	d Matrix (S6)		Red Parent	Material (F	21) <b>(MLR</b>	A 127, 147	7) unless d	isturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes 🖌 No
Remarks:							•	



Wetland data point wupe001e\_w facing north



Wetland data point wupe001e\_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Up	pshur County	Sampling Date: 6/7/2016
Applicant/Owner: Dominion		State: WV	_ Sampling Point: <u>wupe001_</u> u
Investigator(s): CG, SA	Section, Towns	ship, Range: No PLSS in this area	
Landform (hillslope, terrace, etc.): hillslope	Local relief (conca	ve, convex, none): <u>convex</u>	Slope (%): <u>15</u>
Subregion (LRR or MLRA): <u>N</u> Lat: <u>38.937</u>	794108	Long: <u>-80.25477355</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 15 to 25 percent slopes		NWI classifica	ation: UPL
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes	_ No (If no, explain in Re	emarks.)
Are Vegetation 🖌 , Soil, or Hydrology sigr	nificantly disturbed?	Are "Normal Circumstances" pr	resent? Yes No _
Are Vegetation, Soil, or Hydrology nate	urally 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 Yes Yes	No <u></u> No_	<u>v</u> v v	Is the Sampled Area within a Wetland?	Yes	No	<u>v</u>
Remarks:							
Pasture							

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	g 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 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 <u></u>	
Water Table Present? Yes No <u>r</u> Depth (inches):	
Water Table Present?       Yes No _        Depth (inches):         Saturation Present?       Yes No _        Depth (inches):         (includes capillary fringe)       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)       Mo 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)       Mo Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe         Remarks:	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Depth (inches):       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:       No hydrology 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 inspe         Remarks:         No hydrology 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 inspe         Remarks:         No hydrology 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 inspe         Remarks:         No hydrology 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 inspe         Remarks:         No hydrology 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 inspe         Remarks:         No hydrology present	Wetland Hydrology Present? Yes No
Water Table Present?       Yes No _       Depth (inches):         Saturation Present?       Yes No _       Depth (inches):         (includes capillary fringe)       Depth (inches):       Depth (inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe       Remarks:         No hydrology present       No hydrology 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 inspe         Remarks:       No hydrology 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 inspe         Remarks:       No hydrology 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 inspe         Remarks:       No hydrology present	Wetland Hydrology Present? Yes No

Sampling Point: wupe001\_u

		Absoluto	- Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30	% Cover	Species?	Status	Dominance rest worksheet.
	,	0	<u></u>	Olalao	Number of Dominant Species
1. <u></u>			·		That Are OBL, FACW, of FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata:3 (B)
4.					
5					Percent of Dominant Species
			·		That Are OBL, FACW, or FAC: (A/B)
6			·		Brovalanca Index workshoot:
7					
		0	= Total Cove	r	I otal % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =
Sanling/Shrub Stratum (Plot si	15				FACW species $0$ x 2 = $0$
		٥			$EAC$ species $0$ $x_3 = 0$
1. <u>1011e</u>		0	· . <u></u>		$55 \times 10^{-220}$
2					FACU species $x 4 = \frac{15}{75}$
3.					UPL species $15$ x 5 = $75$
4					Column Totals:(A)(B)
			·		
5			·		Prevalence Index = $B/A = 4.21$
6					Hydrophytic Vegetation Indicators:
7					A Deald Test (as the learner to ) (a set of a
8					1 - Rapid Test for Hydrophytic Vegetation
0			·		2 - Dominance Test is >50%
9			·		3 - Prevalence Index is ≤3.0 <sup>1</sup>
		0	= Total Cove	er o	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	50% of total cover: 0	20% of	total cover:	0	dete in Remarka er en e generate sheet)
Herb Stratum (Plot size:	5)				
1 Anthoxanthum odoratum		40	Yes	FACU	Problematic Hydrophytic Vegetation' (Explain)
<ul> <li>Potentilla canadensis</li> </ul>		15	Yes		
Z. Plantaga lanagalata		15	<u> </u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Plantago lanceolata		15	res	UPL	be present, unless disturbed or problematic.
4. Rumex hastatulus		10	No	FACU	Definitions of Four Vegetation Strata:
5. Taraxacum officinale		5	No	FACU	Dominiono of Four Vogotation official
6					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
-			·		more in diameter at breast height (DBH), regardless of
7			·		height.
8					Sanling/Shruh - Woody plants, excluding vines, less
9					than 3 in. DBH and greater than or equal to 3.28 ft (1
10					m) tall.
		-			
		05			Herb – All herbaceous (non-woody) plants, regardless
	10	C0	= Total Cove	er .	of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 42.5	20% of	total cover:	17	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size	:30)				height.
1 none		0			- Holgha
2			· · · · · · · · · · · · · · · · · · ·		
Z			·		
3			·		
4					Hydrophytic
5.					Vegetation
		0		r	Present? Yes No
	50% of total approx	200/ of		0	
		20% 01	total cover.		
Remarks: (Include photo numb	ers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	o the depth	n needed to docun	nent the i	ndicator o	or confirm	the absence of	indicators.)	
Depth	Matrix		Redo	x Features	3				
(inches)	Color (moist)		Color (moist)	%	Type'	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-12	10YR 3/2	100					CL		
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix	
Hydric Soil	Indicators:						Indicato	rs for Problematic H	ydric Soils <sup>3</sup> :
<u> </u>	(A1)		Dark Surface	(S7)			2 cn	n Muck (A10) <b>(MLRA</b> <sup>·</sup>	147)
Histic E	pipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(M</b>	ILRA 147,	148) Coa	st Prairie Redox (A16)	)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)	(N	/ILRA 147, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		Piec	Imont Floodplain Soils	s (F19)
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)			(N	/ILRA 136, 147)	
2 cm Mu	uck (A10) <b>(LRR N)</b>		Redox Dark \$	Surface (F	6)		Very	/ Shallow Dark Surfact	e (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Dar	k Surface	(F7)		Othe	er (Explain in Remarks	5)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)				
Sandy N	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	_RR N,			
MLR	A 147, 148)		MLRA 13	6)			3		
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	MLRA 13	6, 122)	Indica	tors of hydrophytic ve	getation and
Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	8) wetla	nd hydrology must be	present,
Stripped	Matrix (S6)		Red Parent N	laterial (F2	21) (MLR	A 127, 147	) unles	s disturbed or problem	natic.
Restrictive	Layer (If observed):								
Туре:									
Depth (in	ches):						Hydric Soil Pr	esent? Yes	No 🔽
Remarks:							•		



Upland data point wupe001\_u facing north



Upland data point wupe001\_u facing south

Project/Site: SERP	City/County: Ut	oshur	_ Sampling Date: <u>6/26/2014</u>
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA007e_W
Investigator(s): GB, LE	Section, Towns	hip, Range: No PLSS in this Are	ea
Landform (hillslope, terrace, etc.): FLOODPI	LAIN Local relief (conca	ve, convex, none): <u>none</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.92922347</u>	Long: <u>-80.24916318</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest	very stony silt loams, 15 to 25 percent slop	oes NWI classif	ication: None
Are climatic / hydrologic conditions on the sit	e typical for this time of year? Yes	_ No (If no, explain in	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 answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attac	h site map showing sampling p	oint 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 🖌 N	o
Remarks: Wetland data point for a saturated PEM	wetland	on the	floodplain of a smal	l perennial stream (SUPA006)	; upstream of a culv	rert crossing

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       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 inspect	Wetland Hydrology Present? Yes <u>V</u> No tions), if available:
Remarks:	
culvert obstruction contributes to hydrology	

Sampling Point: WUPA007e\_W

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL FACW or FAC: $5$ (A)
··	-	·		
Z		·		Total Number of Dominant
3	. <u> </u>	·		Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species
	-	·		That Are OBL, FACW, or FAC:(A/B)
b		·		Prevalence Index worksheet
7				
	0	= Total Cove	r	
50% of total cover: 0	20% of	total cover:	0	OBL species $45$ x 1 = $45$
Sapling/Shrub Stratum (Plot size: 15				FACW species $47$ x 2 = $94$
Bubus leucodermis	4	No		EAC species 15 x 3 - 45
	4			
2. Salix nigra	3	Yes	OBL	FACU species $2 \times 4 = 0$
3 Rosa multiflora	2	Yes	FACU	UPL species $0 x 5 = 0$
				Column Totals: 109 (A) 192 (B)
4		·		
5				Prevalence index $= B/A = 1.76$
6.				
7				Hydrophytic Vegetation Indicators:
/·		·		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				$\checkmark$ 2. Drawalance index is <2.0 <sup>1</sup>
	9	- Total Cove	r	
50% of total covor: 4.5	20% of		1.8	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover.	20% 01	total cover.		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex lupulina	20	Yes	OBL	
2. Dichanthelium clandestinum	15	Yes	FAC	
Juncus effusus	15	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Caray abarakaansia	14	Vaa		be present, unless disturbed or problematic.
4. Carex cherokeensis	14	res	FACW	Definitions of Four Vegetation Strata:
5. Carex vulpinoidea	12	No	OBL	
6 Sparganium americanum	10	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
- Impatiens capensis	10	No	FACW	more in diameter at breast height (DBH), regardless of
			54.014	neight.
8. Osmundastrum cinnamomeum	8	NO	FACW	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.
		·		
11		·		Herb – All herbaceous (non-woody) plants, regardless
	104	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52	20% of	total cover:	20.8	
Woody Vine Stratum (Plot size: 30)		_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				neight.
1		·		
2				
3.				
A				
4		·		Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes <u>Ves</u> No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a senarate s	heet )			
Remarks. (include photo numbers here of on a separate s	neet.)			

Profile Desc	cription: (Describe t	o the dep	oth needed to docur	nent the i	ndicator	or confirm	the absence of in	ndicators.)
Depth	Matrix		Redo	x Features	6			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18	7.5YR 4/1	60	7.5YR 4/6	10	С	PL/M	COSL	
	7.5YR5/1	30					COSL	
				·······			·	
<u> </u>								
			·					
						·		
	·							
<sup>1</sup> T			Deduced Metrice M				<sup>2</sup> l a satismu DI Di	and Linian DA Matrix
	Indicators:	etion, Rivi	=Reduced Matrix, Ma	S=IVIASKed	Sand Gra	ains.		ore Lining, M=Matrix.
Listood			Dark Surfage	(07)				
Histosol	(A1)		Dark Surface	e (57) Janu Cunta			2 cm	Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	Now Surra	Ce (58) (IV	ILRA 147,	148) <u>Coast</u>	
	ISTIC (A3)			Inace (59)		47, 148)	(IVII Dia dat	LRA 147, 148) nant Electric Cails (E40)
Hydroge	en Sulfide (A4)		Loamy Gleye		-2)			
Stratified	D Layers (A5)		Depleted Ma	trix (F3) Omr(and /E	0)		(IVI)	LRA[136, 147]
	JCK (A10) (LRR N)	( )	Redox Dark	Surface (F	6) (F7)		very s	Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dal	rk Surface	(F7)		Other	(Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre		3)			
Sandy N	/lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,		
MLRA	A 147, 148)		MLRA 13	6)		0 400	31	and a film the state of a state of a state of a
Sandy G	Bieyed Matrix (54)		Umbric Surra	ice (F13) <b>(</b>		0,122) /MIDA 44		d bydrology must be present
Sanuy P	(edux (SS) Matrix (S6)		Fleamont Fit	Natorial (F	21) <b>(MI P</b>	(IVIERA 14) A 127 1/7		disturbed or problematic
Restrictive	Laver (if observed):					~ 127, 147		
Type:								
Depth (in	ches):						Hydric Soil Bro	sent? Ves 🗸 No
Deptil (III	cnes).						Thyunc Son The	
Remarks:								



Photo 1 Wetland data point WUPA007e\_w facing west



Photo 2 Wetland data point WUPA007e\_w facing east

Project/Site: SERP		City/County: Upsh	nur	Sampling Date: 6/26/2014
Applicant/Owner: DOMINION			State: WV	Sampling Point: WUPA007_U
Investigator(s): GB, LE		Section, Township	o, Range: No PLSS in this Are	а
Landform (hillslope, terrace, etc.): TO	DE OF SLOPE	Local relief (concave	convex, none): <u>none</u>	Slope (%): <u>6</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: 38.929264	103	Long: -80.24918381	Datum: WGS 1984
Soil Map Unit Name: Buchanan and E	Ernest very stony silt loams,	15 to 25 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, c	or Hydrology signific	antly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, c	or Hydrology natural	y problematic?	(If needed, explain any answe	ers in Remarks.)
	Attack alta man akan			· ····································

#### 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	ン ン ン	Is the Sampled Area within a Wetland?	Yes	No	<u>~</u>
Remarks:							
Upland data point at the toe of slope just	st above a floopl	ain wet	land				

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	<ul> <li>Surface Soil Cracks (B6)</li> <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?       YesNo _       Depth (inches):	Wetland Hydrology Present? Yes No ions), if available:

Sampling Point: WUPA007\_U

		<b>1</b>		1 0
	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	<u>Species</u> ?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: 4 (B)
1				
- T		- <u> </u>		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Dravalan oo la dax 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 x 1 =0
Sopling/Shrub Stratum (Blot aiza: 15				FACW species $0$ x 2 = $0$
				$FAC$ species $\frac{18}{18}$ $x_3 = \frac{54}{54}$
1				$76 \times 324$
2		. <u> </u>		FACU species $x 4 = 50$
3.				UPL species $10 \times 5 = 50$
4				Column Totals: (A) (B)
<u></u>		·		··· ( )
0				Prevalence Index = B/A =3.92
6		. <u> </u>		Hydrophytic Vegetation Indicators:
7				1 Popid Test for Hydrophytic Vegetation
8				
0				2 - Dominance Test is >50%
9	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
0		= Total Cove	er O	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	f total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 )				
<sub>1.</sub> Dactylis glomerata	25	Yes	FACU	Problematic Hydrophytic Vegetation (Explain)
2 Apocynum cannabinum	20	Yes	FACU	
o Phleum pratense	12	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	40			be present, unless disturbed or problematic.
4. Asciepias syriaca	12	res	FACU	Definitions of Four Vegetation Strata:
5. Solidago arguta	10	No	UPL	
6. Verbesina alternifolia	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
<ul> <li>Dichanthelium clandestinum</li> </ul>	8	No	FAC	more in diameter at breast height (DBH), regardless of
Achillea millefolium	7	No	FACIL	neight.
8. Actimica millicionam	·/		1700	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.				
	104	Total Cava		<b>Herb</b> – All nerbaceous (non-woody) plants, regardless
50% of total answer 52	000/ -		20.8	or size, and woody plants less than 5.20 it tall.
50% of total cover:	20% 0	r total cover:	20.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 50 )				height.
1		<u> </u>		
2.				
3				
3		<u> </u>		
4				Hydrophytic
5		. <u> </u>		Vegetation
	0	= Total Cove	r	Present? Yes No V
50% of total cover: 0	20% of	f total cover:	0	
Remarks: (Include photo numbers here or on a separate s	hoot )			
	neet.)			

Profile Desc	cription: (Describe to	the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redo	x Features	S1	. 2			- ·	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type	Loc			Remarks	
0-18	7.51R 4/4	100					SCL			
·										
1										
					. <u> </u>					
<sup>1</sup> Type: C=C	oncentration. D=Deple	tion. RM=R	educed Matrix. MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL	=Pore Linir	na. M=Matrix.	
Hydric Soil	Indicators:		, , ,				Indica	tors for Pr	oblematic Hy	dric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	(10) (MLRA 14	7)
Histic Er	pipedon (A2)		Polvvalue Be	low Surfac	ce (S8) <b>(M</b>	LRA 147.	148) Co	ast Prairie	Redox (A16)	,
Black Hi	istic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14)	7, 148)	
Hydroge	en Sulfide (A4)		Loamy Gleve	d Matrix (F	, F2)		Pi	、 edmont Flo	odplain Soils (	F19)
Stratified	d Layers (A5)		Depleted Mar	trix (F3)	,			(MLRA 13	6, 147)	,
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Ve	ery Shallow	Dark Surface	(TF12)
Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Ot	her (Explai	n in Remarks)	
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)					
Sandy N	/lucky Mineral (S1) (Lf	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	RR N,				
MLR	A 147, 148)		MLRA 13	6)						
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b> I	MLRA 13	6, 122)	<sup>3</sup> Indi	cators of hy	drophytic vege	etation and
Sandy F	Redox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 148	<b>8)</b> wet	land hydrol	ogy must be p	resent,
Stripped	Matrix (S6)		Red Parent N	Aaterial (F2	21) <b>(MLR</b>	A 127, 147	) unle	ess disturbe	ed or problema	tic.
Restrictive	Layer (if observed):									
Type: no	ne									
Depth (in	ches):		_				Hydric Soil	Present?	Yes	No 🖌
Remarks:							1			
1										



Photo 1 Upland data point WUPA007\_u facing west



Photo 2 Upland data point WUPA007\_u facing east
## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: SERP	City/County: Upsh	ur	_ Sampling Date: <u>6/26/2014</u>
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA008e_W
Investigator(s):	Section, Township	, Range: No PLSS in this Are	ea
Landform (hillslope, terrace, etc.): SWALE	Local relief (concave,	convex, none): <u>concave</u>	Slope (%): <u>4</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: 38.92642844	Long: <u>-80.24435537</u>	Datum: WGS 1984
Soil Map Unit Name: Buchanan and Ernest ve	ry stony silt loams, 15 to 25 percent slopes	NWI classif	ication: None
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes N	lo (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrol	ogy significantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No
Are Vegetation, Soil, or Hydrol	ogy naturally problematic? (	If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point	nt locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes 🖌 Yes 🖌 Yes 🖌	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks:					
Data point for a saturated PEM wetland w	within a wet sw	vale at the headwate	rs of an intermittent stream, a	rea has been loo	gged.

#### 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>Hydrogen Sulfide Odor (C1)</li> <li>Saturation (A3)</li> <li>Oxidized Rhizospheres on Living Ro</li> <li>Water Marks (B1)</li> <li>Presence of Reduced Iron (C4)</li> <li>Sediment Deposits (B2)</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>/</u> No Depth (inches): 7	
Saturation Present? Yes <u>V</u> No Depth (inches): <u>5</u> (includes capillary fringe)	Vetland Hydrology Present? Yes 🖌 No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ns), if available:
Remarks	
Remarks: stream and two headwater seeps within boundary	
Remarks: stream and two headwater seeps within boundary	
Remarks: stream and two headwater seeps within boundary	
Remarks: stream and two headwater seeps within boundary	
Remarks: stream and two headwater seeps within boundary	
Remarks: stream and two headwater seeps within boundary	

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

Sampling Point: WUPA008e\_W

. ,		- 		
Tree Stratum (Blat size: 30)	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	<u>% Cover</u>	<u>Species</u> ?	EACU	Number of Dominant Species
1. Liriodendron tulipitera	4	res	TACU	That Are OBL, FACW, or FAC: 8 (A)
2 Nyssa sylvatica	3	Yes	FAC	
<ul> <li>Betula lenta</li> </ul>	2	Yes	FACU	Total Number of Dominant
3				Species Across All Strata: (B)
4				Demonst of Dominant Species
5.				That Are OBL EACW/ or EAC $66.6666666666666666666666666666666666$
6				
0				Prevalence Index worksheet
7				
	9	= Total Cove	er	I otal % Cover of:Multiply by:
50% of total cover: 4.5	20% of	total cover:	1.8	OBL species18 x 1 =18
Carling/Chruh Chature (Distained 15		1010. 00101.		FACW species $48$ x 2 = $96$
Sapling/Shrub Stratum (Plot size:)	_	Maa	FAOL	$\frac{35}{105}$
1. Rubus allegneniensis	5	Yes	FACU	FAC species $x_3 = 112$
<sub>2.</sub> Nyssa sylvatica	4	Yes	FAC	FACU species $20$ x 4 = $112$
2 Rosa multiflora	3	Yes	FACU	UPL species $0   x 5 = 0$
з. <u></u>				Column Totolo: $129$ (A) $331$ (B)
4				
5.				Drugh and Julius D/A 256
6				Prevalence index = $B/A = 2.30$
-				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				V 0 Deminentes Testis 50%
	12			Y 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Â	:	= Total Cove	er 2⊿	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 6	20% of	total cover:	2.4	data in Romarks or on a concrate sheet)
Herb Stratum (Plot size: 5)				
1 Dichanthelium clandestinum	20	Yes	FAC	Problematic Hydrophytic Vegetation' (Explain)
- Solidago gigantea	12	Vos	EAC)M	
2. Solidago gigantea		165	TAGW	<sup>1</sup> Indicators of bydric soil and wetland bydrology must
3. Impatiens capensis	10	Yes	FACW	be present unless disturbed or problematic
⊿ Juncus effusus	10	Yes	FACW	
- Carex lupulina	10	Ves	OBI	Definitions of Four Vegetation Strata:
5				<b>Trop</b> Weady plants excluding vince 2 in (7.6 cm) or
6. Osmundastrum cinnamomeum	10	Yes	FACW	more in diameter at breast height (DBH) regardless of
7. Dennstaedtia punctilobula	9	No	FACU	height.
Athvrium angustum	8	No	FAC	
Tunha latifalia		No		Sapling/Shrub – Woody plants, excluding vines, less
9. Typna latifolia	8		UBL	than 3 in. DBH and greater than or equal to 3.28 ft (1
10. Onoclea sensibilis	6	No	FACW	m) tall.
11 Fragaria vesca	5	No	FACU	
	108			Herb – All herbaceous (non-woody) plants, regardless
E4		= I otal Cove	er 21 c	or size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>54</u>	20% of	total cover:	21.0	<b>Woody vine</b> – All woody vines greater than 3 28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1				noight
··				
2				
3				
4.				
				Hydrophytic
o				Vegetation
		= Total Cove	er	Present? res <u>No</u>
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet )			
	1000.)			

Profile Des	cription: (Describe to	o the dep	oth needed to docum	ent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redox	Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-18	10YR 5/1	90	10YR 5/8	10	С	PL/M	SCL			
	·									
	·									
	·									
	·									
						·				
1 <del></del>	- <u> </u>						2			
Type: C=C	Concentration, D=Deple	etion, RIVI	=Reduced Matrix, MS	=IVIasked	Sand Gra	ains.	Location: P	L=Pore Linii	ng, M=Matrix.	drie Ceile <sup>3</sup>
Hydric Soli	indicators:			·			indic	ators for Pr		
Histosc	ol (A1)		Dark Surface	(S7)			2	2 cm Muck (A	(MLRA 14	7)
Histic E	pipedon (A2)		Polyvalue Bel	ow Surfa	ce (S8) (N	LRA 147,	148) (	Coast Prairie	Redox (A16)	
Black F	listic (A3)		Thin Dark Sur	face (S9)	(MLRA 1	47, 148)	_	(MLRA 14	7, 148)	
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		F	Piedmont Flo	odplain Soils (	F19)
Stratifie	ed Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13	6, 147)	·
2 cm M	luck (A10) <b>(LRR N)</b>		Redox Dark S	Surface (F	6)		\	/ery Shallow	Dark Surface	(TF12)
Deplete	ed Below Dark Surface	(A11)	Depleted Darl	k Surface	(⊢7)		(	Other (Explai	n in Remarks)	
Thick L	Dark Surface (A12)		Redox Depres		5) (= ( = ( = ) ( = )					
Sandy	Mucky Mineral (S1) (L	KK N,	Iron-Mangane	ese Masse	es (F12) <b>(</b> I	_RR N,				
MLR	(A 147, 148)		MLRA 136	5) (= ( a) (			3.			
Sandy	Gleyed Matrix (S4)		Umbric Surfac	ce (F13) <b>(</b>	MLRA 13	6, 122)	-Inc	licators of hy	drophytic vege	etation and
Sandy	Redox (S5)		Pleamont Floo	odpiain S	OIIS (F19)	(MLRA 14)	8) We	etiand nydrol	logy must be p	resent,
Strippe	d Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	) ur	iess disturbe	ed or problema	tic.
Restrictive	Layer (if observed):									
Type: 👖	one									
Depth (ir	nches):						Hydric Soi	I Present?	Yes 🔽	No
Remarks:							L			



Photo 1 Wetland data point WUPA008e\_w facing north



Photo 2 Wetland data point WUPA008e\_w facing south

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

Project/Site: SERP	City/County: U	pshur	Sampling Date: 6/26/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA008_U
Investigator(s): GB, LE	Section, Towns	ship, Range: <u>No PLSS in this Are</u>	а
Landform (hillslope, terrace, etc.): TOE OF SLOPE	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%): <u>8</u>
Subregion (LRR or MLRA): N Lat: 38	.92635956	Long: <u>-80.24435973</u>	Datum: WGS 1984
Soil Map Unit Name: Gilpin stony silt loam, 15 to 35 perce	ent slopes	NWI classifie	cation: None
Are climatic / hydrologic conditions on the site typical for th	his 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 man		aint locationa transact	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 Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point taken at toe of slope	just above PEM	wetland in a swale,	at edge of a logged area		

#### HYDROLOGY

Wetland Hydrology Indicato	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is re	quired; chec	k 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 Aer</li> <li>Water-Stained Leaves (B</li> <li>Aquatic Fauna (B13)</li> </ul>	ial Imagery 9)	   (B7)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	9 Roots (C3) Soils (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> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:					
Surface Water Present?	Yes	No	_ Depth (inches):		
Water Table Present?	Yes 🖌	No	_ Depth (inches):19		
Saturation Present? (includes capillary fringe)	Yes 🖌	No	_ Depth (inches):21	Wetland	Hydrology Present? Yes No
Describe Recorded Data (stre no hydrology indicators Remarks:	eam gauge,	monitoring	well, aerial photos, previous inspe	ctions), if av	ailable:

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

Sampling Point: WUPA008\_U

	Abaaluta	- Dominant I	ndiaatar	Deminence Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksneet:
Acer rubrum	10	Ves	FAC	Number of Dominant Species
	10	<u> </u>		That Are OBL, FACW, or FAC: (A)
2. Liriodendron tulipitera	10	res	FACU	Total Number of Dominant
<sub>3.</sub> Nyssa sylvatica	10	Yes	FAC	Species Across All Strata: 9 (B)
Quercus alba	8	Yes	FACU	
4		·	<u> </u>	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>33.33333333</u> (A/B)
6				
7.				Prevalence Index worksheet:
	38	Tatal Cause		Total % Cover of: Multiply by:
10		= Total Cove	r 76	OBL species $0 \times 1 = 0$
50% of total cover: 19	20% of	total cover:	1.0	
Sapling/Shrub Stratum (Plot size: 15)				FACW species $x^2 = \frac{1}{100}$
<sub>1.</sub> Rubus allegheniensis	10	Yes	FACU	FAC species $34$ x 3 = $102$
2 Rosa multiflora	10	Yes	FACU	FACU species $57$ x 4 = $228$
	6	No	EAC	$\frac{1}{10} \frac{1}{10} \frac$
3. <u>Acer rubrum</u>	0	NO	FAC	96 X 5 =
4. Oxydendrum arboreum	5	No	UPL	Column Totals: (A) (B)
5				
~				Prevalence Index = $B/A = 3.69$
٥			·	Hydrophytic Vegetation Indicators:
7				1 - Ranid Test for Hydrophytic Vegetation
8.				
				2 - Dominance Test is >50%
9	21			3 - Prevalence Index is ≤3.0 <sup>1</sup>
	<u> </u>	= Total Cove	r	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: <u>15.5</u>	20% of	total cover:	0.2	
Herb Stratum (Plot size: 5)				data in Remarks or on a separate sneet)
Fragaria vesca	15	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Gaulthena procumbens	4	res	FACU	<sup>1</sup> Indiantara of hydria pail and watland hydrology must
3				he present unless disturbed or problematic
4				be present, unless disturbed of problematic.
-				Definitions of Four Vegetation Strata:
5				<b>Tree</b> Weady plants evoluting vince 2 in (7.6 cm) or
6				more in diameter at breast bright (DBH) regardless of
7				height
				noight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
<sup>11</sup>	10			Herb – All herbaceous (non-woody) plants, regardless
	19	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 9.5	20% of	total cover:	3.8	Woody vine All woody vines greater than 2.28 ft in
Woody Vine Stratum (Plot size: 30 )				height
Smilax rotundifolia	8	Yes	FAC	
2				
3				
4				
				Hydrophytic
J			<u> </u>	Vegetation
	8	= Total Cove	r	Present? Yes No
50% of total cover: 4	20% of	total cover:	1.6	
Remarks: (Include photo numbers here or on a senarate s	heet )			
Remarks. (include photo numbers here of on a separate s	neet.)			

Depth (inches)         Matrix         Redox Features           0-5         10YR 3/2         100         %         Type <sup>1</sup> Loc <sup>2</sup> Texture         Remarks           5-18         10YR 5/2         100         SCL         SCL	Profile Des	cription: (Describe to	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)		
Color (moist)       %       Color (moist)       %       Type       Loc <sup>2</sup> Texture       Remarks         0-5       10YR 3/2       100       SL       SL       SL       SCL         5-18       10YR 5/2       100       SCL       SCL       SCL       SCL	Depth	Matrix		Redo	x Features	\$						
0-5       10YR 3/2       100       SL         5-18       10YR 5/2       100       SCL	(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks		
5-18       10YR 5/2       100       SCL         Scl       Scl       Scl         Scl	0-5	10YR 3/2	100					SL				
Image: Stratified Layers (A1)	5-18	10YR 5/2	100					SCL				
Image: constraint of the second strict second strict of the second strict of the se												
'Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       ?Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147, 148)         Black Histic (A3)       Thio Dark Surface (S9) (MLRA 147, 148)       Cocast Prainte Redox (A16)         Black Histic (A3)       Thio Dark Surface (S9) (MLRA 147, 148)       Cocast Prainte Redox (A16)         Stratified Layers (A5)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       MLRA 136, 122)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)       wetland hydrology must be present,         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 148)       wetland hydrology must be present,         Type:       NONE       Hed Parent Material (F21) (MLRA 147, 147)       unless disturbed or problematic.         Remarks:       Wetric Soil Pr	·							<u> </u>				
Image:												
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       *Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators :       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histic Epipedon (A2)       Polyvalue Below Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       (MLRA 147, 148)         Hydrogen Suffide (A4)       Loamy Cleyed Matrix (F2)       Piedmont Floodplain Soils (F19)         Stratified Layers (A5)       Depleted Matrix (F3)       (MLRA 147, 148)         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 Dark Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR N,       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Remarks:       Hydric Soil Present? Yes No       No       M												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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)       Coast Prairie Redox (A16)         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 Dark Surface (F13)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type: NONE       Hydric Soil Present? Yes No       M         Type:       NONE       Piedmont Floodplain Soils (F19) (MLRA 127, 147)       No       M         Remarks:       Hydric Soil Present? Yes												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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 (F7)       Other (Explain in Remarks)         Thick Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       MLRA 147, 148)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N, <sup>3</sup> Indicators of hydrophytic vegetation and         Sandy Gleyed Matrix (S6)       Red Parent Material (F21) (MLRA 136, 122) <sup>3</sup> Indicators of nydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic.         Restrictive Layer (if observed):       Type: NONE       No       V </td <td></td>												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histosol (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 147, 148)         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,         Stripped Matrix (S6)       Piedmont Floodplain Soils (F19) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If observed):       Type: NONE       Hight Coil Present? Yes No       No         Depth (inches):       Depth (inches):       No       No       M         Remarks:       Hydr												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :												
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         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)         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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type: NONE       Hydric Soil Present? Yes No       No         Depth (inches):       Depth (inches):       No       No       V         Remarks:												
Type:       C=Contentiation, D=Depletion, KM=Reduced Matrix, MS=Masked Sand Grants.       Locatodit. = PL=Ore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	$\frac{1}{1}$	oncontration D-Donk	tion PM-P	Poducod Matrix M	-Mackod	Sand Gr		<sup>2</sup> Location: Pl	-Poro Linii	a M-Matrix		
Image: Sector Microbiol Content of the content of	Hydric Soil	Indicators:			S=IVIASKEU	Sanu Gra	ans.		tors for Pr	oblematic H	vdric Soils <sup>3</sup>	
Industry (A1)	Histosol	(A1)		Dark Surface	(97)			2	cm Muck (/		147)	•
Indice Epipedari (i.E.)       Indice Solution Solution Solution (i.E.)         Black Histic (A3)       Thin Dark Surface (S9) (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)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       NONE       NONE         Depth (inches):       Depth (inches):       Hydric Soil Present? Yes       No         Remarks:       Kemarks:       No       Vest	Histic F	nipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	II RA 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)	)	
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)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1) (LRR N,       Iron-Manganese Masses (F12) (LRR N,       MLRA 136, 122)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)       wetland hydrology must be present,         Strictive Layer (if observed):       Type:       NONE       No         Depth (inches):       Depth (inches):       No       Very         Remarks:       Hydric Soil Present? Yes       No       Very	Hydroge	en Sulfide (A4)		Loamy Gleve	d Matrix (I	(	, <b>,</b>	Pi	edmont Flo	odplain Soils	s (F19)	
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,       MLRA 136)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> 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):       Type:       NONE       No         Depth (inches):       Person       Hydric Soil Present? Yes       No         Remarks:       Remarks:       Yes       No       ✓	Stratifie	d Layers (A5)		Depleted Ma	trix (F3)	,			(MLRA 13	6, 147)	( )	
Depleted Below Dark Surface (A11)     Depleted Dark Surface (F7)     Other (Explain in Remarks)     Redox Depressions (F8)     Iron-Manganese Masses (F12) (LRR N,     MLRA 147, 148)     Sandy Mucky Mineral (S1) (LRR N,     MLRA 136)     Sandy Gleyed Matrix (S4)     Dubric Surface (F13) (MLRA 136, 122)     Sandy Redox (S5)     Piedmont Floodplain Soils (F19) (MLRA 148)     stripped Matrix (S6)     Red Parent Material (F21) (MLRA 127, 147)     unless disturbed or problematic.  Restrictive Layer (if observed):     Type: NONE     Depth (inches): Remarks:	2 cm M	uck (A10) (LRR N)		Redox Dark	Surface (F	6)		Ve	ery Shallow	Dark Surfac	e (TF12)	
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136) MLRA 136) Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, not extract the Layer (if observed): Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.          Restrictive Layer (if observed): Type: NONE Remarks:       Hydric Soil Present? Yes No	Deplete	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		Ot	ther (Explai	n in Remarks	s)	
	Thick D	ark Surface (A12)		Redox Depression	ssions (F8	3)						
MLRA 147, 148)       MLRA 136)	Sandy M	Mucky Mineral (S1) <b>(Ll</b>	RR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	LRR N,					
	MLR	A 147, 148)		MLRA 13	6)			2				
	Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	<sup>3</sup> Indi	cators of hy	drophytic ve	getation and	i
	Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	48) wet	land hydrol	ogy must be	present,	
Restrictive Layer (if observed):         Type:       NONE         Depth (inches):       Hydric Soil Present? Yes         Remarks:	Stripped	d Matrix (S6)		Red Parent N	Aaterial (F	21) <b>(MLR</b>	A 127, 147	7) unle	ess disturbe	ed or problem	natic.	
Type:       Hydric Soil Present? Yes       No         Depth (inches):	Restrictive	Layer (if observed):										
Depth (inches):     Hydric Soil Present?     Yes     No       Remarks:	Type:			_								
Remarks:	Depth (in	ches):						Hydric Soil	Present?	Yes	No 🔽	
	Remarks:							•				



Photo 1 Upland data point WUPA008\_u facing north



Photo 2 Upland data point WUPA008\_u facing south

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

Project/Site: SERP	City/Coun	nty: Upshur	Sampling Date: 6/26/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WUPA009e_w
Investigator(s): GB, LE	Section, 7	Township, Range: <u>No PLSS in this Area</u>	а
Landform (hillslope, terrace, etc.): EROSIO	VAL CUT Local relief (o	concave, convex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR or MLRA): <u>N</u>	Lat: <u>38.92646935</u>	Long: <u>-80.24072565</u>	Datum: WGS 1984
Soil Map Unit Name: Ernest silt loam, 8 to 1	5 percent slopes	NWI classific	cation: None
Are climatic / hydrologic conditions on the sit	te typical for this time of year? Yes _	✓ No (If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydr	ology significantly disturbed	? Are "Normal Circumstances" p	present? Yes 🖌 No
Are Vegetation, Soil, or Hydr	ology naturally problematic?	? (If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attac	h site map showing sampli	ing point locations, transects	, important features, etc.

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

Wetland data point within an erosional cut in a concave sideslope, cut has reached water table resulting in a seep, mouth of cut joins French Creek. Although the feature is within a mixed hardwood forest, there are only herbaceous plants within the wetland boundary so classified as a PEM.

#### **HYDROLOGY**

	ors:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum	of one is required;	check all that apply)	Surface Soil Cracks (B6)		
Primary Indicators (minimum of 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 Aer         Water-Stained Leaves (B	<u>of one is required;</u> ial Imagery (B7)	check all that apply)	<ul> <li>Surface Soil Cracks (B6)</li> <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> </ul>		
Aquatic Fauna (B13)	5)		✓ FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes <u>V</u> No <u>Ves</u> <u>Ves</u> <u>No</u> <u>No</u> <u>Ves</u> <u>V</u> No <u></u>	Depth (inches):      Depth (inches):      Depth (inches):      Depth (inches):	Wetland Hydrology Present? Yes <u>V</u> No		
Describe Recorded Data (stre	am gauge, monito	ning weil, aerial priolos, previous inspectic			

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

Sampling Point: WUPA009e\_w

		Ahsolute	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: $2$ (A)
·· <u> </u>			<u></u> .		
2			·	<u> </u>	Total Number of Dominant
3			·		Species Across All Strata: (B)
4			<u> </u>		Demonstrat Demoiser ( Demoiser
5.					Thet Are ORL FACIAL or FAC: 100 (A/R)
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 $\frac{1}{41}$ $x_1 = \frac{1}{22}$
Sapling/Shrub Stratum (Plot siz	ze:15)				FACW species $x_2 = \frac{62}{2}$
1					FAC species $0   x 3 = 0$
··			·		FACU species $0   x 4 = 0$
Z			·		$\frac{1}{1}$
3			·	<u> </u>	$\frac{1}{49} \times 3 = \frac{90}{10}$
4			<u> </u>		Column Totals: (A) (B)
5.					
6			. <u> </u>		Prevalence Index = B/A = 1.05
7			·		Hydrophytic Vegetation Indicators:
/			·		1 - Rapid Test for Hydrophytic Vegetation
8			. <u> </u>		✓ 2 - Dominance Test is >50%
9					$\checkmark$ 3 - Prevalence Index is <3 0 <sup>1</sup>
		0	= Total Cove	r	A Marshala size Adaptations <sup>1</sup> (Devide some sting
	50% of total cover: 0	20% of	f total cover:	0	4 - Morphological Adaptations' (Provide supporting
Herb Stratum (Plot size:	5		_		data in Remarks or on a separate sheet)
Impatiens capensis	)	25	Ves	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Piloo numilo		10	<u> </u>		
2. Pliea pullila		12	res	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
<u>З.</u> Васора caroliniana		5	No	OBL	be present, unless disturbed or problematic.
4. Onoclea sensibilis		4	No	FACW	Definitions of Four Vegetation Strata
<sub>5.</sub> Justicia americana		3	No	OBL	Seminoris er i eur vegetation etrata.
l h					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
0			<u> </u>		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
б 7					<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.					<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					<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>
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6 7 8 9 10 11		49	= 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> </ul>
6 7 8 9 10 11	50% of total cover:24.5		= Total Cover	r 9.8	<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</li> </ul>
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b	50% of total cover: 24.5 : 30 )	49 20% of	= Total Cove f total cover:_	9.8	<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</li> </ul>
b.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover:24.5		= Total Cover:_ f total cover:_ = Total Cover:_	9.8	<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>Ves</u> No</li> </ul>
b.         7.         8.         9.         10.         11.         Woody Vine Stratum (Plot size         1.         2.         3.         4.         5.	50% of total cover:24.5 ::30) 50% of total cover:0	     	= Total Cover:	r 9.8	<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>
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Profile Des	cription: (Describe t	o the dept	n needed to docun	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox Features			. 2	-	<b>_</b> .
(inches)	Color (moist)		Color (moist)		l ype	Loc	<u>l exture</u>	Remarks
0-18	10YR 3/1	100					SIL	
		<u> </u>						
		<u> </u>				<u> </u>		
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)			2	cm Muck (A10) <b>(MLRA 147)</b>
Histic F	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147.	148) Co	past Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MI RA 1	47. 148)	et	(MI RA 147, 148)
	en Sulfide (A4)		Loamy Gleve	d Matrix (F	=2)	,,	Pi	edmont Floodplain Soils (F19)
<u> </u>	d Lavers (A5)		Depleted Mat	riv (F3)	2)			(MI RA 136 147)
Otratilie			Depicted Mai	Surfaco (El	6)		Ve	(inclusion 190, 147)
2 cm M	d Below Dark Surface	(411)	Neulox Dalk (	k Surface	(F7)		0	ther (Explain in Remarks)
Depiete	ork Surfood (A12)	; (ATT)	Depleted Dal		( <i>ГТ)</i>		0	
	ark Sunace (A12)				) 			
Sandy i	Mucky Mineral (ST) (L	KKN,			es (F12) <b>(</b> 1	LKK N,		
	A $147, 148$		MILRA 13	0) 		0 400	31	
Sandy G	Sleyed Matrix (S4)		Umbric Surfa	ce (F13) (I		6, 122)	Indi	cators of hydrophytic vegetation and
Sandy i	Redox (S5)		Pleamont Flo	odplain So	DIIS (F19)	(MLRA 14)	8) wet	land hydrology must be present,
Stripped	d Matrix (S6)		Red Parent N	laterial (F2	21) (MLR	A 127, 147	) unie	ess disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:	UNE							
Depth (in	ches):						Hydric Soil	Present? Yes 🖌 No
Remarks:								



Photo 1 Wetland data point WUPA009e\_w facing east



Photo 2 Wetland data point WUPA009e\_w facing west