Project/Site: SERP		City/C	County: Harrison		Sampling Date: 6/10/2014			
Applicant/Owner: Dominion					Sampling Point: WHAB001e_w			
		Secti	on, Township, Range: No					
Landform (hillslope, terrace, etc.): flat/f								
Subregion (LRR or MLRA): N	l at	. 39.17103108	Long: -80.	56008138	Datum: WGS 1984			
Soil Map Unit Name: Udifluvents and F	luvaquents		Long	NIM/L classific	None			
Are climatic / hydrologic conditions on t								
Are Vegetation, Soil, or								
Are Vegetation, Soil, or	Hydrology	naturally problem	atic? (If needed, e	explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – A	ttach site m	nap showing san	npling point location	ons, transects	, important features, etc.			
Hydrophytic Vegetation Present?								
Hydric Soil Present?	Yes 🗸	No No	Is the Sampled Area	Yes_	No			
Wetland Hydrology Present?		No	within a Wetland?	res	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; chec	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	Surface Water (A1) True Aquatic Plants (B14)							
✓ High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)	<u>~</u>	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)			
Water Marks (B1)		Presence of Reduce	d Iron (C4)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)		Thin Muck Surface (Saturation V	isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic	Position (D2)			
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):	10					
		_ Depth (inches):	10					
	✓ No	Depth (inches):	Wetland H	lydrology Preser	nt? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gau	ae. monitorina	well, aerial photos, pre	evious inspections), if ava	ilable:				
, ,		, , , , , ,	1 //					
Remarks:								
					· ·			

00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6		-		Prevalence Index worksheet:
7				
	0	= Total Cover		Total % Cover of: Multiply by: ORL species 25 x 1 = 25
50% of total cover: 0	20% of	total cover:	0	OBL species x i =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species0 x 3 =0
		-		FACU species0 x 4 =0
2				UPL species
3		-		105 185
4				Column Totals:(A)(B)
5				Prevalence Index = B/A =1.76
6				Hydrophytic Vegetation Indicators:
7				
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 ¹
		= Total Cover	0	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation (Explain)
1. Impatiens capensis	40	Yes	FACW	Problematic Hydrophytic vegetation (Explain)
2. Juncus effusus	40	Yes	FACW	4
3. Typha latifolia	20	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Carex lupulina	5	No	OBL	
5		-		Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	105	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5		total cover:		or size, and woody plants less than 5.20 it tall.
0070 01 total 00701:	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0	T-1-1 0		Vegetation Present? Yes No
50% of total cover:		= Total Cover total cover:	0	
30 % of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Des	cription: (Describe t	o the de				or confirm	the absence	e of indicators.)
Depth	Matrix	0/	Redo	x Feature	S1	. 2	- .	5
(inches) 0-12	Color (moist) 10YR 4/2	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type ¹ D	Loc ² PL	Texture SICL	Remarks
0-12	101R 4/2	95	101R 4/0	<u> </u>		PL 	SICL	
								
						· ——		
			· ·			· ——	-	<u> </u>
¹ Type: C=C	Concentration, D=Deple	etion. RM	1=Reduced Matrix. MS	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
	Indicators:	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				<u> </u>		cators for Problematic Hydric Soils ³ :
Histoso			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	CE (SR) /N	/II RΔ 1 <i>4</i> 7		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su				. +0)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)	1	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		<u>✓</u> Depleted Mat		· <i>-)</i>		'	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		- 6)		,	Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	(711)	Redox Depre				 `	Other (Explain in Remarks)
	Mucky Mineral (S1) (L	RR N	Iron-Mangan			I RR N		
	A 147, 148)	XIX I 4 ,	MLRA 13		C3 (1 12) (LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	•	(MIRA 13	86 122)	3In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent N					nless disturbed or problematic.
	Layer (if observed):		Ned r arent n	nateriai (i	Z1) (IVILIV	A 121, 141)	mess disturbed of problematic.
	Layer (ii observeu).							
Type:							1	
	nches):						Hydric So	il Present? Yes No
Remarks:								



Photo 1 Wetland data point WHAB001e_w facing north



Photo 2
Wetland data point WHAB001e_w facing south

Project/Site: SERP		City/C	county: Harrison		Sampling Date: 6/10/2014			
Applicant/Owner: Dominion				State: WV	Sampling Point: WHAB001s_w			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): flood								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Udifluvents and F	luvaquents			NWI classific	cation: None			
Are climatic / hydrologic conditions on t	he site typical							
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes V No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Vac 🗸	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:								
LIVED OF COX								
HYDROLOGY				Canadan India				
Wetland Hydrology Indicators:	ra autira du ab a	als all that annly)			Ators (minimum of two required)			
Primary Indicators (minimum of one is	-		D4.4)	Surface Soil Cracks (B6)				
Surface Water (A1) High Water Table (A2)		True Aquatic Plants (Hydrogen Sulfide Od		Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)Moss Trim Lines (B16)				
Saturation (A3)			es on Living Roots (C3)					
Water Marks (B1)		Presence of Reduced	=	Moss Hill Ellies (BTo) Dry-Season Water Table (C2)				
Sediment Deposits (B2)		_ Recent Iron Reduction	` '	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	_	_ Thin Muck Surface (0						
Algal Mat or Crust (B4)	_	_ Other (Explain in Rer			tressed Plants (D1)			
Iron Deposits (B5)				Geomorphic	Position (D2)			
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):						
		Depth (inches):	10					
	✓ No	Depth (inches):	10 Wetland F	lydrology Preser	nt? Yes V No			
(includes capillary fringe) Describe Recorded Data (stream gauge)	ge, monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:				
, -			, ,					
Remarks:								

Sampling	Point: WHAB001s_w
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20	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	_	
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Deminent		
3				Total Number of Dominant Species Across All Strata:	2	(B)
4.				_		(-)
				Percent of Dominant Species	100	
5				That Are OBL, FACW, or FAC: _	100	(A/B)
6				Prevalence Index worksheet:		
7					Multiply by	
		= Total Cove		45	Multiply by: 45	
50% of total cover:0	20% of	total cover:_	0	OBL species X I		_
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2	=	_
1. Salix nigra	45	Yes	OBL	FAC species15 x 3		_
2				FACU species0 x 4	=0	_
				UPL species 0 x 5	= 0	
3				Column Totals: 145 (A)	260	_ (B)
4				Column rotals(A)		_ (b)
5				Prevalence Index = B/A = _	1.79	
6				Hydrophytic Vegetation Indicato		_
7						
8				1 - Rapid Test for Hydrophytic	vegetation	
9.				2 - Dominance Test is >50%		
<u>. </u>	45	Total Cove		3 - Prevalence Index is ≤3.0¹		
50% of total cover:22.5	=	= Total Cove total cover:	9	4 - Morphological Adaptations	1 (Provide sup	porting
F	20% 01	lotal cover.		data in Remarks or on a se	parate sheet)	
TIEID Stratum (FIOL SIZE)	75	\/	E A O\A/	Problematic Hydrophytic Vege	etation¹ (Expla	in)
1. Impatiens capensis	75	Yes	FACW		()	,
2. Verbesina alternifolia	15	No	FAC	1 Indicators of budric soil and watter	nd budrologu	munt
3. Boehmeria cylindrica	10	No	FACW	¹ Indicators of hydric soil and wetlan be present, unless disturbed or pro		iiusi
4				Definitions of Four Vegetation S		
5				Deminions of Four Vegetation o	uata.	
6				Tree – Woody plants, excluding vii		
				more in diameter at breast height (DBH), regard	less of
7				height.		
8				Sapling/Shrub - Woody plants, ex	xcluding vines	, less
9				than 3 in. DBH and greater than or	equal to 3.28	3 ft (1
10				m) tall.		
11				Herb - All herbaceous (non-wood)	v) plants, rega	rdless
	100	= Total Cove	er	of size, and woody plants less than		
50% of total cover: 50	20% of	total cover:	20			
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines gre height.	ater than 3.28	s it in
1				neight.		
3						
4				Hydrophytic		
5				Vegetation		
	0 _	= Total Cove		Present? Yes	No	
50% of total cover:0	20% of	total cover:_	0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

(inches)	Matrix		Redo	x Features	1 . 2		
0-4	Color (moist) 10YR 4/4	% 100	Color (moist)	<u> % Ty</u>	/pe ¹ Loc ²		Remarks
4-12	10YR 4/2	95	10YR 4/6	5	D PL	SICL	
						-	
	-						
						-	
						_	
· · · · · · · · · ·	anaantration D Day		L Dadwood Motrix MS	Mooked Co	ad Craina	21 acation. F	Doro Lining M. Motrix
	Indicators:	pletion, Riv	I=Reduced Matrix, MS	s=iviasked Sai	no Grains.	Location: F	PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
			Davis Confess	(07)			
_ Histosol	pipedon (A2)		Dark Surface		S8) (MLRA 14 '		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	istic (A3)		· ·		_RA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		-KA 147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat	, ,		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S			\	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (A11)		k Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	(,	Redox Depre		,		(=
	Mucky Mineral (S1) (LRR N,	Iron-Mangan		12) (LRR N,		
	A 147, 148)	•	MLRA 13		, ,		
	Gleyed Matrix (S4)			, ce (F13) (MLF	RA 136, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)				(F19) (MLRA 1		etland hydrology must be present,
	d Matrix (S6)				(MLRA 127, 1		nless disturbed or problematic.
estrictive	Layer (if observed)):			-		•
Type:							
Depth (in	ches):					Hydric Soi	I Present? Yes No
emarks:						1.,	
ciriarito.							



Photo 1 Wetland data point WHAB001s_w facing north



Photo 2
Wetland data point WHAB001s_w facing south

Project/Site: SERP		City/C	County: Harrison		Sampling Date: 6/10/2014			
Applicant/Owner: Dominion					Sampling Point: WHAB001_u			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): flat -								
Subregion (LRR or MLRA): N	Lat:	39.1710341	Long: -80.	56017947	Datum: WGS 1984			
Soil Map Unit Name: Udifluvents and FI	uvaquents			NWI classific	ation: None			
Are climatic / hydrologic conditions on th	ne site typical fo							
Are Vegetation, Soil, or I	Hydrology	significantly distu	rbed? Are "Normal	Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or I								
SUMMARY OF FINDINGS – A	-							
Hydrophytic Vegetation Present?	Yes	No. 🗸						
Hydric Soil Present?		No	Is the Sampled Area		🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:		<u> </u>						
Fill dirt for pipeline pad								
HYDROLOGY								
Wetland Hydrology Indicators:					tors (minimum of two required)			
Primary Indicators (minimum of one is	-			Surface Soil Cracks (B6)				
Surface Water (A1)		True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)				
High Water Table (A2)		Hydrogen Sulfide Od						
Saturation (A3)			• ,					
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			on in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface (sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	 '	Other (Explain in Re	marks)	· 	tressed Plants (D1)			
Iron Deposits (B5)	···· (DZ)			Geomorphic				
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqui				
Water-Stained Leaves (B9)					phic Relief (D4)			
Aquatic Fauna (B13)			1	FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):						
		Depth (inches):						
		Depth (inches):		lydrology Presen	t? Yes No			
(includes capillary fringe)					itr resNo			
Describe Recorded Data (stream gaug	je, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								

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

Sampling Point: WHAB001_u

00	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Openies / toress / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by: ORL species 0 x 1 = 0
50% of total cover: 0	20% of	total cover:	0	ODL species x 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species25 x 3 =75
				FACU species 70 x 4 = 280
2				UPL species
3				05 355
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =3.73
6				1 Tevalence mack = B/T(=
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
		= Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Trifolium repens	40	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Trifolium fragiferum	30	Yes	FACU	
	25			¹ Indicators of hydric soil and wetland hydrology must
3. Rumex crispus		Yes	FAC	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6			<u>.</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	95 .	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5		total cover:	19	or ores, and noosy planto loss than ores it tam
00/0 01 total 00 001.	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
o	0 :			Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	100 NO
30 70 01 total cover.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
disturbed maintained fill pad				

Sampling Point: WHAB001_u

epth	Matrix		Redox Features	. 2		_	
nches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹	Loc ²	Texture	Rer	marks
0-14	10YR 4/4	100			SCL		
		· 					
		<u></u>					
		· 					
		· —— —					
		. <u> </u>					
		· 					
		. <u> </u>					
ype: C=Cc	ncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Masked Sand Grain	ns. ²I		=Pore Lining, M=	
dric Soil I	ndicators:				Indica	tors for Problem	atic Hydric Soils ³ :
_ Histosol	(A1)		Dark Surface (S7)		20	cm Muck (A10) (N	ILRA 147)
	ipedon (A2)		Polyvalue Below Surface (S8) (ML	RA 147, 14	. 8) Co	oast Prairie Redox	(A16)
Black His			Thin Dark Surface (S9) (MLRA 14)		• —	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			edmont Floodplair	
	Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark Surface (F6)			ery Shallow Dark S	
_ Depleted	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Ot	her (Explain in Re	emarks)
_ Thick Da	rk Surface (A12)		Redox Depressions (F8)				
_ Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Manganese Masses (F12) (LF	RR N,			
	147, 148)		MLRA 136)				
_ Sandy G	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122)	³ Indio	cators of hydrophy	tic vegetation and
_ Sandy R	edox (S5)		Piedmont Floodplain Soils (F19) (N	/ILRA 148)	wet	land hydrology mi	ust be present,
_ Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA	127, 147)	unle	ess disturbed or p	roblematic.
estrictive L	.ayer (if observed):						
Type:			<u>_</u>				
Depth (inc	ches):				Hydric Soil I	Present? Yes	No
emarks:	,		_			-	
omano.							



Photo 1 Upland data point WHAB001_u facing north



Photo 2
Upland data point WHAB001_u facing west

Project/Site: SERP		City/Cou	ınty: Harrison		Sampling Date: 6/10/2014			
Applicant/Owner: Dominion		-		_ State: WV	Sampling Point: WHAB002e_w			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): floodpla								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Gilpin-Upshur comp	lex, 25 to 35 perce	ent slopes, severely	eroded	NWI classifica	ation:			
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or Hy								
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Hydrophytic Vegetation Present?	Yes ✔ No							
Hydric Soil Present?	Yes / No		s the Sampled Area	V V	No			
Wetland Hydrology Present?	Yes V No		vithin a Wetland?	res	NO			
Remarks:								
HYDROLOGY				0				
Wetland Hydrology Indicators:					tors (minimum of two required)			
Primary Indicators (minimum of one is re	•			Surface Soil (Cracks (B6) letated Concave Surface (B8)			
1 	_ Surface Water (A1) True Aquatic Plants (B14) _ High Water Table (A2) Hydrogen Sulfide Odor (C1)							
High Water Table (A2)		✓ Drainage Pat						
Saturation (A3) Water Marks (B1)		ized Knizospheres ence of Reduced Ir	=	 Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Sediment Deposits (B2)	_	ent Iron Reduction i	` '					
Drift Deposits (B3)		Muck Surface (C7)		-	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		r (Explain in Rema			ressed Plants (D1)			
Iron Deposits (B5)				Geomorphic l	Position (D2)			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aquit	tard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	. 4							
· · · · · · · · · · · · · · · · · · ·		oth (inches):						
	No Dep							
Saturation Present? Yes (includes capillary fringe)	No Dep	oth (inches):	Wetland H	lydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge	monitoring well, a	erial photos, previo	ous inspections), if ava	ilable:				
Remarks:								

Sampling	Point: WHAB002e_w
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00	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				Specifica / for occo / fill off did.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cover	_	
50% of total cover:0	20% of	total cover:	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
				FAC species80
1				FACU species 0 x 4 = 0
2				
3				145 305
4				Column Totals: (A) (B)
5				Prevalence Index - R/A - 2.1
6				Trevalence index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cover		4 - Morphological Adaptations¹ (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)
1 Microstegium vimineum	80	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Typha latifolia	30	Yes	OBL	
	20			¹ Indicators of hydric soil and wetland hydrology must
3. Persicaria sagittata		No	OBL	be present, unless disturbed or problematic.
4. Carex lupulina	15	No	OBL	Definitions of Four Vegetation Strata:
5				3
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	145 .	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 72.5		total cover:	29	or orzer, and modely plante 1888 than 6.28 it tall
Woody Vine Stratum (Plot size: 30)	2070 01			Woody vine – All woody vines greater than 3.28 ft in
/voody vine Stratum (Flot Size)				height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
o	0 :			Present? Yes No
50% of total cover: 0		= Total Cover	0	
30 /0 01 total cover.		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe t	to the de	pth needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Features		. 2		
(inches) 0-6	Color (moist) 10YR 4/1	<u>%</u> 90	Color (moist) 10YR 4/6	<u>%</u> 10	Type ¹ C	Loc ² PL	Texture SCL	Remarks
6-12	10YR 4/1	85	10YR 4/6	15	С	PL	C	
		-					-	
	·	-			-			
							-	
	-		-					
					-			
						· ——		
	oncentration, D=Depl	etion, RM	I=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface		(00) (1			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye			147, 148)	1	(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		1 2)		_ '	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	, ,	·6)		,	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da	,	,			Other (Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (F	3)			
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan		es (F12) (LRR N,		
	A 147, 148)		MLRA 13				2	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6) Layer (if observed):		Red Parent N	viateriai (F.	21) (WLK	A 127, 147	r) ui	nless disturbed or problematic.
	Layer (II Observeu).							
Type:	ah a a\.						Ukadala Cal	il Present? Yes No
	ches):						nyuric so	il Present? Yes No
Remarks:								



Photo 1 Wetland data point WHAB002e_w facing west



Photo 2 Wetland data point WHAB002e_w facing east

Project/Site: SERP	City/County: Harrison	Sampling Date: 6/10/2014						
Applicant/Owner: Dominion		State: WV Sampling Point: WHAB002_u						
Investigator(s): Crew B	Section, Township, Range							
Landform (hillslope, terrace, etc.): hill slope	Local relief (concave, convex	, none): none Slope (%): 55						
		-80.55999632 Datum: WGS 1984						
Soil Map Unit Name: Gilpin-Upshur complex, 25 to	35 percent slopes, severely eroded	NWI classification: None						
Are climatic / hydrologic conditions on the site typical								
		rmal Circumstances" present? Yes No						
Are Vegetation, Soil, or Hydrology _								
		ations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes	•							
	No V Is the Sampled Ar							
	within a Wetland?	Yes No						
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; ch	neck 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)						
	ts (C3) Moss Trim Lines (B16)							
Water Marks (B1)	Dry-Season Water Table (C2)							
Sediment Deposits (B2)	Crayfish Burrows (C8)							
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4)	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:								
	Depth (inches):							
	Depth (inches):							
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetla	Wetland Hydrology Present? Yes No						
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections), if	available:						
Remarks:								

Sampling	Point: WHAB002_	u
Januania	I UIIII. –	•

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liriodendron tulipifera	45	Yes	FACU	That Are OBL, FACW, or FAC:0 (A)
2. Acer saccharum	20	Yes	FACU	Total Number of Deminent
3. Pinus strobus	20	Yes	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
4.				Operics / toross / till otrata.
· ·				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 42.5	20% of	total cover:	17	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
· · ·				FAC species0 x 3 =0
1				FACU species 95 x 4 = 380
2		 -		UPL species 0 x 5 = 0
3				95 380
4				Column Totals: (A) (B)
5				Provolence Index D/A 4
6				Prevalence Index = B/A =4
_				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
	0	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Polystichum acrostichoides	10	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
D				
2		 -		¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
7				neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	10	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5		total cover:	2	
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5.				Vegetation
	0 .	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: WHAB002_u

Profile Desc	cription: (Describe t	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redox	K Features	S1	. ,	_				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarl	(S	
0-12	10YR 4/4	100					SCL				
					-			-			
	•										
	-										
¹ Type: C=C	oncentration, D=Deple	etion. RM=R	educed Matrix. MS	S=Masked	Sand Gra	ains.	² Location: P	L=Pore Lin	ing. M=Mat	ix.	
Hydric Soil		,	, , , , , , , , , , , , , , , , , , , ,						roblematic		oils³:
Histosol			Dark Surface	(S7)					(A10) (MLR	-	
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	II RA 147.			e Redox (A	•	
	istic (A3)		Thin Dark Su				,	MLRA 14		/	
	en Sulfide (A4)		Loamy Gleye	. ,	•	41, 140)	F		oodplain Sc	ils (F19)	
	d Layers (A5)		Depleted Mat		· - /		<u> </u>	(MLRA 1		(1 10)	
	uck (A10) (LRR N)		Redox Dark S		·6)		\	•	w Dark Surf	ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar					•	ain in Rema	, ,	
	ark Surface (A12)	,	Redox Depre					()		-,	
	/ucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,					
	A 147, 148)		MLRA 130		· / ·						
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	³ Inc	licators of h	ydrophytic	vegetation	and
	Redox (S5)		Piedmont Flo						ology must b	-	
	Matrix (S6)		Red Parent M					-	ed or probl		
	Layer (if observed):		<u> </u>								
Type:											
	ches):		_				Hydric Soil	Present?	Yes	No	~
Remarks:	,		_				,				-
rtomants.											



Photo 1 Upland data point WHAB002_u facing south



Photo 2
Upland data point WHAB002_u facing west



Photo 3
Upland data point WHAB002_u facing south