Project/Site: Atlantic Coast Pipe	line	City/C	county: Lewis		Sampling Date: 4/6/2015		
Applicant/Owner: Dominion					Sampling Point: wleb110e_w		
Investigator(s): TP, SA		Section	on, Township, Range: No	PLSS in this area	_ ,		
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): N		Lat: 39.14768289	Long: <u>-</u> 80.	54537402	Datum: WGS 1984		
Soil Map Unit Name: Vandalia s	ilt loam, 15 to 25 pe	ercent slopes		NWI classifica	ation: None		
Are climatic / hydrologic condition	ons on the site typic;	al for this time of year? Y	′es No	(If no, explain in Re	emarks.)		
Are Vegetation . Soil	. or Hvdrology	significantly distur	bed? Are "Normal	l Circumstances" p	resent? Yes No		
Are Vegetation, Soil							
			•		, important features, etc.		
		_		<u> </u>			
Hydrophytic Vegetation Preser Hydric Soil Present?	II! Yes Ves	/ No / No	Is the Sampled Area	.,			
Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:							
needle rush.							
HYDROLOGY							
Wetland Hydrology Indicator	's:			Secondary Indicat	tors (minimum of two required)		
Primary Indicators (minimum o	f one is required; ch	neck all that apply)		Surface Soil (	Cracks (B6)		
Surface Water (A1)	-	True Aquatic Plants (			etated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pat			
Saturation (A3)	-	Oxidized Rhizospher		Moss Trim Lii			
Water Marks (B1)	-	Presence of Reduced	` '		Vater Table (C2)		
Sediment Deposits (B2)	-	Recent Iron Reductio		Crayfish Burn			
Drift Deposits (B3) Algal Mat or Crust (B4)	-	Thin Muck Surface (0 Other (Explain in Rer			sible on Aerial Imagery (C9) ressed Plants (D1)		
Iron Deposits (B5)	-	Other (Explain in Nei	ilaiks)	Geomorphic I	· · ·		
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquit			
Water-Stained Leaves (B9	• • • •			Microtopographic Relief (D4)			
Aquatic Fauna (B13)	•			FAC-Neutral			
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?	Yes No	Depth (inches):	0				
Saturation Present?			0 Wetland H	Hydrology Presen	t? Yes <u>'</u> No		
(includes capillary fringe)  Describe Recorded Data (streat	am gauge monitoriu	na well serial photos pre	vious inspections) if ava	ailahle:			
Describe Necolded Data (Siles	in gauge, monitorii	ig well, aerial priotos, pre	vious irispections), ii ava	allable.			
Remarks:							

Sampling Point: wleb110e_w	Samp	lina	Point:	wleb110e_	_w
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00		Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species? S	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total New Long ( Device of
3				Total Number of Dominant Species Across All Strata: 3 (B)
4.				Openies / toross / tir etrata.
<u> </u>				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				
	=	Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of to	otal cover:	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
				FAC species10 x 3 =30
1				FACU species 0 x 4 = 0
2				UPL species $0 \times 5 = 0$
3				25 50
4				Column Totals:(A)(B)
5				Prevalence Index - B/A - 2
6				Trevalence index = b/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		Total Cover	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of to	otal cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				· · · · · · · · · · · · · · · · · · ·
1. Scirpus atrovirens	10	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Panicum virgatum	10	Yes	FAC	
3. Juncus effusus	5	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11	25			Herb – All herbaceous (non-woody) plants, regardless
12.5	=	Total Cover	_	of size, and woody plants less than 3.28 ft tall.
50% of total cover:12.5	20% of to	otal cover:	5	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
· ``				Hydrophytic
5				Vegetation Present? Yes No
0		Total Cover	0	Present? Yes No No
50% of total cover:0	20% of to	otal cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wleb110e\_w

Profile Des	cription: (Describe t	the de				or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	x Feature		. 2	<b>-</b> .	Б
(inches)	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> PL	<u>Texture</u> CL	Remarks
0-12	101R 4/1	95	101R 4/0			PL ———	CL	
						· ——		
						· ——		
						· ——	-	-
	· ———						-	· -
				·				
						<del></del>		
								· <u></u>
<sup>1</sup> Type: C=C	concentration, D=Depl	etion, RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:				_		Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	/ILRA 147,		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat		` ,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		<del>-</del> 6)		\	Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	ssions (F	8)			
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Mass	es (F12) (	LRR N,		
	A 147, 148)		MLRA 130					
Sandy (	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (	(MLRA 13	36, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M					nless disturbed or problematic.
	Layer (if observed):							·
Type:								
	nches):						Hydric Soi	I Present? Yes No
Remarks:							, ,	
Nemaiks.								



Photo 1
Wetland data point wleb110e\_w facing north



Photo 2
Wetland data point wleb110e\_w facing west

Project/Site: Atlantic Coast Pipeline	City/County: Lewis	į.	Sampling Date: 4/6/2015	
Applicant/Owner: Dominion			Sampling Point: wleb110_u	
	Section, Township		· -	
	Local relief (concave,	convex, none): none	Slope (%): <u>5</u>	
Subregion (LRR or MLRA): N				
Soil Map Unit Name: Vandalia silt loam, 15 to 25 pe		NWI classif		
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes N	lo (If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	'present? Yes No	
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS – Attach site	e map showing sampling poi	nt locations, transect	s, important features, etc.	
Lindrophytic Vegetation Present?	No. 4			
	No V Is the Sam		🗸	
	No within a W	etland? Yes	No	
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		<u></u>	cators (minimum of two required)	
Primary Indicators (minimum of one is required; cl		Surface So	` '	
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface				
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)				
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)				
·	Recent Iron Reduction in Tilled So	· · · · · · · · · · · · · · · · · · ·	i i	
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)	
Iron Deposits (B5)			ic Position (D2)	
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)	
Water-Stained Leaves (B9)		Microtopog	raphic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)	
Field Observations:				
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes No	
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspec	ions), if available:		
Parada				
Remarks:				

Sampling Point: wleb110_u
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20	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
				Opedies Across Air otrata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Bassalan as Indexessalah ad
7				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:0		total cover:_	0	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )				FACW species0 x 2 =0
1 Rubus argutus	10	Yes	FACU	FAC species 0 x 3 = 0
·· <u> </u>				20 400
2. Rosa multiflora	10	Yes	FACU	racu species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				,
				Prevalence Index = B/A =4
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	20	= Total Cove	r	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:10		total cover:_	4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Solidago altissima		<u>res</u>	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				Definitions of Four Vegetation Strata.
		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
11.	10	<del></del>		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10		= Total Cove		of size, and woody plants less than 3.26 it tall.
0070 01 total 00001:	20% 01	total cover:_		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
		·		Hydrophytic
5				Vegetation Present? Yes No
		= 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.)			

Sampling Point: wleb110\_u

Profile Desc	ription: (Describe to	the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_				
(inches)	Color (moist) 10YR 3/4	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL		Remarl	ks	
0-12	101R 3/4	100					SCL				
				-							
					-						
	·										
					-						
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P				
Hydric Soil	Indicators:						Indic	ators for P	roblematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	(A10) <b>(MLR</b>	A 147)	
Histic E <sub>l</sub>	oipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) 0	Coast Prairi	e Redox (A	16)	
	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)		
	en Sulfide (A4)		Loamy Gleye		F2)		F	Piedmont Fl	oodplain Sc	oils (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 1			
	ıck (A10) <b>(LRR N)</b>		Redox Dark S					•	w Dark Surf	. ,	)
	d Below Dark Surface	(A11)	Depleted Dar				c	Other (Expla	ain in Rema	rks)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,					
	A 147, 148)		MLRA 13	•		0 400\	3,				
	Gleyed Matrix (S4)		Umbric Surfa						nydrophytic	-	
	Redox (S5)		Piedmont Flo					-	ology must b		,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturb	ped or probl	ematic.	
	Layer (if observed):										
Type:			_								
Depth (in	ches):		<u> </u>				Hydric Soil	Present?	Yes	No _	
Remarks:							•				



Photo 1
Upland data point wleb110\_u facing southwest



Photo 2
Upland data point wleb110\_u facing northeast

Applicant/Owner: Dominion State: WV Sampling Point: Web109e_W Investigator(s): TP, SA Section, Township, Range: No PLSS in this area  Landform (hillslope, terrace, etc.): drainage way Local relief (concave, convex, none): concave Slope (%): 2  Subregion (LRR or MLRA): N Lat: 39.14844078 Long: -80.54466864 Datum: WGS 1984  Soil Map Unit Name: Vandalia silt loam, 15 to 25 percent slopes NWI classification: None  Are climatic / hydrologic conditions on the site typical for this time of year? Yes V No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No	Project/Site: Atlantic Coast Pipeline	е	City/C	ounty: Lewis		Sampling Date: 4/6/2015		
Investigator(s): TP. SA   Section, Township, Range: No PLSS in this area	Applicant/Owner: Dominion				State: WV	Sampling Point: wleb109e_w		
Landform (hillslope, terrace, etc.): drainage way								
Soil Map Unit Name; Vandalia sit Idam, 15 to 25 percent slopes								
Soil Map Unit Name; Vandalia sit Idam, 15 to 25 percent slopes	Subregion (LRR or MLRA): N	Lat:	39.14844078	Long: <u>-</u> 80.	54466864	Datum: WGS 1984		
Are Vegetation, Soil, or Hydrology significantly disturbed?	Soil Map Unit Name: Vandalia silt I	oam, 15 to 25 perce	ent slopes		NWI classifica	ation: None		
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are climatic / hydrologic conditions	on the site typical fo	or this time of year? Y	es No	(If no, explain in Re	emarks.)		
Are Vegetation								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes V No Within a Wetland? Yes No Wetland Hydrology Present? Yes V No No No Wetland Hydrology Present? Yes V No No No Wetland Hydrology Present? Yes V No No No No Wetland Hydrology Present? Yes V No								
Hydrophytic Vegetation Present? Yes V No within a Wetland? Yes No within a Wetland? Yes No within a Wetland? Yes No No No within a Wetland? Yes No	-							
Hydric Soil Present?  Yes V No Weltand Hydrology Present?  Remarks:  PEM wetland abutting SLEA003. Degraded due to livestock. Dominant plants include switch grass, green bulrush, false-nettle, and soft needle rush.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Yes V No Depth (inches):  Secondary Indicators (minimum of two required)  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Drainage Patterns (B10)  Sediment Deposits (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Drift Deposits (B3)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)  Under-Stained Leaves (B9)  Water-Stained Leaves (B9)  Water-Stained Leaves (B9)  Water Present?  Yes No Depth (inches):  Surface Water Present?  Yes No Depth (inches):  Obertion (Inches):  Obertion (Inches):  Under Georded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Wetland Hydrology Present?   Yes   V   No     No     No       No		Yes V	NO	-				
Remarks:   PEM wetland abutting SLEA003. Degraded due to livestock. Dominant plants include switch grass, green bulrush, false-nettle, and soft needle rush.   Per Not	· ·			within a Wetland?	Yes	No		
PEM wetland abutting SLEA003. Degraded due to livestock. Dominant plants include switch grass, green bulrush, false-nettle, and soft needle rush.    Per	, ,,							
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Woter Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)  Sediment Deposits (B3)  Trin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Marks (B1)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Depth (inches):  Saturation Present?  Yes V No Depth (inches):  One of the finite of the April Imagery (B7)  Saturation Present?  Yes V No Depth (inches):  One of the finite Apply  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes V No Depth (inches):  Saturation Present?  Yes V No Depth (inches):  Saturation Present? Yes V No Depth (inches):  One of the field observations (B1)  Wetland Hydrology Present? Yes No	HYDROLOGY							
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Woter Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)  Sediment Deposits (B3)  Trin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Marks (B1)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Depth (inches):  Saturation Present?  Yes V No Depth (inches):  One of the finite of the April Imagery (B7)  Saturation Present?  Yes V No Depth (inches):  One of the finite Apply  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes V No Depth (inches):  Saturation Present?  Yes V No Depth (inches):  Saturation Present? Yes V No Depth (inches):  One of the field observations (B1)  Wetland Hydrology Present? Yes No	Wetland Hydrology Indicators:				Secondary Indicat	tors (minimum of two required)		
Surface Water (A1)		ne is required; chec	k all that apply)		<u> </u>			
✓ 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)       Pack-Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes       No         Saturation Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?       Yes       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	'	-		B14)				
Water Marks (B1)								
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): O Saturation Present? Yes No Depth (inches): O Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation (A3)	<u> </u>	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)		
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) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) Microtopographic Relief (D4) FAC-Neutral Test (D5) Feld Observations:  Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): O Wetland Hydrology Present? Yes No Depth (inches): O Wetland Hydrology Present? Yes No Depth (inches): O No O O No O No O	Water Marks (B1)		Presence of Reduced	I Iron (C4)	Dry-Season V	Vater Table (C2)		
	Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burn	ows (C8)		
Iron Deposits (B5)								
Inundation Visible on Aerial Imagery (B7)	_ · ·		Other (Explain in Ren	narks)	· <del></del>	` ′		
Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) FAC-Neutral Test (D5)	l — ' ' '	magary (P7)						
Aquatic Fauna (B13)		nagery (br)						
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): 0  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Water Table Present? Yes V No Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No No Depth (inches): 1 Uncludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		es No 🗸	Depth (inches):					
Saturation Present? Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No				0				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				0 Wetland H	lydrology Presen	t? Yes 🗸 No		
	(includes capillary fringe)			_				
Remarks:	Describe Recorded Data (stream	gauge, monitoring v	vell, aerial photos, pre	vious inspections), if ava	illable:			
	Remarks:							

Sampling	Point: wleb109e_	W
Sambillu	FUILL	

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 4 (A)
2				Total New horse ( Descriptor)
3				Total Number of Dominant Species Across All Strata:  4 (B)
Δ				Openies / toross / tir circuta.
T				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
2	:	= Total Cove	_	25
50% of total cover: 0	20% of	total cover:_	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 = 0
3				UPL species0 x 5 =0
				Column Totals:60
4				、,
5				Prevalence Index = B/A =1.91
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	r	
50% of total cover:0	20% of	total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1. Scirpus atrovirens	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Panicum virgatum	10	Yes	FAC	
3. Dichanthelium clandestinum	10	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
A Boehmeria cylindrica	10	Yes	FACW	be present, unless disturbed or problematic.
harana affirma	5			Definitions of Four Vegetation Strata:
5. Juncus effusus		<u>No</u>	FACW	Tree Woody plants evaluding vince 2 in (7.6 cm) or
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
· · · · · · · · · · · · · · · · · · ·	60			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30		<ul><li>Total Cove total cover:_</li></ul>		of size, and woody plants less than 3.20 it tall.
30 /0 of total cover	20% 01	lotal cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s		_		
Tremane. (morade priore numbers here of on a separate si	11001.)			

Sampling Point: wleb109e\_w

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches)         Color (moist)         %           0-12         10YR 3/1         95	Color (moist)         %         Type¹         Loc²           10YR 4/6         5         C         PL	Texture Remarks CL
		<del></del>
17 O. Ossassinstina D. Danistina DM	Deduced Matrix MO Made at Oard Oard	21
Hydric Soil Indicators:	=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
	Dark Surface (S7)	
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	2 cm Muck (A10) (MLRA 147) 148) Coast Prairie Redox (A16)
Black Histic (A3)	Tolyvalde Below Surface (So) (MERA 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)
<ul><li>Thick Dark Surface (A12)</li><li>Sandy Mucky Mineral (S1) (LRR N,</li></ul>	<ul><li>Redox Depressions (F8)</li><li>Iron-Manganese Masses (F12) (LRR N,</li></ul>	
MLRA 147, 148)	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	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:	<u></u>	_
Depth (inches):	<u></u>	Hydric Soil Present? Yes No
Remarks:		



Photo 1
Wetland data point wleb109e\_w facing northeast



Photo 2
Wetland data point wleb109e\_w facing southwest

Project/Site: Atlantic Coast Pipeline		City/C	County: Lewis		Sampling Date: 4/6/2015			
Applicant/Owner: Dominion					Sampling Point: wleb109_u			
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): hill slope								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt loam, 15 t	o 25 percent slope	es		NWI classific	cation: None			
Are climatic / hydrologic conditions on the sit	e typical for this tir	me of year? \	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hydro	ologysign	ificantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil, or Hydro								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present? Y	es No	<u> </u>						
	es No		Is the Sampled Area	.,	🗸			
	es No_		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is requ	ired; check all that	apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	(B14)	Sparsely Vegetated Concave Surface (B8)						
High Water Table (A2)	-	en Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)	• ,	Moss Trim L						
Water Marks (B1)		ce of Reduce			Water Table (C2)			
Sediment Deposits (B2)			on in Tilled Soils (C6)	oils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3)		uck Surface (0		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (I	Explain in Rei	marks)	·	Stressed Plants (D1)			
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	37)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)					aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)			
Field Observations:	4							
	No Depth							
	No Depth							
Saturation Present? Yes (includes capillary fringe)	No Pepth	(inches):	Wetland F	lydrology Preser	nt? Yes No			
Describe Recorded Data (stream gauge, m	onitoring well, aeri	al photos, pre	evious inspections), if ava	ilable:				
Remarks:								

### VEGETATION (Four Strata) - Use scientific nam

GETATION (Four Strata) – Use scientific	Absolute	Dominant Ir	ndicator	Sampling Point: wleb109_u  Dominance Test worksheet:
ee Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant Species Across All Strata:3 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33333333 (A/B
	·	·		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
500/ attack account		= Total Cove	. 0	OBL species $0 \times 1 = 0$
50% of total cover:0	20% 01	f total cover:		FACW species0
apling/Shrub Stratum (Plot size:)  Rubus argutus	10	Yes	FACU	FAC species
		-	1700	FACU species x 4 = 80
				UPL species 0 x 5 = 0
		·		Column Totals: $35$ (A) $125$ (B)
		· ——		Column rotals (A) (B)
				Prevalence Index = B/A =3.57
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
		<u> </u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
_	10	= Total Cover	2	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50% of total cover:	20% of	f total cover:		data in Remarks or on a separate sheet)
erb Stratum (Plot size:5	4=			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Andropogon gerardii	15	Yes	FAC	residentation yarephytic vegetation (Explain)
Solidago altissima	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
		. <u></u>		height.
				On Provident Washington and discount of
	_			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0				m) tall.
1				Herb – All herbaceous (non-woody) plants, regardless
	25	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:12		f total cover:		
/oody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
·				
		· <del></del>		Hydrophytic Vegetation
		Total Orient		
	0	= Total Cover f total cover:	. 0	

Sampling Point: wleb109\_u

Profile Desc	cription: (Describe to	the depth n	eeded to docum	ent the inc	licator or confir	m the al	bsence of indicators.)
Depth	Matrix			Features			
(inches) 0-12	Color (moist) 7.5YR 3/4	100	Color (moist)	<u></u> %	Type <sup>1</sup> Loc <sup>2</sup>		octure Remarks
					<del></del>		<del></del>
						·	
						-	<del></del>
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion. RM=Re	duced Matrix. MS	=Masked S	and Grains.	<sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil			,				Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	_	Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)	_		, ,	(S8) <b>(MLRA 147</b>	', 148)	Coast Prairie Redox (A16)
	stic (A3)	_			MLRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)	_	Loamy Gleye		2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	_	Depleted Mat				(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(Δ11)	Redox Dark S Depleted Dar				<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>
	ark Surface (A12)	(////) _	Redox Depre		')		Other (Explain in Nemarks)
	Mucky Mineral (S1) (LF	RR N,			(F12) <b>(LRR N,</b>		
	A 147, 148)		MLRA 136				
	Sleyed Matrix (S4)	_			LRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)	_			s (F19) (MLRA 1		wetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F21	) <b>(MLRA 127, 1</b> 4	17)	unless disturbed or problematic.
	Layer (if observed):						
	-1>						luis Octi Bassaurio Van
	ches):					Hydi	ric Soil Present? Yes No
Remarks:							



Photo 1 Upland data point wleb109\_u facing southwest



Photo 2
Upland data point wleb109\_u facing northeast

Project/Site: Atlantic Coast Pipel	ine	City/C	county: Lewis		Sampling Date: 4/7/2015			
Applicant/Owner: Dominion					Sampling Point: wleb111e_w			
Investigator(s): TP, SA Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.)	: drainage way	Local reli	ief (concave, convex, nor	ne): concave	Slope (%):2			
Subregion (LRR or MLRA): N	1	_at: 39.14184457	Long: -80.	53632793	Datum: WGS 1984			
Soil Map Unit Name: Vandalia si	It loam, 25 to 35 pe	ercent slopes		NWI classifica	ation: None			
Are climatic / hydrologic condition	ns on the site typic	al for this time of year? Y	′es No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil	. or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes V No			
Are Vegetation, Soil								
					, important features, etc.			
		_						
Hydrophytic Vegetation Presen Hydric Soil Present?	l? Yes Ves	No No	Is the Sampled Area					
Wetland Hydrology Present?		No	within a Wetland?	Yes	_ No			
Remarks:	100							
bulrush, and tear-thumb.								
HYDROLOGY								
Wetland Hydrology Indicators	<b>S</b> :			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of	one is required; ch	neck all that apply) True Aquatic Plants (		Surface Soil (				
Surface Water (A1)	-		etated Concave Surface (B8)					
High Water Table (A2)		or (C1)	<u>✓</u> Drainage Pat					
Saturation (A3)		Oxidized Rhizospher	=	Moss Trim Lir				
Water Marks (B1)	-	Presence of Reduced	` '	<ul><li>Dry-Season Water Table (C2)</li><li>Crayfish Burrows (C8)</li></ul>				
Sediment Deposits (B2) Drift Deposits (B3)	-	<ul><li>Recent Iron Reductio</li><li>Thin Muck Surface (0</li></ul>						
Algal Mat or Crust (B4)	-	Other (Explain in Rer		<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>				
Iron Deposits (B5)	-	Other (Explain in Net	nans)	Geomorphic I	· · · ·			
Inundation Visible on Aeria	l Imagery (B7)			Shallow Aquit				
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):	0					
Saturation Present?	Yes No	Depth (inches):	0 Wetland H	lydrology Present	t? Yes <u>/</u> No			
(includes capillary fringe)  Describe Recorded Data (strea	m gauge monitoriu	na well perial photos pre	vious inspections) if ava	ilahle:				
Describe Necorded Data (strea	m gauge, monitorii	ig well, aerial priotos, pre	vious irispections), ii ava	illable.				
Remarks:								

Sampling Point: wleb111e_v	Sampling	Point·wleb111e_	W
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	Absolute	Dominant I	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
				Species Across Air Strata (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	_	Total % Cover of: Multiply by:
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 species15
2.				FACU species0 x 4 =0
				UPL species0 x 5 =0
3				Column Totals: 45 (A) 80 (B)
4				(b)
5				Prevalence Index = B/A =1.77
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9.				2 - Dominance Test is >50%
<u> </u>	0	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 % of total cover	20 /6 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)  1. Persicaria sagittata	15	V	ODI	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		Yes	OBL	
2. Panicum virgatum	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Scirpus atrovirens	10	Yes	OBL	be present, unless disturbed or problematic.
4. Boehmeria cylindrica	5	No	FACW	Definitions of Four Vegetation Strata:
5		·		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
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
	45	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 22.5		total cover:	_	
Woody Vine Stratum (Plot size: 30 )		_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cove	er	Present? Yes No
50% of total cover: 0		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			
The manual (more and more more or an apparation of	,			

Sampling Point: wleb111e\_w

Profile Desc	cription: (Describe to	the depth	needed to docur	nent the in	dicator	or confirm	the ab	osence of indicators.)
Depth	Matrix			x Features				
(inches) 0-12	Color (moist) 10YR 1/1	% 95 1	Color (moist) 0YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> PL		tture Remarks CL
			_					
		<del></del> -						
			_					
								<del></del>
			_					
1				<del></del> .			2.	
Type: C=C  Hydric Soil	oncentration, D=Deple Indicators:	etion, RM=R	educed Matrix, MS	S=Masked S	Sand Gra	ains.	Locat	tion: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be	. ,	e (S8) <b>(N</b>	II RA 147.	148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	,	,			(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		✓ Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (LF	RR N,	Iron-Mangan		s (F12) <b>(</b> I	LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 13 Umbric Surfa	•	/II D A 13	6 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				.8)	wetland hydrology must be present,
-	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):				, (		<u>′</u>	
Type:								
	ches):						Hvdr	ric Soil Present? Yes No
Remarks:			<del></del>				,	
rtomanto.								



Photo 1
Wetland data point wleb111e\_w facing northwest



Photo 2
Wetland data point wleb111e\_w facing southeast

Project/Site: Atlantic Coast Pipeline		City/C	County: Lewis		Sampling Date: 4/7/2015			
Applicant/Owner: Dominion					Sampling Point: wleb111_u			
			on, Township, Range: No					
Landform (hillslope, terrace, etc.): hill slo								
Subregion (LRR or MLRA): N	Lat:	39.14170241	Long: -80.	53628771	Datum: WGS 1984			
Soil Map Unit Name: Vandalia silt loam,	25 to 35 perce	ent slopes		NWI classific	eation: None			
Are climatic / hydrologic conditions on th	e site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or I	-lydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or I								
SUMMARY OF FINDINGS – At	-							
Hydrophytic Vegetation Present?	Yes	No 🗸						
Hydric Soil Present?		No 🗸	Is the Sampled Area	Vaa	No 🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; checl	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		(B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)			• ,	Moss Trim Li				
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction						
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer		<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>				
Iron Deposits (B5)		Other (Explain in Nei	ilaiks)		Position (D2)			
Inundation Visible on Aerial Image	rv (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	., (= . ,			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
Surface Water Present? Yes	No	Depth (inches):						
Water Table Present? Yes	No	Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland F	Wetland Hydrology Present? Yes No				
Describe Recorded Data (stream gaug	e, monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
Remarks.								

Sampling Point: wleb111_u
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20	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 20	Species?	Status FACU	Number of Dominant Species
1. Acer saccharum		Yes		That Are OBL, FACW, or FAC:0 (A)
2. Quercus rubra	10	Yes	FACU	Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				Species / terese / til etiata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:15	20% of	total cover:_	6	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Acer saccharum	10	Yes	FACU	FAC species0 x 3 =0
2. Fagus grandifolia	10	Yes	FACU	FACU species60 x 4 =240
				UPL species0 x 5 =0
3				60 240
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 4
6				Trevalence index = D/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
40		= Total Cove	er 1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:10	20% of	total cover:_	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				·
1. Polystichum acrostichoides	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8.				
^				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	10	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:_	2	Woody vine All woody vines greater than 2.39 ft in
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4				Hydrophytic
5				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.)			
Training (market price name and note of an a coparate of	,			

Sampling Point: wleb111\_u

Profile Desc	cription: (Describe to	the depth n	eeded to docum	ent the inc	licator or confi	rm the a	bsence of indicators.)
Depth	Matrix			Features		_	
(inches) 0-12	Color (moist) 7.5YRYR 3/4	100	Color (moist)	<u></u> %	Type <sup>1</sup> Loc <sup>2</sup>		xture Remarks SCL
			_				
			<u> </u>				
			-				
1Type: C-C	oncentration, D=Deple	tion PM-Pe	duced Matrix MS		and Grains	<sup>2</sup> l occ	ation: PL=Pore Lining, M=Matrix.
Hydric Soil		tion, Kivi=Ke	duced Matrix, MS	=iviaskeu S	and Grains.	LUC	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)	_		. ,	(S8) <b>(MLRA 1</b> 4	17, 148)	Coast Prairie Redox (A16)
	stic (A3)	_			VILRA 147, 148		(MLRA 147, 148)
	en Sulfide (A4)	_	Loamy Gleye		2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	_	Depleted Mat				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S				Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11) _	_ Depleted Dar _ Redox Depres		-7)		Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(LF</b>	RR N,			(F12) <b>(LRR N,</b>		
	A 147, 148)	, <u>-</u>	MLRA 136		,,,,,,		
	Gleyed Matrix (S4)	=	Umbric Surfac	ce (F13) <b>(M</b>	LRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)	=			s (F19) <b>(MLRA</b>		wetland hydrology must be present,
	Matrix (S6)	=	Red Parent M	aterial (F21	) <b>(MLRA 127</b> , 1	47)	unless disturbed or problematic.
	Layer (if observed):						
			•				
	ches):					Hyd	dric Soil Present? Yes No
Remarks:							



Photo 1
Upland data point wleb111\_u facing northwest



Photo 2
Upland data point wleb111\_u facing southeast

Project/Site: Southeast Reliability	ity Pipeline Project	t City/C	County: Lewis		Sampling Date: 6/12/2014			
Applicant/Owner: Dominion State: WV Sampling Po								
Investigator(s): GB, TP		Section Section	on, Township, Range: No	o PLSS in this area	1			
Landform (hillslope, terrace, etc	.): flat at toe of slo	ope Local rel	ief (concave, convex, no	ne): microtopogra	ohy Slope (%): 3			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Sensabau	gh silt loam			NWI classific	ation: None			
Are climatic / hydrologic condition	ons on the site typi	ical for this time of year? Y	′es No	(If no, explain in R	emarks.)			
Are Vegetation , Soil	, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances" p	resent? Yes No			
Are Vegetation, Soil								
					, important features, etc.			
Lhudranhutia Vanatatian Duasa		. No		<u> </u>	· · ·			
Hydrophytic Vegetation Present Hydric Soil Present?	Yes	V No	Is the Sampled Area	4				
Wetland Hydrology Present?		No No	within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicator	rs:			Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum o		check all that apply)		Surface Soil				
✓ Surface Water (A1)	n ono lo roquilou,	(B14)		getated Concave Surface (B8)				
High Water Table (A2)		or (C1)	<u>✓</u> Drainage Pat					
Saturation (A3)		Moss Trim Li						
Water Marks (B1)		d Iron (C4)		Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface (0	C7)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aeri				Shallow Aquitard (D3)				
Water-Stained Leaves (BS	∌)			Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Aquatic Fauna (B13)			<u> </u>	FAC-Neutral	Test (D5)			
Field Observations:	Van V Na	Danth (inch as)	1					
Surface Water Present? Water Table Present?		Depth (inches): Depth (inches):	0					
Saturation Present?		Depth (inches):	0 Wetlend I	Hydrology Presen	t? Yes ✔ No			
(includes capillary fringe)	res NO_	Deptil (iliches)	welland i	nyurology Fresen	itr res No			
Describe Recorded Data (stream	am gauge, monitor	ring well, aerial photos, pre	evious inspections), if ava	ailable:				
Damania								
Remarks:								

•	Absolute	Dominant I		Dominance Test worksheet:
Free Stratum   (Plot size:	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
<u>.</u>				Total Number of Dominant Species Across All Strata:  5 (B)
				Species Across All Strata: (B)  Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 80 (A/B)
)				Prevalence Index worksheet:
·	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	er O	OBL species x 1 = 54
0070 01 10101 00701.	20% of	total cover:_		FACW species x 2 = 40
Sapling/Shrub Stratum (Plot size:)	4	Vaa	ODI	22 60
Salix nigra	4	Yes	OBL	FAC species x 3 = 9
Rosa multiflora	4	Yes	FACU	FACU species x 4 =
3				UPL species x 5 = 207
l <u>.</u>				Column Totals: (A) (B)
5.				Prevalence Index - R/A - 1.91
S				Trevalence mack = b/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
3				2 - Dominance Test is >50%
)	8			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 4		= Total Cove	r 1.6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
00 70 G1 total GGVG1.	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Carex vulpinoidea	30	Yes	OBL	
Juncus effusus	20	Yes	FACW	<sup>1</sup> Indicators of hydric soil and watland hydrology must
3. Carex lupulina	20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Holcus lanatus	15	No	FAC	Definitions of Four Vegetation Strata:
5. Rumex crispus	8	No	FAC	Definitions of Four Vegetation Otrata.
5. Festuca rubra	7	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
7				height.
3.				
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	100			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 50		= Total Cove total cover:_		of size, and woody plants less than 3.28 ft tall.
0070 01 total 00001.	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
(1 tot 0.201				height.
l,				
2				
3				
4				Hydrophytic
5.				Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover:0		total cover:_	_	
		10101 00101		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Depth	Matrix	0/		x Features	<del>.</del> + 1	. 2	<b>-</b> .	5
(inches) 0-18	Color (moist) 10YR4/1	<u>%</u> 80	Color (moist) 7.5YR4/6	<u> </u>	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SCL	Remarks
0-10								
			7.5YR4/6	15	C	M		
	-							
								<u> </u>
	-							
								-
	-							· -
				. <del></del> .			2	
	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	Location: F	PL=Pore Lining, M=Matrix.
-	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface		/ <del>-</del> - \ /-			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		. , .		148) (	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)	_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		-2)		١	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		C)		,	(MLRA 136, 147)
	uck (A10) (LRR N)	o (A11)	Redox Dark		•			/ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Dar Redox Depre				_ `	other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangan			DD N		
	A 147, 148)	-NN IN,	MLRA 13		5 (F12) <b>(</b>	LININ IN,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MI D A 13	6 122)	3Inc	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):		110011 0101111	natoriai (i i	- 1 / <b>(11121</b> )		,	noce dictarbed of problematic.
Type: no								
							Unadaia Cai	I Brasanta Van V
Depth (in	cnes):						Hydric Soi	I Present? Yes No
emarks:								



Photo 1
Wetland data point WLEB002e\_w facing south



Photo 2
Wetland data point WLEB002e\_w facing east

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/12/2014				
Applicant/Owner: Dominion		State: WV Sampling Point: wleb002_u				
Investigator(s): GB and TP	Section, Township, Range: No	PLSS in this area				
Landform (hillslope, terrace, etc.): toe of slope	Local relief (concave, convex, nor	ne): none Slope (%): <sup>5</sup>				
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Sensabaugh silt loam		NWI classification: None				
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No (	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Normal	Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology _						
		ons, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes	No_ V Is the Sampled Area					
	No 4/					
	No v within a Wetland?	Yes No				
Remarks:						
LIVERALANY						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; c		Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Saturation (A3)	<ul><li>Hydrogen Sulfide Odor (C1)</li><li>Oxidized Rhizospheres on Living Roots (C3)</li></ul>	Drainage Patterns (B10) Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C4)	Moss Trim Lines (B16) 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:						
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland H	lydrology Present? Yes No				
	ng well, aerial photos, previous inspections), if ava	ilable:				
Remarks:						
No hydrology indicators.						

Sampling	Point: wleb002_u
Januaria	i Ollit. –

•	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				T. IN I CD
3				Total Number of Dominant Species Across All Strata:  4 (B)
_				Species Across Air Strata (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Dravelance in deviverhelsest.
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 0 )				FACW species0 x 2 =0
1 Rosa multiflora	8	Yes	FACU	FAC species55
"				FACU species 48 x 4 = 192
2				0 0
3				UPL species $\begin{array}{c} 0 \\ 103 \\ \end{array}$ $\begin{array}{c} x \ 5 = \\ \end{array}$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.46
				Trevalence mack = B/TC =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	8	= Total Cover		
50% of total cover: 4	20% of	total cover:	1.6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 0 )				data in Remarks or on a separate sheet)
1 Festuca rubra	25	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Verbesina alternifolia	20	Yes	FAC	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Holcus lanatus	20	Yes	FAC	be present, unless disturbed or problematic.
4. Dichanthelium clandestinum	15	No	FAC	Definitions of Four Vegetation Strata:
5. Dactylis glomerata	15	No	FACU	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				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	
Woody Vine Stratum (Plot size: 0 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
,				height.
1				
2				
2				
3				
				Hydrophytic
3. 4.				Hydrophytic Vegetation
3				Hydrophytic Vegetation Present?  Yes No
3. 4. 5.		Total Cover	0	Vegetation
3	0 : 20% of			Vegetation
3. 4. 5.	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation
3	0 : 20% of	Total Cover		Vegetation

Sampling Point: wleb002\_u

Profile Desc	cription: (Describe t	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redox	x Features		. 2	_		_		
(inches)	Color (moist) 10YR3/4	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL		Remar	ks	
0-18	101R3/4	100	_				SCL				
			-								
					-						
	-							-			
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P				
Hydric Soil	Indicators:						Indic	ators for P	roblematic	Hydric Sc	oils³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	(A10) <b>(MLR</b>	A 147)	
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfa	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairi	e Redox (A	16)	
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	47, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	F2)		F	Piedmont Fl	oodplain So	oils (F19)	
Stratified	d Layers (A5)		Depleted Mat					(MLRA 1	36, 147)		
	uck (A10) (LRR N)		Redox Dark S					•	w Dark Surf	, ,	
Depleted	d Below Dark Surface	(A11)	Depleted Dar					Other (Expla	ain in Rema	rks)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,					
	A 147, 148)		MLRA 130	•			3				
	Sleyed Matrix (S4)		Umbric Surfa						ydrophytic	-	
	Redox (S5)		Piedmont Flo					-	ology must l		
	Matrix (S6)		Red Parent M	faterial (F	21) <b>(MLR</b>	A 127, 147	<u>')</u> un	less disturb	ped or probl	ematic.	
Restrictive	Layer (if observed):										
Type: no	TIE .										
Depth (in	ches):						Hydric Soi	Present?	Yes	No _	
Remarks:							1				



**Photo 1**Upland data point WLEB002\_u facing west



Photo 2 Upland data point WLEB002\_u facing north

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/13/2014			
Applicant/Owner: DOMINION		State: WV Sampling Point: WLEA003e_w			
Investigator(s): GB, TP, LE, SK					
Landform (hillslope, terrace, etc.): SIDES,OPE AT					
Subregion (LRR or MLRA): N	Lat: 39.14353288 Long: -80.	.49333486 Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Upshur silt loams, 35 t	to 70 percent slopes, severely eroded	NWI classification: 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 "Norma	al Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology					
		ons, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	✓ No lathe Complet Asso				
	Is the Sampled Area	Yes V No			
	✓ No within a Wetland?	Yes No			
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; of	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):				
	Depth (inches): 11				
		Hadada War V			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):4 Wetland I	Hydrology Present? Yes V No No			
	ing well, aerial photos, previous inspections), if ava	ailable:			
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 Deminerat
3				Total Number of Dominant Species Across All Strata: 2 (B)
4.				Operics / toross / till otrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		
	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species0 x 3 =0
2				FACU species5
		-		UPL species0 x 5 =0
3				Column Totals: 100 (A) 135 (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =1.35
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	^	T		✓ 3 - Prevalence Index is ≤3.0¹
50% of total cover:	=	= Total Cover	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<u></u>	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Typha latifolia	45	Yes	OBL	1 Toblematic Trydrophytic Vegetation (Explain)
2. Carex lupulina	20	Yes	OBL	1
3. Carex vulpinoidea	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Persicaria pensylvanica	10	No	FACW	
5. Juncus effusus	10	No	FACW	Definitions of Four Vegetation Strata:
6. Agastache urticifolia	5	No		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			FACIL	more in diameter at breast height (DBH), regardless of
7. Solidago altissima		No	FACU	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 Cavas		<b>Herb</b> – 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 total cover:		or size, and woody plants less than 3.20 it tall.
0070 01 10101 00701.	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0 =			Vegetation Present?  Yes No
50% of total cover: 0		= Total Cover	0	
30 % of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: WLEA003e\_w

SOIL

Depth	Matrix			x Features		. 2	<b>-</b> .	
(inches) 0-5	Color (moist) 10YR 3/2	<u>%</u> 85	Color (moist) 7.5YR 4/6	<u>%</u> 15	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture COSL	Remarks
			7.511 4/0			F L/IVI		· <del></del>
5-18	GLEY 1 2.5/1	100					SCL	
	-							
					-			
		·						
5.mar. C. C	'anaantration D Dan	leties DM	A Dadwaad Matrix MC	Mookod	Cond Cr		<sup>2</sup> l acation: D	Doro Lining M. Motrix
	oncentration, D=Dep	letion, RIV	1=Reduced Matrix, MS	s=iviasked	Sand Gr	ains.	Location: P	PL=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
•			Dorle Curfoso	(07)				
_ Histoso	pipedon (A2)		Dark Surface Polyvalue Be		oo (CO) <b>(N</b>	AI DA 147		2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su		. , .		140) (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		2)		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		✓ Redox Dark S	, ,	6)		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar		•			Other (Explain in Remarks)
	ark Surface (A12)	- ( )	Redox Depre		. ,		<del></del>	
	Mucky Mineral (S1) (I	RR N,	Iron-Mangane			LRR N,		
	A 147, 148)	,	MLRA 130		, , ,	,		
	Gleyed Matrix (S4)		Umbric Surfa	-	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent M	1aterial (F2	21) <b>(MLR</b>	A 127, 147	un	nless disturbed or problematic.
estrictive	Layer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil	l Present? Yes No
emarks:								
.oman.or								



Photo 1 Wetland data point WLEA003\_w



**Photo 2** Wetland data point WLEA003\_w

Project/Site: SERP	City/County:	Lewis	Sampling Date: 6/13/2014
Applicant/Owner: DOMINION			Sampling Point: WLEA003_u
Investigator(s): GB, TP, LE, SK			
Landform (hillslope, terrace, etc.): SIDESLOP		ncave, convex, none): none	
Subregion (LRR or MLRA): N			Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams,	35 to 70 percent slopes, severely en	oded NWI clas	sification: None
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	✓ No (If no, explain i	in Remarks.)
Are Vegetation, Soil, or Hydrole	ogy significantly disturbed?	Are "Normal Circumstance	es" present? Yes No
Are Vegetation, Soil, or Hydrole			
SUMMARY OF FINDINGS – Attach			
Hydrophytic Vegetation Present? Yes	s No		
	No 4	Sampled Area	🗸
	No Withi	n a Wetland? Yes	No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			dicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	_	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on L		m Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (		son Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	<ul><li>Recent Iron Reduction in Til</li><li>Thin Muck Surface (C7)</li></ul>		Burrows (C8) n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		or Stressed Plants (D1)
Iron Deposits (B5)	<u> </u>		ohic Position (D2)
Inundation Visible on Aerial Imagery (B7			Aquitard (D3)
Water-Stained Leaves (B9)			ographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neu	itral Test (D5)
Field Observations:			
	o Depth (inches):		
	o Depth (inches):		
Saturation Present? Yes N (includes capillary fringe)	o V Depth (inches):	Wetland Hydrology Pre	esent? Yes No
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous i	nspections), if available:	
Remarks:			

### **VEGETATION** (Four Strata) - Us

			Dominant		Dominance Test	worksheet:			
ee Stratum (Plot size: 30			Species?		Number of Domin		:	0	(A)
					Total Number of I				,
					Species Across A	II Strata:		1	(B)
					Percent of Domin That Are OBL, FA		: <u></u>	0	(A/E
		<u> </u>			Prevalence Inde	x worksheet	::		
		0	= Total Cove		Total % Cove	er of:	Multi	ply by:	
50%	of total cover:		total cover:	^	OBL species	0	x 1 =	0	
	15	20 /0 01	total cover.		FACW species	0	x 2 =	^	_
pling/Shrub Stratum (Plot size:					FAC species	0	x 3 =	^	_
					FACU species	101	x 4 =	404	_
					UPL species _	Λ		0	_
					-	101	x 5 =	404	
					Column Totals: _		(A)		(B
						Index = $B/A$		4	
					Hydrophytic Veg	•			
					1 - Rapid Tes	ot for Hudronk	hytic Veg	etation	
					1 - Kapiu res	ы тушторг	ilytic vegt	otation	
					2 - Dominand		-	Station	
					-	ce Test is >50	0%	olulion	
		0	= Total Cove		2 - Dominano	ce Test is >50 ce Index is ≤3	0% 3.0 <sup>1</sup>		portir
50%		0			2 - Dominano 3 - Prevaleno 4 - Morpholo	ce Test is >50 ce Index is ≤3	0% 3.0 <sup>1</sup> tions <sup>1</sup> (Pro	ovide sup	
50% erb Stratum (Plot size:5		0 20% of	= Total Cover:	0	2 - Dominano 3 - Prevaleno 4 - Morpholo data in Re	ce Test is >50 ce Index is ≤3 gical Adaptat emarks or on	0% 3.0 <sup>1</sup> ions <sup>1</sup> (Pro a separat	ovide sup te sheet)	
50% erb Stratum (Plot size: 5 Festuca rubra		0 20% of	= Total Cover:_ total cover:_ Yes	FACU	2 - Dominano 3 - Prevaleno 4 - Morpholo	ce Test is >50 ce Index is ≤3 gical Adaptat emarks or on	0% 3.0 <sup>1</sup> ions <sup>1</sup> (Pro a separat	ovide sup te sheet)	
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens		0 20% of 60 15	= Total Cover:	FACU FACU	2 - Dominand 3 - Prevalend 4 - Morpholog data in Re Problematic I	ce Test is >50 ce Index is ≤3 gical Adaptat emarks or on Hydrophytic \	0% 3.0 <sup>1</sup> dions¹ (Pro a separat √egetation	ovide sup te sheet) n¹ (Expla	in)
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima		0 20% of 60 15 15	= Total Cover:_ total cover:_ Yes	FACU FACU FACU	2 - Dominand 3 - Prevalend 4 - Morpholog data in Re Problematic I	ce Test is >50 ce Index is ≤3 gical Adaptat emarks or on Hydrophytic \ ric soil and w	0%  3.0 <sup>1</sup> cions <sup>1</sup> (Pro a separativegetation	ovide sup te sheet) n <sup>1</sup> (Expla drology i	in)
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium		0 20% of 60 15	= Total Cover:_ total cover:_ Yes No	FACU FACU	2 - Dominand 3 - Prevalence 4 - Morpholog data in Re Problematic I  Indicators of hyd be present, unles	ce Test is >50 ce Index is ≤3 gical Adaptate emarks or on Hydrophytic \ ric soil and w s disturbed o	0%  3.0 <sup>1</sup> cions <sup>1</sup> (Pro a separat Vegetation  vetland hy or problem	ovide sup te sheet) n <sup>1</sup> (Expla drology i natic.	in)
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium		0 20% of 60 15 15	= Total Covertotal cover:  Yes No No	FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hyd be present, unles  Definitions of Fo	ce Test is >50 ce Index is ≤3 gical Adaptate emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetation	0% 3.0 <sup>1</sup> cions <sup>1</sup> (Pro a separat Vegetation Vetland hy or problem	ovide supte sheet)  of (Explain drology)  drology of the control o	in) must
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium		0 20% of 60 15 15 7	= Total Cover: total cover: Yes No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalend 4 - Morpholog data in Re Problematic I  Indicators of hyd be present, unles  Definitions of Fo	ce Test is >50 ce Index is <3 gical Adaptate emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin	0% 3.01 cions1 (Pro a separat Vegetation vetland hy or problem on Strata	ovide sup te sheet) n¹ (Expla drology natic. :	in) must
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium		0 20% of 60 15 15 7	= Total Cover: total cover: Yes No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalend 4 - Morpholog data in Re Problematic I  Indicators of hyd be present, unles  Definitions of Fo	ce Test is >50 ce Index is <3 gical Adaptate emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin	0% 3.01 cions1 (Pro a separat Vegetation vetland hy or problem on Strata	ovide sup te sheet) n¹ (Expla drology natic. :	in) must
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium		0 20% of 60 15 15 7	= Total Cover: total cover: Yes No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalend 4 - Morpholog data in Re Problematic I  Indicators of hyd be present, unles  Definitions of Fo	ce Test is >50 ce Index is <3 gical Adaptate emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin	0% 3.01 cions1 (Pro a separat Vegetation vetland hy or problem on Strata	ovide sup te sheet) n¹ (Expla drology natic. :	in) must
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale	of total cover:(	0 20% of 60 15 15 7 4	= Total Cover: total cover: Yes No No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hyd be present, unles  Definitions of Formation of Formatio	ce Test is >50 ce Index is ≤3 gical Adaptatemarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant	20% 3.01 sions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH)	ovide supte sheet)  drology ratic.  :  3 in. (7.6), regard	in) must cm) c less o
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale	of total cover:(	0 20% of 60 15 15 7 4	= Total Covertotal cover:  Yes No No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hyd be present, unles  Definitions of Formation of Formatio	ce Test is >50 ce Index is ≤3 gical Adaptatemarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant	20% 3.01 sions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH)	ovide supte sheet)  drology ratic.  :  3 in. (7.6), regard	in) must cm) o
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4	= Total Covertotal cover:  Yes No No No No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hyd be present, unles  Definitions of Formation of Formatio	ce Test is >50 ce Index is ≤3 gical Adaptatemarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant	20% 3.01 sions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH)	ovide supte sheet)  drology ratic.  :  3 in. (7.6), regard	in) must cm) o
50% erb Stratum (Plot size: Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale	of total cover:(	0 20% of 60 15 15 7 4	= Total Cover:  Yes  No  No  No	FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hyd be present, unles  Definitions of Formatic In the second plant of the sec	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant and greater that eeous (non-w-	a separative getland hyper problem on Stratang vines, 3 ght (DBH)	ovide supte sheet) of (Explandrology natic.  in 3 in. (7.6), regard ing vinesal to 3.28	cm) of less of stricts of the strict o
erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale	of total cover:(	0 20% of 60 15 15 7 4	= Total Cove total cover:  Yes No No No No Total cover  Total Cove	FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Re Problematic I  Indicators of hyd be present, unles  Definitions of Form Tree – Woody pla more in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant and greater that eeous (non-w-	a separative getland hyper problem on Stratang vines, 3 ght (DBH)	ovide supte sheet) of (Explandrology natic.  in 3 in. (7.6), regard ing vinesal to 3.28	cm) of less of stricts of the strict o
50% erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale	of total cover:	0 20% of 60 15 15 7 4	= Total Cover:  Yes  No  No  No	FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hyd be present, unles  Definitions of Formatic In the second plant of the sec	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
solvento Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4 	Total Covering total cover:  Yes No No No No Total covering total	FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hydrogy be present, unles  Definitions of Formation Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbactof size, and woods	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4	= Total Covertotal cover:  Yes No No No No Total cover:  = Total Cover:	FACU FACU FACU FACU FACU 20.2	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hydrogy be present, unless  Definitions of Formation  Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbactof size, and woods  Woody vine – All	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4 	= Total Cover:  Yes No No No No Total Cover:  Total Cover:  Total Cover:  Total Cover:	FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hydrogy be present, unless  Definitions of Formation  Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbactof size, and woods  Woody vine – All	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4 	= Total Cover:  Yes No No No No Total Cover:  Total Cover:  Total Cover:  Total Cover:	FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hydrogy be present, unless  Definitions of Formation  Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbactof size, and woods  Woody vine – All	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4 	Total Covering total cover:  Yes No No No No Total covering total	FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hyd be present, unles  Definitions of Formatic In the second plant of the second plant of the second plant of size, and wood woody vine – All height.	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa	ovide supte sheet)  of (Explain drology in the sheet)  atric.  ing vines all to 3.28  onts, regard  of tall.	cm) c
50% erb Stratum (Plot size:	of total cover:(	0 20% of 60 15 15 7 4 	Total Covering total cover:  Yes No No No No Total covering total	FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Resemble Problematic I  Indicators of hydrogy be present, unless  Definitions of Formation  Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbactof size, and woods  Woody vine – All	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant nd greater tha ceous (non-w by plants less I woody vines	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa coody) pla than 3.28 s greater the	drology natic.  3 in. (7.6 ), regard ing vinesal to 3.28 han 3.28	cm) celess celess celes fit (1
solidago altissima Achillea millefolium Allium vineale  1	of total cover:(	0 20% of 60 15 15 7 4 	= Total Covertotal cover:  Yes No No No No Total Cover:  = Total Cover:  = Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hyd be present, unles  Definitions of Formatic In the second plant of the second plant of the second plant of size, and wood woody vine – All height.  Hydrophytic	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant d greater tha eeous (non-w by plants less	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa coody) pla than 3.28 s greater the	drology natic.  3 in. (7.6 ), regard ing vinesal to 3.28 han 3.28	cm) celess celess celes ft (1
erb Stratum (Plot size: 5 Festuca rubra Trifolium repens Solidago altissima Achillea millefolium Allium vineale  0	of total cover:(	0 20% of 60 15 15 7 4 	= Total Covertotal cover:  Yes No No No No Total Cover:  = Total Cover:  = Total Cover:	FACU FACU FACU FACU FACU FACU FACU FACU	2 - Dominand 3 - Prevalence 4 - Morphology data in Research Problematic I  Indicators of hydrogology be present, unles  Definitions of Formation Tree – Woody playmore in diameter height.  Sapling/Shrub – than 3 in. DBH arm) tall.  Herb – All herbact of size, and wood woody vine – All height.  Hydrophytic Vegetation	ce Test is >50 ce Index is <3 gical Adaptat emarks or on Hydrophytic \ ric soil and w s disturbed o our Vegetatio ants, excludin at breast heig  Woody plant nd greater tha ceous (non-w by plants less I woody vines	3.01 ions1 (Pro a separat Vegetation vetland hy or problem on Strata ng vines, 3 ght (DBH) ts, excludi an or equa coody) pla than 3.28 s greater the	drology natic.  3 in. (7.6 ), regard ing vinesal to 3.28 han 3.28	cm) c

Sampling Point: WLEA003\_u

Profile Desc	cription: (Describe t	o the dep	th needed to docu	ment the i	indicator	or confirm	the abser	nce of indicators.)
Depth	Matrix			x Feature	s ,			
(inches) 0-7	Color (moist) 10YR 3/3	<u>%</u> 100	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
7-18	10YR 3/3	75	10 YR 4/1	25	RM	М	SCL	
				-		·		
¹Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	 S=Masked	d Sand Gr	ains.	<sup>2</sup> Location:	
Hydric Soil		,	,					dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		ce (S8) (N	/ILRA 147,	148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			· · · · · · · · · · · · · · · · · · ·		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depre					- , ,
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13		, , ,			
	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (	(MLRA 13	86, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	Matrix (S6)		Red Parent I					unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NO	ONE							
Depth (in	ches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point WLEA003\_u



**Photo 2** Upland data point WLEA003\_u

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/13/2014
Applicant/Owner: DOMINION		_ State: WV Sampling Point: WLEA002e_w
Investigator(s): GB, TP, LE, SK	Section, Township, Range: No	
	AT SLOPE Local relief (concave, convex, nor	
Subregion (LRR or MLRA): N		49336781 Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams,	35 to 70 percent slopes, severely eroded	NWI classification: None
Are climatic / hydrologic conditions on the site	ypical for this time of year? Yes No (	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrol	ogy significantly disturbed? Are "Normal	Circumstances" present? Yes No
	pgy naturally problematic? (If needed, e	
	site map showing sampling point locatio	
Hydrophytic Vegetation Present? Yes	No latha Samulad Assa	
	Is the Sampled Area	Yes ✔ No
	within a Wetland?	res No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require		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)	<del></del>	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:	<b>V</b> 5 4 6 1 3	
	o Depth (inches):	
	o Deptn (inches):	
Saturation Present? Yes Ves North No	o Depth (inches):4 Wetland H	lydrology Present? Yes No
	itoring well, aerial photos, previous inspections), if ava	ilable:
Remarks:		

Sampling Point: WLEA002e_	002e_w	t·WLE/	Poin	lina	Samo	Ç
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				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				Sporice / torode / till othera.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:  OBL species 75 x 1 = 75
50% of total cover: 0	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species0 x 3 =0
				FACU species5 x 4 =20
2		-		UPL species
3		<del></del>		100 135
4				Column Totals:(A)(B)
5				Prevalence Index = B/A = 1.35
6				Trevalence index = B/T(=
				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0¹
	0	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size: <sup>5</sup> )				data in Remarks or on a separate sheet)
1 Typha latifolia	45	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lupulina	20	Yes	OBL	
3. Juncus effusus	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Persicaria pensylvanica	10	No	FACW	Definitions of Four Vegetation Strata:
5. Carex vulpinoidea	10	No	OBL	
6. Solidago altissima	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Agastache urticifolia	5	No		more in diameter at breast height (DBH), regardless of height.
8.				g
•				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
	105	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5		total cover:		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Lhudrombusio
5.				Hydrophytic Vegetation
	0 -	= Total Cover		Present? Yes No
50% of total cover:		total cover:	0	
30 % of total cover		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: WLEA002e\_w

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	7)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  This continuation of the continu	7)
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Very coll Indicators:   Indicators for Problematic Hyd	7)
ydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Matrix (F12)  Depleted Matrix (F2)  Depleted Dark Surface (F7)  Redox Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  MLRA 136,  Depleted Dark Surface (F12) (LRR N, MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
Histosol (A1)	7)
ydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stratiped Matrix (S4)  Sandy Redox (S5)  Stratiped Matrix (S6)  Stratified Layers (A5)  Depleted Dark Surface (F13) (MLRA 136, 122)  Sandy Mucky Mineral (S6)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  (MLRA 147, 148)  MLRA 136,  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
ydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Matrix (F12)  Depleted Matrix (F2)  Depleted Dark Surface (F7)  Redox Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  MLRA 136,  Depleted Dark Surface (F12) (LRR N, MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
ydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 147, 148)  Indicators for Problematic Hydrogen Froblematic Hydrogen (A10) (MLRA 141)  Coast Prairie Redox (A16)  (MLRA 147, 148)  (MLRA 147, 148)  Piedmont Floodplain Soils (F  (MLRA 136, 147)  Very Shallow Dark Surface (F6)  Depleted Dark Surface (F7)  Tother (Explain in Remarks)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Which A 136)  Umbric Surface (F13) (MLRA 136, 122)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Wetland hydrology must be problemate estrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
Histosol (A1)	7)
Mydric Soil Indicators:	7)
ydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depleted Matrix (F12)  Depleted Matrix (F2)  Depleted Dark Surface (F7)  Redox Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  MLRA 136,  Depleted Dark Surface (F12) (LRR N, MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
Histosol (A1)	7)
Histosol (A1)	7)
Histosol (A1)	7)
ydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stratiped Matrix (S4)  Sandy Redox (S5)  Stratiped Matrix (S6)  Stratified Layers (A5)  Depleted Dark Surface (F13) (MLRA 136, 122)  Sandy Mucky Mineral (S6)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  (MLRA 147, 148)  MLRA 136,  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes	7)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stratified Layers (A55) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Piedmont Floodplain Soils (F (MLRA 147, 148) Piedmont Floodplain Soils (F (MLRA 136, 147) Very Shallow Dark Surface ( Other (Explain in Remarks)  MLRA 147, 148)  Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Bestrictive Layer (if observed):  Type: Depth (inches):  Hydric Soil Present? Yes	7)
Histic Epipedon (A2)	
Black Histic (A3)	·19)
Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F	·19)
Stratified Layers (A5) Depleted Matrix (F3) Very Shallow Dark Surface (F6) Very Shallow Dark Surface (F7) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vege	
2 cm Muck (A10) (LRR N)	.5)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6)  Extrictive Layer (if observed):  Type: Depth (inches):  Depth (inches	TF12)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	,
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)    Sandy Redox (S5)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be pr Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problemate  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes	tation and
Pestrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes	
Type:	ic.
Depth (inches): Hydric Soil Present? Yes	
	No



Photo 1 Wetland data point WLEA002e\_w facing east



Photo 2
Wetland data point WLEA002e\_w facing south

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/13/2014
Applicant/Owner: DOMINION					Sampling Point: WLEA002_u
Investigator(s): GB, TP, LE, SK					
Landform (hillslope, terrace, etc.): SIDE					Slope (%): <u>45</u>
Subregion (LRR or MLRA): N					Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt I	oams, 35 to 70 pe	rcent slopes, seve	rely eroded	NWI classification	ation: None
Are climatic / hydrologic conditions on th	e site typical for th	nis time of year? Y	es No (	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or I	Hydrology	significantly disturl	oed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or I					
SUMMARY OF FINDINGS – A	-				
Hydrophytic Vegetation Present?	Yes	No. 🗸			
Hydric Soil Present?	Yes		Is the Sampled Area	.,	🗸
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	required; check al	l that apply)		Surface Soil (	Cracks (B6)
Surface Water (A1)	Tru	ue Aquatic Plants (l	B14)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		drogen Sulfide Ode		Drainage Pat	terns (B10)
Saturation (A3)			• ,	Moss Trim Li	, ,
Water Marks (B1)		esence of Reduced			Water Table (C2)
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)		in Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Oti	ner (Explain in Ren	narks)		ressed Plants (D1)
Inundation Visible on Aerial Image	rv (B7)			Geomorphic   Shallow Aqui	
Water-Stained Leaves (B9)	.y ( <i>D1</i> )				phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	
Field Observations:					
Surface Water Present? Yes	No 🗸 D	epth (inches):			
		epth (inches):			
Saturation Present? Yes	No 🖍 D	epth (inches):	Wetland H	lydrology Presen	t? Yes No
(includes capillary fringe)	a manitaring wall	acrial photos pro	viewe inequations) if ave	ilahla	
Describe Recorded Data (stream gaug	e, monitoring weil	, aeriai priotos, pre	vious irispections), ii ava	liable.	
Remarks:					

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

Sapling/Shrub Stratum (Plot size: 15 )

2. Solidago altissima

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_\_ 1. Festuca rubra

3. Trifolium repens

4. Achillea millefolium

5. Allium vineale

Four Str	ata) – Use scientific r		-		Sampling Point: WLEA002_u
size:	30 )	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
3126.	,	<u> </u>	<u>opecies:</u>	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
					Total Number of Dominant Species Across All Strata: 1 (B)
					Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
			· <del></del>		Prevalence Index worksheet:
		0	= Total Cove		Total % Cover of: Multiply by:
	50% of total cover:		total cover:	0	OBL species0 x 1 =0
tum (Plot :	15	20 /0 01	total cover.		FACW species0 x 2 =0
<u>turri</u> (i lot .	SIZE				FAC species 0 x 3 = 0
		· ——			FACU species 101 x 4 = 404
		-			UPL species $0 \times 5 = 0$
					Column Totals: 101 (A) 404 (B)
					Column rotals (A) (B)
					Prevalence Index = B/A = 4
					Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
					2 - Dominance Test is >50%
		0	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	50% of total cover:		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
t size:	5		_		data in Remarks or on a separate sheet)
		60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
па		15	No	FACU	
!		15	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
um		7	No	FACU	be present, unless disturbed or problematic.
		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.
					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
		101	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 50.		total cover:		or oles, and mossy plants loss than oles it tain
m (Plot siz	20 .		-		Woody vine – All woody vines greater than 3.28 ft in height.
					Hydrophytic
		0	- Total Carr		Vegetation   Present?   Yes   No
			= Total Cove	<b>5</b> 1	

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

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

Sampling Point: WLEA002\_u

Profile Desc	ription: (Describe to	o the dep	th needed to docui	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Features	S			
(inches) 0-7	Color (moist) 10YR 3/3	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
7-18	10YR 3/3	75	10 YR 4/1	25	RM	М	SCL	
			-		-			
				·				
					-		-	
				-				
							-	
	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(00) (1			2 cm Muck (A10) <b>(MLRA 147)</b>
Histic Ep	oipedon (A2)		Polyvalue Be Thin Dark Su				148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)	1	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	,	· <i>-</i> /		<u> </u>	(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark	. ,	·6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da				(	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 13 Umbric Surfa	-	MI DA 13	6 122)	3In	dicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I					nless disturbed or problematic.
Restrictive I	_aver (if observed):			•				,
Type: NO	DNE							
	ches):						Hydric So	il Present? Yes No
Remarks:								



Photo 1
Upland data point WLEA002\_u facing west



Photo 2 Upland data point WLEA002\_u facing north

Project/Site: SERP		City/C	county: Lewis		Sampling Date: 6/13/2014
Applicant/Owner: DOMINION					Sampling Point: WLEA001s_w
Investigator(s): GB, TP, SK, LE					
Landform (hillslope, terrace, etc.					Slope (%): <u>45</u>
Subregion (LRR or MLRA): N	L	at: 39.14296031	Long: -80.4	49350077	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Ups	shur silt loams, 35 to	70 percent slopes, seve	rely eroded	NWI classific	ation: None
Are climatic / hydrologic condition	ons on the site typica	I for this time of year? Y	′es No	(If no, explain in R	emarks.)
					oresent? Yes No
Are Vegetation, Soil					
-					, important features, etc.
Hydrophytic Vegetation Preser		No			<del>-</del>
Hydric Soil Present?		No	Is the Sampled Area		
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicator	···			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum o		ack all that apply)		Surface Soil	
	-		D14)		
Surface Water (A1) High Water Table (A2)		<ul><li>True Aquatic Plants (</li><li>Hydrogen Sulfide Oden</li></ul>		Sparsely ve(	getated Concave Surface (B8)
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)	_	Recent Iron Reductio	` '	Crayfish Buri	
Drift Deposits (B3)	<u> </u>	Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rer			tressed Plants (D1)
Iron Deposits (B5)				Geomorphic	Position (D2)
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aqui	itard (D3)
Water-Stained Leaves (B9	<del>)</del> )			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?	Yes No	Depth (inches):	0 Wetland F	lydrology Presen	t? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (streat	am gauge, monitoring	g well, aerial photos, pre	vious inspections), if ava	ilable:	
(3.1.1	33.,	, , , , , , , , , , , , , , , , , , , ,	.,,		
Remarks:					
Saturated from 0-3" above clay	layer, perched wate	r table.			

### VEGETATION (Four Strata) - Use scientification - Use scientificati

	Absolute	plants.  Dominant	Indicator	Dominance Test worksheet:	
e Stratum (Plot size:)	% Cover	Species?		Number of Dominant Species	<b>(                                    </b>
				That Ale Obe, I AGW, OF I AG.	(A)
				Total Number of Dominant Species Across All Strata:  4	(B)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:100	(A/I
				Prevalence Index worksheet:	
	0	= Total Cove	er	Total % Cover of: Multiply by:	
50% of total cover: 0		total cover:	0	OBL species x 1 = 105	
pling/Shrub Stratum (Plot size: 15 )		_		FACW species x 2 =40	
Salix nigra	45	Yes	OBL	FAC species0 x 3 =0	
	· <del></del>			FACU species10	
				UPL species0 x 5 =0	
				Column Totals: 135 (A) 185	(E
				Prevalence Index = B/A =1.37	
	· - <u></u>				
				Hydrophytic Vegetation Indicators:	
				✓ 1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
	45	= Total Cove		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 22.		total cover:	^	4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orti
F	20 /0 01	total cover.		data in Remarks or on a separate sheet)	
urb Stratum (Plot size:) Carex vulpinoidea	30	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
Typha latifolia	30	Yes	OBL		
	20			<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
Juncus effusus	· ———	Yes	FACW	be present, unless disturbed or problematic.	
Festuca rubra	10	No	FACU	Definitions of Four Vegetation Strata:	
				The West plants and discussions 2 in 77 Com	\
				Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles	
				height.	,,,,
				Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than or equal to 3.28 ft	
				m) tall.	٠,١
	· <del></del>				
•	90	= Total Cove		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	ies
50% of total cover: 45		total cover:	4.0	5. 5.25, and woody plants loss than 5.20 it tall.	
	20 /0 01	.J.u. 00VCI		Woody vine – All woody vines greater than 3.28 ft	t in
/ lot 0/20				height.	
				Hydrophytic	
				Hydrophytic Vegetation	
		= Total Cove	er		

US Army Corps of Engineers

Depth	Matrix		Redox	Features	_ 1	. 2	_	
inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-3	10YR 3/3	100					CL	
3-18	10YR 4/3	35					С	
	10YR5/1	60	10YR4/6	5	С	PL		
			1011(4/0					
	-							
	-	_	-				-	
Type: C=C	oncentration, D=De	oletion, RM	l=Reduced Matrix, MS	=Masked S	and Grai	ns.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
	Indicators:	,	, -			-	Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel		(S8) (MI	RA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Sur					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed			,,	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mati	•	-,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	ce (A11)	Depleted Dark	, ,				Other (Explain in Remarks)
	ark Surface (A12)	` ,	Redox Depres	•	,			,
	Mucky Mineral (S1)	LRR N,	Iron-Mangane		(F12) <b>(L</b>	RR N,		
	A 147, 148)		MLRA 136		` , `			
	Gleyed Matrix (S4)		Umbric Surfac	•	LRA 136	, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floo					etland hydrology must be present,
-	d Matrix (S6)		Red Parent M					less disturbed or problematic.
N4 * **	Layer (if observed)	):						·
<b>kestrictive</b>	Layer (ii observed)							
<b>Restrictive</b> Type: Cl	LAY LAY	,-						
Type: CI	LAY	,- 					Hydric Soil	Present? Ves V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: CI Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: CI Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: CI Depth (in	LAY						Hydric Soil	Present? Yes V No No
Type: CI	LAY						Hydric Soil	Present? Yes V No
Type: CI	LAY						Hydric Soil	Present? Yes V No
Type: CI Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: CI	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: Cl Depth (in	LAY						Hydric Soil	Present? Yes V No
Type: CI Depth (in	LAY						Hydric Soil	Present? Yes V No



Photo 1 Wetland data point WLEA001s\_w facing east



Photo 2
Wetland data point WLEA001s\_w facing south

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/13/2014
Applicant/Owner: DOMINION		State: WV Sampling Point: WLEA001_u
Investigator(s): GB, TP, LE, SK	Section, Township, Range: No	
Landform (hillslope, terrace, etc.): SIDESLOPE		
Subregion (LRR or MLRA): N		9354553 Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams, 35	to 70 percent slopes, severely eroded	NWI classification: None
Are climatic / hydrologic conditions on the site type	ical for this time of year? Yes No (l	lf no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	/ significantly disturbed? Are "Normal	Circumstances" present? Yes No
	/ naturally problematic? (If needed, ex	
	ite map showing sampling point location	
Hydrophytic Vegetation Present? Yes _	No V Is the Sampled Area	
	is the Sampled Area	, , , , , , , , , , , , , , , , , , ,
	No within a Wetland?	Yes No
Remarks:	<u> </u>	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required:		Surface Soil Cracks (B6)
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)		Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	<ul><li>Crayfish Burrows (C8)</li><li>Saturation Visible on Aerial Imagery (C9)</li></ul>
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:		
	Depth (inches):	
	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland H	ydrology Present? Yes No
	oring well, aerial photos, previous inspections), if avail	lable:
Remarks:		

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

\_\_\_\_)

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

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

50% of total cover: 50.5 20% of total cover: 20.2

50% of total cover: 0 20% of total cover: 0

30

Sapling/Shrub Stratum (Plot size: 15 )

3. Solidago altissima

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

Tree Stratum (Plot size:

Herb Stratum (Plot size: 1. Festuca rubra

2. Trifolium repens

5. Allium vineale

4. Achillea millefolium

nes of	plants.		Sampling Point: \( \)	VLEA001_u
bsolute	Dominant Ir		Dominance Test worksheet:	
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
			Total Number of Dominant Species Across All Strata:	1 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A
			Prevalence Index worksheet:	
0	= Total Cover		Total % Cover of: Mu	ultiply by:
	total cover:	0	OBL species0 x 1 =	0
2070 01			FACW species0 x 2 =	0
			FAC species 0 x 3 =	0
			FACU species 101 x 4 =	404
			UPL species 0 x 5 =	0
			101	404
			Column Totals: (A)	(E
			Prevalence Index = B/A =	4
			Hydrophytic Vegetation Indicators	
			1 - Rapid Test for Hydrophytic V	egetation
			2 - Dominance Test is >50%	
0			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	= Total Cover total cover:	0	4 - Morphological Adaptations <sup>1</sup> (I	Provide support
20% 01	lotal cover		data in Remarks or on a sepa	rate sheet)
60	Yes	FACU	Problematic Hydrophytic Vegeta	tion <sup>1</sup> (Explain)
15	No	FACU		
15	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland	hydrology must
			be present, unless disturbed or proble	ematic.
7	No No	FACU	Definitions of Four Vegetation Stra	ıta:
4	No No	FACU	Tree – Woody plants, excluding vines more in diameter at breast height (DE height.	
			Sapling/Shrub – Woody plants, excl than 3 in. DBH and greater than or ed m) tall.	
	= Total Cover	000	Herb – All herbaceous (non-woody) of size, and woody plants less than 3	
_ 20% 01	total cover:		Woody vine – All woody vines greate height.	er than 3.28 ft ir
	= Total Cover		Hydrophytic Vegetation Present? Yes No	o <u> </u>
20% of	total cover:	0		

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

Sampling Point: WLEA001\_u

Profile Des	cription: (Describe t	to the de	oth needed to docur	nent the i	ndicator	or confirn	n the abser	nce of indicators.)
Depth	Matrix		Redo	x Feature		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
0-7	10YR 3/3	100						
7-18	10YR 3/3	75	10 YR 4/1	25	RM	M	SCL	
		-			-	· ——	-	
								<u> </u>
					-	. ——		
	·							
1- 0.0						·	21	
	Concentration, D=Deplindicators:	letion, RN	I=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
•							inc	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	. ,	(65) =			_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Ma		-0)			(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> ed Below Dark Surface	· (A11)	Redox Dark Depleted Da					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ed Below Dark Surface Park Surface (A12)	# (A11)	Redox Depre				_	_ Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			IRRN		
	A 147, 148)		MLRA 13		C3 (1 12) (	LIXIX IN,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	86 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):		red r droner	viatoriai (i	21) <b>(III.Z.</b> )		· ,	unicoo distarbed or problematic.
Type: N	ONE							
Depth (ir	iches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point WLEA001\_u facing north



Photo 2
Upland data point WLEA001\_u facing west

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/13/2014				
Applicant/Owner: DOMINION		State: WV Sampling Point: WLEA004e_w				
Investigator(s): GB, LE, SK, TP	Section, Township, Range: N					
	OF SLOPE Local relief (concave, convex, n					
		0.49146572 Datum: WGS 1984				
Soil Map Unit Name: Janelew channery silt loan	ı, steep	NWI classification: None				
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrolog	gy significantly disturbed? Are "Norm	al Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrolog	gynaturally problematic? (If needed	, explain any answers in Remarks.)				
		ions, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes	V No					
	No ls the Sampled Area within a Wetland?	Yes No				
	✓ No	165140				
Remarks: Saturated PEM wetland located along the toe o	f slope associated with a strip mine cut. Outflow to	stream SLEB006.				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required	; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3					
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) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)	<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>				
Algal Mat of Crust (B4) Iron Deposits (B5)	Other (Explain in Kemarks)	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Snailow Aquitard (D3) 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):					
	Depth (inches):	Hydrology Present? Yes <u>✓</u> No				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections), if a	vailable:				
Julia (chicain gauge, meim	og, aa. p, p					
Remarks:						
SOIL IS SATURATED FROM 0-5" DUE TO WA	TER SEEPING FROM THE SLOPE CUT					

Sampling Point	WLEA004e_	_W
----------------	-----------	----

20	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				That Are OBE, FACW, of FAC.
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				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
50% ()		= Total Cover	0	OBL species $59$ $\times 1 = 59$
50% of total cover: 0	20% of	total cover:		FACW species $20$ $\times 2 = 40$
Sapling/Snrub Stratum (Plot size:)				FAC species 15 x 3 = 45
1,				7 20
2				FACU species $\frac{7}{28}$ $\times 4 = \frac{28}{28}$
3				UPL species $0 \times 5 = 0$ $172 \times 5 = 0$
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.7
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				∠ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
•		= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Typha latifolia	25	Yes	OBL	1 robiematic riyarophytic vegetation (Explain)
2. Carex lupulina	20	Yes	OBL	1 Indicators of hydric soil and watland hydrology must
3. Juncus effusus	12	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex vulpinoidea	10	No	OBL	Definitions of Four Vegetation Strata:
5. Cinna latifolia	8	No	FACW	
6. Equisetum arvense	8	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Festuca rubra	7	No	FACU	height.
8. Juncus tenuis	7	No	FAC	
9. Rhynchospora divergens	4	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.			_	m) tall.
11.				Horb. All herbesseus (non woody) plants, regardless
	101	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:50.5		total cover:		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2				
3				
4.				
5.				Hydrophytic Vegetation
<u>.                                    </u>	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s				
Tremains. (meduce photo humbers here of our a separate s	ricci.)			

Depth	Matrix	0/		ox Features	<del>.</del> + 1	. 2	<b>-</b> .	<b>5</b>
(inches) 0-8	Color (moist) 10YR 5/1	<u>%</u> 75	Color (moist) 10YR 5/8	<u>%</u> 25	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	Texture SIC	Remarks
8-18	10 YR 5/1	80	10YR 6/6	20	C	PL/M	SC	
					-			
		-		<u> </u>				
		-		<u> </u>				
			-					
	oncentration, D=Dep	letion, RM	1=Reduced Matrix, M	1S=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
-	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surfac		·- (CO) (I	AL DA 447		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue B				148) (	Coast Prairie Redox (A16)
	listic (A3) en Sulfide (A4)		Thin Dark S Loamy Gley			147, 140)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted M		2)		'	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark		6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da	•	•			Other (Explain in Remarks)
	ark Surface (A12)	C (/ (1 1)	Redox Depi		. ,		_ `	outer (Explain in Remarks)
	Mucky Mineral (S1) (I	LRR N.	Iron-Manga			LRR N.		
	A 147, 148)		MLRA 1		,o (i iz) (			
	Gleyed Matrix (S4)		Umbric Surf	•	MLRA 13	36, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont F					etland hydrology must be present,
	d Matrix (S6)		Red Parent					less disturbed or problematic.
	Layer (if observed):	<u> </u>			- · / <b>(····</b>	,	, <u></u>	
Type: CI	LAÝ `							
Depth (in							Hydric Soil	Present? Yes V No No
emarks:							1	



Photo 1 Wetland data point WLEA004e\_w facing north



Photo 2
Wetland data point WLEA004e\_w facing south

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/13/2014
Applicant/Owner: DOMINION			· <del></del>		_ Sampling Point: WLEA004_U
			n, Township, Range: No		
Landform (hillslope, terrace, etc.): FL					Slope (%): 5
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Janelew channe	ery silt loam, steep			NWI classifica	tion: None
Are climatic / hydrologic conditions or					
Are Vegetation, Soil,					
Are Vegetation, Soil,					
SUMMARY OF FINDINGS -					
			pinig point rocano	,	
Hydrophytic Vegetation Present?	Yes N		Is the Sampled Area		,
Hydric Soil Present? Wetland Hydrology Present?	Yes N Yes N		within a Wetland?	Yes	No
Remarks:	resN	10			
HADBOLOGA					
HYDROLOGY Westernel Hydrology Indicators:				Casandan Indiaat	ara (minimum of tuo required)
Wetland Hydrology Indicators:	io roquirod: abook all	that apply)			ors (minimum of two required)
Primary Indicators (minimum of one	-			Surface Soil C	
Surface Water (A1) High Water Table (A2)		e Aquatic Plants (I Irogen Sulfide Odd		Sparsely vege Drainage Patt	etated Concave Surface (B8)
Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Lin	
Water Marks (B1)		sence of Reduced	= : : :		/ater Table (C2)
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burro	
Drift Deposits (B3)		n Muck Surface (C			ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		er (Explain in Rem			essed Plants (D1)
Iron Deposits (B5)				Geomorphic F	Position (D2)
Inundation Visible on Aerial Ima	agery (B7)			Shallow Aquita	ard (D3)
Water-Stained Leaves (B9)					phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral 1	Test (D5)
Field Observations:	4/ -				
	No De				
	No De				
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	pth (inches):	Wetland H	lydrology Present	? Yes No
Describe Recorded Data (stream ga	auge, monitoring well,	aerial photos, pre	vious inspections), if avail	ilable:	
Remarks:					
no indicators					

EGETATION (Four Strata)	) – Use scientific na	ames of	plants.		Sampling Point: WLEA004_U
	0	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 3			Species?		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					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 0 (A/B)
6					Prevalence Index worksheet:
1		0	= Total Cover		Total % Cover of: Multiply by:
5	0% of total cover:		total cover:	0	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size:	15				FACW species0 x 2 =0
1					FAC species15
2					FACU species85
3					UPL species x 5 =
4					Column Totals:(A)(B)
5					Prevalence Index = R/A = 3.95
6					Trevalence maex = B/TC =
7					Hydrophytic Vegetation Indicators:
8					1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
9					2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹
		0	= Total Cover		4 - Morphological Adaptations¹ (Provide supporting
		20% of	total cover:	0	data in Remarks or on a separate sheet)
TIEID Stratum (Flot Size.	<u>5</u> )				Problematic Hydrophytic Vegetation¹ (Explain)
1. Festuca rubra		75	Yes	FACU	Problematic Hydrophytic Vegetation (Explain)
2. Juncus tenuis		15	No No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Leucanthemum vulgare		10	No No	UPL	be present, unless disturbed or problematic.
4. Trifolium repens		10	No	FACU	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		110			Herb – All herbaceous (non-woody) plants, regardless
5	0% of total cover: 55		= Total Cover total cover:	22	of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:		2070 01	total 00voi		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1	/				height.
2.					
3.					
4					
5.	_				Hydrophytic Vegetation
	_	0	= Total Cover		Present? Yes No
5	0% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers	s here or on a separate sh	neet.)			

Sampling Point: WLEA004\_U

Profile Desc	ription: (Describe t	o the dep	th needed to docur	ment the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Features	3			
(inches) 0-6	Color (moist) 10YR 4/2	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SIC	Remarks
6-18	10YR 5/3	50	10 YR 4/4	50	С	M	SCL	
					-			
							-	
							-	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion RM=	Reduced Matrix M	S=Masked	Sand Gr	ains	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		Juon, ruivi-	-reduced Matrix, IVI	<u>0=Masked</u>	Odrid On	airio.		cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147.		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				· ,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		!	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	, ,				(MLRA 136, 147)
	ıck (A10) <b>(LRR N)</b>		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da				(	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) <b>(L</b> . <b>\ 147, 148)</b>	KK N,	Iron-Mangan		es (F12) (	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	6. 122)	3In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I					nless disturbed or problematic.
	Layer (if observed):		<del>-</del>	`			1	,
Type:								
Depth (inc	ches):						Hydric Soi	il Present? Yes No
Remarks:							1 -	



Photo 1 Upland data point WLEA004\_u facing south



Photo 2 Upland data point WLEA004\_u facing north

Project/Site: Atlantic Coast Pipe	eline	City/C	county: Lewis		Sampling Date: 12/17/2014			
Applicant/Owner: Dominion				State: WV	_ Sampling Point: wleb105e_w			
Investigator(s): TP, RH Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc	.): drainage way	Local reli	ef (concave, convex, nor	ne): concave	Slope (%):2			
Subregion (LRR or MLRA): N	Lat	39.13760228	Long: <u>-80.</u> 4	47300246	Datum: WGS 1984			
Soil Map Unit Name: Janelew of	hannery silt loam, stee	р		NWI classifica	ation: None			
Are climatic / hydrologic condition	ons on the site typical f							
Are Vegetation , Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes 🔽 No			
Are Vegetation, Soil								
-					important features, etc.			
Hydrophytic Vegetation Prese								
Hydric Soil Present?	Yes V	No	Is the Sampled Area		.,			
Wetland Hydrology Present?			within a Wetland?	Yes	No			
Remarks:								
SLEB106.								
HYDROLOGY								
Wetland Hydrology Indicato				<u> </u>	tors (minimum of two required)			
Primary Indicators (minimum o	•			Surface Soil (				
Surface Water (A1)		True Aquatic Plants (			etated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Ode		✓ Drainage Pat				
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li				
Water Marks (B1)		Presence of Reduced Recent Iron Reductio	` '		Vater Table (C2)			
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (C		Crayfish Burn	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Ren			ressed Plants (D1)			
Iron Deposits (B5)	_	Caror (Explain in real	namo)	Geomorphic I	· · · ·			
Inundation Visible on Aeri	al Imagery (B7)			Shallow Aquit				
Water-Stained Leaves (B9	9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)			
Field Observations:								
Surface Water Present?	Yes No							
Water Table Present?	Yes No		11					
Saturation Present?	Yes No	Depth (inches):	0 Wetland H	lydrology Presen	t? Yes <u>'</u> No			
(includes capillary fringe)  Describe Recorded Data (stream)	am gauge monitoring	well aerial photos pre	vious inspections) if ava	ilahle:				
Describe Necorded Data (Street	am gauge, monitoring	well, aeriai priotos, pre	vious irispections), ii ava	madic.				
Remarks:								

Sampling	Point: wleb105e_	W
Sambillu	FUILL	

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				
3				Total Number of Dominant Species Across All Strata:  4 (B)
4				Species Across Air Strata(b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove	_	Total % Cover of: Multiply by:
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 species x 3 = 0
2				FACU species0 x 4 =0
				UPL species0 x 5 =0
3				Column Totals: 50 (A) 85 (B)
4				(r)(b)
5				Prevalence Index = B/A =1.7
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
8				
9.				2 - Dominance Test is >50%
<u> </u>	0	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 5		total cover:_	2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 % of total cover	20 /6 01	iolai covei		data in Remarks or on a separate sheet)
TIEID Stratum (Fiot Size.	15	V	EAC)4/	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Boehmeria cylindrica		Yes	FACW	
2. Dulichium arundinaceum	15	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Onoclea sensibilis	10	Yes	FACW	be present, unless disturbed or problematic.
4. Juncus effusus	10	Yes	FACW	Definitions of Four Vegetation Strata:
5				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
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
	50	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25		total cover:_		
Woody Vine Stratum (Plot size: 30 )		· <del>- · ·</del>		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	er	Present? Yes No
50% of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate si				
Tremarks. (molade prote numbers here of on a separate si	11001.)			

Sampling Point: wleb105e\_w

	cription: (Describe t	o the dep				or confirm	the absence	of indicators.)
Depth	Matrix	0/	Redox	K Feature	S1	1 - 2	<b>T t</b>	Devente
(inches) 0-12	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> PL	<u>Texture</u> C	Remarks
0-12	10114/1	95	10114/0			- FL		
						. ——		
						· <del></del>		
						· ——		
1Typo: C-C	concentration, D=Deple	otion DM	-Poducod Matrix MS	-Mackad	d Sand Gr	oine	<sup>2</sup> Location: D	L=Pore Lining, M=Matrix.
Hydric Soil		elion, Kivi	=Reduced Matrix, Mc	=ivia5ket	J Sanu Gi	airis.		ators for Problematic Hydric Soils <sup>3</sup> :
-			Davis Confess	(07)				•
Histoso			Dark Surface	. ,	(00) (1	41 DA 447		cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) C	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)	5	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		-0)			(MLRA 136, 147)
	uck (A10) (LRR N)	(111)	Redox Dark S	,	,			(ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(ATT)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDA		
	Mucky Mineral (S1) (L	KK N,	Iron-Mangane		es (F12) <b>(</b>	LKK N,		
	A 147, 148)		MLRA 136	•	(MIL D.A. 40	0 400\	31	Parton of hadron bards are not offered
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M	faterial (F	·21) (MLR	A 127, 147	<b>')</b> un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil	Present? Yes No
Remarks:							•	



Photo 1 Wetland data point wleb105e\_w facing north



Photo 2
Wetland data point wleb105e\_w facing south

Project/Site: Atlantic Coast Pipeline	City/Co	ounty: Lewis	Sampling Date: 12/17/2014				
Applicant/Owner: Dominion		State: V	NV Sampling Point: Web105_u				
nvestigator(s): TP, RH Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): hill slope							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Janelew channery silt loa	m, steep	NWI	classification: None				
Are climatic / hydrologic conditions on the site	ypical for this time of year? Ye	es No (If no, exp	lain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturb	ed? Are "Normal Circumsta	ances" present? Yes No				
Are Vegetation, Soil, or Hydrold							
SUMMARY OF FINDINGS – Attach							
Hydrophytic Vegetation Present? Yes	No_ 🗸						
	No. 4	Is the Sampled Area	s No				
	No	within a Wetland? Yes	s NO				
Remarks: Upland point taken on hill slope, resulting from	mine operations						
Opiand point taken on nill slope, resulting from	i mine operations.						
HYDROLOGY							
Wetland Hydrology Indicators:			ry Indicators (minimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (B		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odo		nage Patterns (B10)				
Saturation (A3)							
Water Marks (B1)		Season Water Table (C2)					
Sediment Deposits (B2)							
Drift Deposits (B3)		Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	, <u> </u>	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		Microtopographic Relief (D4) FAC-Neutral Test (D5)					
Aquatic Fauna (B13)		FAC-	-Neutral Test (D5)				
Field Observations:  Surface Water Present? Yes N	o Depth (inches):						
	o Depth (inches):						
	o Depth (inches):		Wetland Hydrology Present? Yes No				
(includes capillary fringe)			retiand hydrology Present? Tes No				
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, prev	ious inspections), if available:					
Remarks:							

Sampling	Point: wleb105_u
Sambillu	FUILL

00	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Acer rubrum	80	Yes	FAC	That Are OBL, FACW, or FAC:2 (A)
2				
				Total Number of Dominant Species Across All Strate: 4 (B)
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:50 (A/B)
6				
7.				Prevalence Index worksheet:
·· <del>·</del>	80	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 47.5			19	OBL species $0 \times 1 = 0$
15	20% of	total cover:_		
Sapling/Shrub Stratum (Plot size:)				. 00 070
1. Acer rubrum	10	Yes	FAC	FAC species X3 = O
2. Fagus grandifolia	10	Yes	FACU	FACU species x 4 = 80
3.		<u> </u>		UPL species0 x 5 =0
				Column Totals: 110 (A) 350 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =3.18
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove	r	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 10	20% of	total cover:_	4	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Polystichum acrostichoides	10	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
''			17100	
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				O and the miles with a Management and a supplied to a supp
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
10				,
11				Herb - All herbaceous (non-woody) plants, regardless
	10	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:_	2	Was devices. All was devices are stored as 2 20 ft in
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				Height.
1				
2				
3				
4				Ukralnombratio
5.				Hydrophytic Vegetation
<u> </u>	0	Tatal Caus		Present? Yes No
50% of total cover: 0		= Total Cove	r 0	<u> </u>
50% of total cover:0	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wleb105\_u

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-12	10YR 2/1	100					SCL	_		
								_		
					-					
								_		
								_		
	·				-					
										_
	-				-					
					-					
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.			ning, M=Matrix	
Hydric Soil	Indicators:						Ind		Problematic H	-
Histosol			Dark Surface						(A10) <b>(MLRA</b>	•
	oipedon (A2)		Polyvalue Be				148)		ie Redox (A16	)
	stic (A3)		Thin Dark Su			47, 148)		(MLRA 1		
	en Sulfide (A4)		Loamy Gleye		F2)				loodplain Soils	s (F19)
	d Layers (A5)		Depleted Mar					(MLRA 1		(== 1.0)
	uck (A10) (LRR N)	(0.4.4)	Redox Dark	•	,				w Dark Surfac	
	d Below Dark Surface	(ATT)	Depleted Dar					Otner (Expi	ain in Remark	S)
	ark Surface (A12) /lucky Mineral (S1) <b>(L</b> l	DD N	Redox Depre Iron-Mangan			DDM				
	A 147, 148)	NN N,	MLRA 13		55 (F12 <i>)</i> (	LKK N,				
	Gleyed Matrix (S4)		Umbric Surfa	•	MI RA 13	6 122)	3	ndicators of	hydrophytic ve	agetation and
	Redox (S5)		Piedmont Flo						ology must be	-
	Matrix (S6)		Red Parent N					-	bed or probler	-
	Layer (if observed):				, <b>(</b>		<del>'</del>	4	200 0. p. 02.0.	
Type:										
	ohoo):		<del>_</del>				Uvdria C	oil Present?	Voc	No 🗸
Depth (in			_				nyuric 3	Oli Fresent?	Yes	
Remarks:										
soils were dai	rk due to presence of	coal seams.								



Photo 1 Upland data point wleb105\_u facing north



Photo 2 Upland data point wleb105\_u facing south

Project/Site: SERP	City/Co	unty: Lewis	Sampling Date: 6/14/2014
Applicant/Owner: DOMINION		State: WV	
Investigator(s): GB, TP, LE, SK	Section	n, Township, Range: No PLSS in this a	area
Landform (hillslope, terrace, etc.): SIDESLOPE	Local relief	f (concave, convex, none): microtopo	graphy Slope (%): <sup>5</sup>
Subregion (LRR or MLRA): N La	<sub>tt:</sub> 39.14183512	Long: -80.47026804	Datum: WGS 1984
Soil Map Unit Name: Janelew channery silt loam, ste	ер	NWI clas	sification: None
Are climatic / hydrologic conditions on the site typical			
Are Vegetation, Soil, or Hydrology	significantly disturbe	ed? Are "Normal Circumstance	es" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problemati	ic? (If needed, explain any ans	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site i			cts, important features, etc.
Hydrophytia Vagatation Present?	No.		
, , , ,	Nia	Is the Sampled Area	<b>v</b>
Wetland Hydrology Present? Yes   ✓	No No	within a Wetland? Yes	No
Remarks:			
Data point for a saturated PEM Wetland. Area is a followers and types with considerable amounts of coal pexcavated in an attempt to partially drain the feature.	particles mixed throughou	it. Disturbance by cattle is severe; nu	imerous small ditches have been
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface S	Soil Cracks (B6)
Surface Water (A1)	_ True Aquatic Plants (B	14) Sparsely	Vegetated Concave Surface (B8)
	_ Hydrogen Sulfide Odor		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres	s on Living Roots (C3) Moss Trii	m Lines (B16)
Water Marks (B1)	Presence of Reduced I	Iron (C4) Dry-Seas	son Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	in Tilled Soils (C6) Crayfish	Burrows (C8)
	_ Thin Muck Surface (C7		n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rema	arks) Stunted o	or Stressed Plants (D1)
Iron Deposits (B5)		Geomorp	phic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow A	Aquitard (D3)
Water-Stained Leaves (B9)		<del>_</del> ·	ographic Relief (D4)
Aquatic Fauna (B13)		<u>✓</u> FAC-Neu	ıtral Test (D5)
Field Observations:			
Surface Water Present? Yes No			
Water Table Present? Yes No			
Saturation Present? Yes _ V No	Depth (inches):0	Wetland Hydrology Pre	sent? Yes V No No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previ	ious inspections), if available:	
Remarks:			

Sampling Point: WLEA005e
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20	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Barrant of Barrinant Caracina
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0		total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )	<del></del>			FACW species19
1				FAC species12 x 3 =36
2		<del></del>		FACU species12 x 4 =48
				UPL species 0 x 5 = 0
3				Column Totals: 113 (A) 192 (B)
4				(*)
5				Prevalence Index = B/A =1.69
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				
1. Carex vulpinoidea	40	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lupulina	15	Yes	OBL	
3. Festuca rubra	12	Yes	FACU	¹Indicators of hydric soil and wetland hydrology must
4. Juncus effusus	10	No	FACW	be present, unless disturbed or problematic.
5. Cyperus diandrus	9	No	FACW	Definitions of Four Vegetation Strata:
6. Typha latifolia	8	No	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Rhynchospora gracilenta	7	No	OBL	more in diameter at breast height (DBH), regardless of
8. Holcus lanatus	7	No No	FAC	height.
	5	No No	FAC	Sapling/Shrub – Woody plants, excluding vines, less
g. Juncus tenuis			170	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
50.5		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:56.5	20% of	total cover:	22.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
	,			

Depth	Matrix			x Features	<del>-</del> 1	. 2	<b>-</b> .	5 .
( <u>inches)</u> 0-18	Color (moist) 10YR 5/1	<u>%</u> 90	Color (moist) 7.5YR 4/6	<u>%</u> 4	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SC	Remarks
0-10	1011 3/1							
			10YR 5/8	6	С	M		
					-			
								-
							_	
	oncentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators:						Indic	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			:	2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfac	e (S8) <b>(N</b>	ILRA 147,	148)	Coast Prairie Redox (A16)
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	3)		,	Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		(	Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	)			
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	s (F12) (	_RR N,		
MLRA	147, 148)		MLRA 13					
	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)	3In	dicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain Sc	ils (F19)	(MLRA 14	<b>8)</b> w	etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	Naterial (F2	21) <b>(MLR</b>	A 127, 147	) uı	nless disturbed or problematic.
Restrictive L	ayer (if observed):							
	V							
Type: Cla	y						Hydric So	il Present? Yes 🖊 No
Type: clay								
Depth (inc								<u> </u>
Depth (inc	ches):	rin mino						
Depth (inc		rip mine					1 -	
Depth (inc	ches):	rip mine	_					
Depth (inc	ches):	rip mine					-	
Depth (inc	ches):	rip mine						
Depth (inc	ches):	rip mine						
Depth (inc	ches):	rip mine					1 -	
Depth (inc	ches):	rip mine					1 -	
Depth (inc	ches):	rip mine					1 -	
Depth (inc	ches):	rip mine					1 -	
Depth (inc	ches):	rip mine					1 -	
Depth (inc	ches):	rip mine						
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Depth (inc	ches):	rip mine						
Depth (inc	ches):	rip mine						
Depth (inc	ches):	rip mine						
Depth (inc	ches):	rip mine						



**Photo 1**Wetland data point WLEA005e\_w facing northeast



Photo 2
Wetland data point WLEA005e\_w facing west

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/14/2014
Applicant/Owner: DOMINION		State: WV Sampling Point: WLEA005_u
	Section, Township, Range: No Pl	· -
Landform (hillslope, terrace, etc.): Sideslope		
Subregion (LRR or MLRA): N Lat:	39.14189229 Long: -80.470	032929 Datum: WGS 1984
Soil Map Unit Name: Janelew channery silt loam, steel	Long	None None
Are climatic / hydrologic conditions on the site typical for		
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, exp	lain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling point locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No. V	
	No. 4/	Yes No
Wetland Hydrology Present? Yes	No within a Wetland?	Yes No
Remarks:		
Upland data point for a saturated PEM wetlland. Area		is now used as pasture. Soils are a mixture of
different layers and types with considerable amounts of	of coal particles mixed throughout.	
HYDROLOGY		
Wetland Hydrology Indicators:	<u>Se</u>	econdary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check	call that apply)	_ Surface Soil Cracks (B6)
	True Aquatic Plants (B14)	_ Sparsely Vegetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C1)	_ Drainage Patterns (B10)
	Oxidized Rhizospheres on Living Roots (C3)	_ Moss Trim Lines (B16)
	Presence of Reduced Iron (C4)	_ Dry-Season Water Table (C2)
	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	Thin Muck Surface (C7)  Other (Explain in Remarks)	<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	<del>-</del>	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	<del>-</del>	Microtopographic Relief (D4)
Aquatic Fauna (B13)	_	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
	Depth (inches): Wetland Hyd	Irology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspections), if availab	ble:
Remarks:		
no hydrology indicators		

Absolute	Dominant I	ndicator	Dominance Test worksheet:
	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
			Total Number of Dominant Species Across All Strata: 3 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: (A/B
		-	Prevalence Index worksheet:
0	= Total Cove	r	Total % Cover of: Multiply by:
		0	OBL species 7 x 1 = 7
	_		FACW species5
			FAC species0 x 3 =0
			FACU species76 x 4 =304
			UPL species16
			Column Totals: (A) (B)
			0.05
			Prevalence Index = B/A =3.85
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
0	- Total Covo		3 - Prevalence Index is ≤3.0 <sup>1</sup>
		0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
		-	data in Remarks or on a separate sheet)
50	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	Yes	FACU	
10	Yes	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8	No	FACU	be present, unless disturbed or problematic.
6	No	UPL	Definitions of Four Vegetation Strata:
5	No	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
5	No	FACW	more in diameter at breast height (DBH), regardless of height.
4	No	OBL	noight.
3	No	FACU	Sapling/Shrub – Woody plants, excluding vines, less
3	No	OBL	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
104			<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			or size, and woody plants loss than 5.20 it tall.
			<b>Woody vine</b> – All woody vines greater than 3.28 ft in
			height.
			Hydrophytic
0	Tatal Caus		Vegetation Present? Yes No
	= Total Cove	0	
20% of	total cover:_	U	
	0 20% of 50 10 10 8 6 5 5 4 3 3 3 104 20% of	0 = Total Cove 20% of total cover:  0 = Total Cove 20% of total cover:  50	0 = Total Cover

Sampling Point: WLEA005\_u

Profile Desc	cription: (Describe to	the depth	needed to docur	nent the in	dicator or co	nfirm th	e absence	of indicators.	)
Depth	Matrix			x Features	4	2			
(inches) 0-18	Color (moist) 10YR 3/3	65 ————————————————————————————————————	Color (moist)	<u></u> %	Type <sup>1</sup> Lo	<u>c²                                    </u>	Texture SCL		Remarks % is coal particles and a
								•	
			<del>-</del>		<del></del>				
				<u></u> -					
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked S	Sand Grains.		_ocation: F	PL=Pore Lining,	M=Matrix.
Hydric Soil		,	,						ematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Dark Surface	(S7)			2	2 cm Muck (A10	) (MLRA 147)
Histic E	pipedon (A2)	,			e (S8) (MLRA		8) (	Coast Prairie Re	edox (A16)
	istic (A3)	,		. , ,	MLRA 147, 1	48)		(MLRA 147, 1	•
	en Sulfide (A4)	;	Loamy Gleye		2)		F		olain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark		١		,	(MLRA 136, 1	ark Surface (TF12)
	d Below Dark Surface	(A11)	Nedox Dark . Depleted Dar					Other (Explain in	
	ark Surface (A12)	(* * * * )	Redox Depre						,
Sandy N	Mucky Mineral (S1) (LI	RR N,	Iron-Mangan			N,			
	A 147, 148)		MLRA 13	•					
	Gleyed Matrix (S4)				ILRA 136, 12			-	ophytic vegetation and
-	Redox (S5)	,			ils (F19) <b>(MLF</b>				y must be present,
	d Matrix (S6)  Layer (if observed):		Red Parent N	/laterial (F2	1) <b>(MLRA 12</b> 7	7, 147)	ur	nless disturbed	or problematic.
Type: no	ne								
			_			١,	Usalvia Cai	I Draggart? V	es No
	ches):		_				nyuric 30i	I Present? Y	es No
Remarks:	l fill in a former strip mi	ine							
son is graded	i illi ili a ioittiei siiip illi	iiie							



Photo 1 Upland data point WLEA005\_u facing northeast



Photo 2
Upland data point WLEA005\_u facing southwest

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/16/2014			
Applicant/Owner: Dominion				State: WV	Sampling Point: WLEB003e_w			
Investigator(s): TP			on, Township, Range: No					
Landform (hillslope, terrace, etc.): floo	dplain at toe of	slope Local rel	ief (concave, convex, no	ne): none	Slope (%): <sup>0</sup>			
Subregion (LRR or MLRA): N	Lat	. 39.1352371	Long: -80.	45595451	Datum: WGS 1984			
Soil Map Unit Name: Water				NWI classific	cation: R5UBH			
Are climatic / hydrologic conditions on	the site typical f	or this time of year? Y						
Are Vegetation, Soil, c	r Hydrology	significantly distur	bed? Are "Norma	l Circumstances" ¡	present? Yes No			
Are Vegetation, Soil, c								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Voc. V	No						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes V	No	Is the Sampled Area					
Wetland Hydrology Present?		No	within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one	s required; chec	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (	(B14)	Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od	· ,	✓ Drainage Pa	atterns (B10)			
Saturation (A3)	<u> </u>	Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	` '			
Water Marks (B1)		Presence of Reduced	` '	Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		Stressed Plants (D1)			
Iron Deposits (B5)	(DZ)				Position (D2)			
Inundation Visible on Aerial Image Water-Stained Leaves (B9)	jery (b/)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)				✓ FAC-Neutral				
Field Observations:				1 AO Neutral	1 1031 (00)			
	No 🗸	Depth (inches):						
<u>-</u>		Depth (inches):						
			11 Wetland I	Hydrology Preser	nt? Yes 🗸 No			
(includes capillary fringe)					100			
Describe Recorded Data (stream ga	uge, monitoring	well, aerial photos, pre	evious inspections), if ava	ailable:				
Remarks:								
Nomano.								

		Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 )		Species?		
	,				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2					
3					Total Number of Dominant Species Across All Strata: 1 (B)
1					
5					Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B
3				,	That Ale Obe, I Aow, Ol I Ao.
7					Prevalence Index worksheet:
		0	= Total Cover		Total % Cover of: Multiply by:
	50% of total cover:0	20% of	total cover:	0	OBL species15 x 1 =15
Sapling/Shrub Stratum (Plot si	ize:)				FACW species x 2 =
l. <u> </u>					FAC species x 3 = 255
2					FACU species x 4 =
3.					UPL species x 5 =
_					Column Totals:(A)(B)
5.					27
_					Prevalence Index = B/A =2.7
7					Hydrophytic Vegetation Indicators:
3					1 - Rapid Test for Hydrophytic Vegetation
9.					2 - Dominance Test is >50%
·		0	= Total Cover		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	50% of total cover:0			0	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
Herb Stratum (Plot size:	5 )		_		data in Remarks or on a separate sheet)
1. Microstegium vimineum	,	85	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Leersia oryzoides		10	No	OBL	
Persicaria sagittata		5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4.					be present, unless disturbed or problematic.
· 5.					Definitions of Four Vegetation Strata:
•					Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
					more in diameter at breast height (DBH), regardless of height.
_					neight.
9.		-			Sapling/Shrub – Woody plants, excluding vines, less
					than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10 11.					
11		100	Tatal Causan		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 50		= Total Cover total cover:	20	of size, and woody plants less than 3.26 it tall.
Woody Vine Stratum (Plot size	20	20 /0 01	total cover		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
	·				height.
·					
n					
_					
3 4					Hydrophytic
3					Vegetation
3 4		0	= Total Cover	0	

Sampling Point: WLEB003e\_w

Depth	Matrix			k Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1	95	10YR.4/6	5	C	PL	SCL	
					-			-
	-				-			
	-				-			
					-			
Type: C=C	oncentration, D=Depl	etion. RM:	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		0	Troducod mann, me	mached	<u> </u>			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		co (S8) <b>(N</b>	NI DA 1/17		Coast Prairie Redox (A16)
					. , .		140) (	
Black Hi			Thin Dark Su			41, 140)	-	(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye ✓ Depleted Mat		۷)		<u> </u>	(MLRA 136, 147)
	• ' '				<b>C</b> \			'ery Shallow Dark Surface (TF12)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(//1/	Redox Dark S Depleted Dar	•	,			Other (Explain in Remarks)
		(A11)						other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDN		
	Mucky Mineral (S1) (L	KK N,	Iron-Mangane		es (F12) (	LKK N,		
	A 147, 148)		MLRA 136	•			3,	
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	faterial (F2	21) <b>(MLR</b>	A 127, 147	) un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								_
Depth (in	ches):						Hydric Soil	Present? Yes No
Remarks:							I.	



Photo 1 Wetland data point WLEB003e\_w facing east



Photo 2
Wetland data point WLEB003e\_w facing south

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/16/2014		
Applicant/Owner: Dominion					Sampling Point: WLEB003_u		
Investigator(s): TP							
Landform (hillslope, terrace, etc.): hill sl							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Monongahela silt I	oam, 3 to 8 per	rcent slopes		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	ne site typical fo	or this time of year? \	′es No	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or I	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil, or I							
SUMMARY OF FINDINGS – A	-						
Hydrophytic Vegetation Present?	Yes	No. 🗸					
Hydric Soil Present?		No	Is the Sampled Area	v	🗸		
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is	required; chec	k all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)		True Aquatic Plants	B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa			
Saturation (A3)			• ,	Moss Trim Li			
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur			
Drift Deposits (B3)		Thin Muck Surface (			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rei	narks)	· <del></del>	tressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aerial Image	ary (R7)			Shallow Aqu	Position (D2)		
Water-Stained Leaves (B9)	пу (Бг)				aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral			
Field Observations:							
	No 🗸	Depth (inches):					
		Depth (inches):					
		Depth (inches):		lydrology Preser	nt? Yes No ✔		
(includes capillary fringe)							
Describe Recorded Data (stream gaug	e, monitoring v	well, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							

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

\_\_)

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

50% of total cover: 15 20% of total cover: 6

50% of total cover: \_\_\_\_2.5 \_\_\_ 20% of total cover: \_\_\_1

30

2. Acer saccharum

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

1 Carpinus caroliniana

Herb Stratum (Plot size: \_ 1. Polystichum acrostichoides

2 Aesculus flava

1. Quercus rubra

mes of p	lants.		Sampling Point: WLEB003_u
	ominant I		Dominance Test worksheet:
% Cover 5 60 10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:25 (A/B)
			Prevalence Index worksheet:
70 -			Total % Cover of: Multiply by:
=	Total Cove	r 14	OBL species $0 \times 1 = 0$
_ 20% of to	tal cover:_		FACW species $\begin{array}{ccc} 0 & x & 2 & 0 \\ & & & \end{array}$
20	Yes	EAC	FAC species 20 x 3 = 60
		FAC	95 340
10	Yes	FACU	FACU species
			UPL species
			Column Totals: (A) (B)
			Prevalence Index = B/A = 3.8
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
30 -			3 - Prevalence Index is ≤3.0 <sup>1</sup>
=	Total Cove	r 6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
_ 20% 01 10	tal cover:_		data in Remarks or on a separate sheet)
5	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
_ 20% of to	tal cover:_	1	Woody vine – All woody vines greater than 3.28 ft in height.
0 = - 20% of to	Total Cove		Hydrophytic Vegetation Present? Yes No

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

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

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

Sampling Point: WLEB003\_u

Profile Desc	ription: (Describe t	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	S1	- 2	_		_		
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remar	ks	
0-14	7.5YR 4/6	100					SCL				
					-			-			
					,						
					-						
											,
¹Type: C=C	oncentration, D=Deple	etion RM-R	educed Matrix MS	S-Masked	I Sand Gr	ains	<sup>2</sup> Location: P	I =Pore I in	ing M-Mat	riy	
Hydric Soil		ouon, rawi–ra	caacca Matrix, Mc	J-IVIASKCU	oana On	airio.			roblematic		oils³:
Histosol			Dark Surface	(97)					(A10) <b>(MLR</b>	-	
	oipedon (A2)		Polyvalue Be	. ,	CD (CR) /M	II R A 147			e Redox (A		
	stic (A3)		Polyvalue Be				170)	MLRA 14)		10)	
	en Sulfide (A4)		Loamy Gleye	, ,	•	47, 140)			oodplain Sc	sile (E10)	
	d Layers (A5)		Depleted Mat		r <i>z)</i>			(MLRA 1		) iis (F 19)	
	ick (A10) <b>(LRR N)</b>		Redox Dark \$		:6\		,	•	w Dark Surf	200 (TE12)	
	d Below Dark Surface	(Δ11)	Depleted Dar					•	ain in Rema	,	1
	ark Surface (A12)	(Д11)	Redox Depre				_ `	Milei (Expid	alli ili iXeilia	iko)	
	lucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangane			IPPN					
	147, 148)	ixix i <b>v</b> ,	MLRA 130		63 (1 12) <b>(</b>	LIXIX IN,					
	Gleyed Matrix (S4)		Umbric Surfa	•	MI DA 12	6 122\	3Inc	licators of h	nydrophytic	vogotation	and
	Redox (S5)		Piedmont Flo						ology must l	-	
	Matrix (S6)		Red Parent M					-	ped or probl		'
	Layer (if observed):		Red Falent N	nateriai (i	ZI) (WILK	A 127, 147	) un	iless distuit	bed of probl	emanc.	
	Layer (II observeu).										
Type:			<u>—</u>								~
	ches):						Hydric Soi	Present?	Yes	No _	<u> </u>
Remarks:											



Photo 1 Upland data point WLEB003\_u facing south



Photo 2
Upland data point WLEB003\_u facing east

Project/Site: SERP	City/County: Lewis		Sampling Date: 6/16/2014
Applicant/Owner: DOMINION			Sampling Point: WLEA006e_w
	Section, Township, Ra		
Landform (hillslope, terrace, etc.): SWALE			
Subregion (LRR or MLRA): N La	t: 39.13080583 Lo	ng: -80.44366681	Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams, 25 to 3			
Are climatic / hydrologic conditions on the site typical			
Are Vegetation, Soil, or Hydrology	•		oresent? Yes No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site r	map showing sampling point	locations, transects	, important features, etc.
Hydric Soil Present? Yes	No Is the Sample No within a Wetla		No
Feature is a linear saturated PEM wetland within a subuffer.	vale located on a sideslope within activ	e pasture. Mapped as a p	olyline with a width of six foot
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	vits (C3)	getated Concave Surface (B8) tterns (B10) nes (B16) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) trand (D3) uphic Relief (D4)
Saturation Present? Yes No		etland Hydrology Preser	t? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspection	s), if available:	
, , , ,	· ·		
Remarks:			

Sampling Po	int·WLEA006e_v	۷
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1,				That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Deminant
3				Total Number of Dominant Species Across All Strata:  4 (B)
A				Openies / toross / tir etrata.
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:  OBL species 45 x 1 = 45
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 species0 x 3 =0
				FACU species5 x 4 =20
2				UPL species
3				102 160
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =1.65
6				1 10 Validitide III adx = B/1 ( =
7		<u></u>		Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 )				· · · · · · · · · · · · · · · · · · ·
1. Carex vulpinoidea	30	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lupulina	15	Yes	OBL	
3. Juncus effusus	15	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Eleocharis intermedia	15	Yes	FACW	be present, unless disturbed or problematic.
5. Persicaria pensylvanica	12	No No	FACW	Definitions of Four Vegetation Strata:
<u> </u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Cinna arundinacea	10	No	FACW	more in diameter at breast height (DBH), regardless of
7. Lolium perenne	5	No	FACU	height.
8				Sanling/Shrub Woody plants, evaluding vines loss
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				
111	102			Herb – All herbaceous (non-woody) plants, regardless
500/ /		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:51	20% of	total cover:_	20.4	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
		-		
4				Hydrophytic
5		-		Vegetation Present? Yes No
		= Total Cove		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Sampling Point: WLEA006e\_w

	cription: (Describe t	o the dep				or confirm	the absence	of indicators.)
Depth	Matrix	%	Redox	K Feature	S1	Loc <sup>2</sup>	T	Demonto
(inches) 0-18	Color (moist) 10YR 5/2	94	Color (moist) 7.5YR 4/6	<u>%</u> 6	Type <sup>1</sup> C	<u>Loc</u> PL	Texture SC	Remarks
0-10	10110 3/2		7.511(4/0					
•					-			-
			-					
								-
-				-				
								-
<sup>1</sup> Type: C=C	concentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		,	, ,					ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel	. ,	ce (S8) (N	ILRA 147		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				0	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, 1-0)	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		(' <del>'</del>		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		<del>-</del> 6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
	ark Surface (A12)	(, (, , ,	Redox Depre				~	Suioi (Explain in remaine)
	Mucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangane			LRR N.		
	A 147, 148)	,	MLRA 136		/ (	,		
	Gleyed Matrix (S4)		Umbric Surfa	-	(MI RA 13	6. 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M					lless disturbed or problematic.
	Layer (if observed):		Red r drene w	iatoriai (i	Z1) (IIILIX	7. 127, 147	, un	ness distance of problematic.
Type: N	ONE							
								Present? Yes No
Depth (in	icnes):						Hydric Soil	Present? Yes No
Remarks:								



Photo 1 Wetland data point WLEB006e\_w facing southeast



Photo 2
Wetland data point WLEB006e\_w facing southwest



Photo 3
Wetland data point WLEA006e\_w facing east



Photo 4
Wetland data point WLEA006e\_w facing west

Project/Site: SERP	City/County: Lew	ris	Sampling Date: 6/16/2014
Applicant/Owner: DOMINION		State: WV	Sampling Point: WLEA006_u
• •	Section, Townsh		
Landform (hillslope, terrace, etc.): SIDESLOPE			
Subregion (LRR or MLRA): N			
Soil Map Unit Name: Gilpin-Upshur silt loams, 2	5 to 35 percent slopes	NWI clas	ssification: None
Are climatic / hydrologic conditions on the site ty			
Are Vegetation, Soil, or Hydrolog			
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach			
		•	, ,
	No. 4	npled Area	
	No within a V	Vetland? Yes	No
Remarks:			
HYDROLOGY			
		Casandanila	diagtors (minimum of two required)
Wetland Hydrology Indicators:	s shook all that apply)		dicators (minimum of two required)
Primary Indicators (minimum of one is required			Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)		Vegetated Concave Surface (B8) Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living	-	m Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)		son Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S		Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted	or Stressed Plants (D1)
Iron Deposits (B5)		Geomor	phic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow	Aquitard (D3)
Water-Stained Leaves (B9)			ographic Relief (D4)
Aquatic Fauna (B13)		FAC-Net	utral Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Pre	esent? Yes No
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspe	ctions), if available:	
Remarks: no hydrology indicators			
The flydrology indicators			

#### VE

00	Absolute	Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B
				That Are OBE, I ACW, OIT AC (A/B
	<del>-</del> -			Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species0 x 1 =0
apling/Shrub Stratum (Plot size: 15 )				FACW species0 x 2 =0
				FAC species $0 \times 3 = 0$
•				FACU species 103 x 4 = 412
<u>.                                      </u>				UPL species 7 x 5 = 35
				Column Totals: 110 (A) 447 (B)
				(A) (B)
				Prevalence Index = $B/A = 4.06$
·				Hydrophytic Vegetation Indicators:
·				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
·				3 - Prevalence Index is ≤3.0¹
	0	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50% of total cover:	20% of	total cover:	0	
lerb Stratum (Plot size:5				data in Remarks or on a separate sheet)
Dactylis glomerata	40	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
_ Festuca rubra	30	Yes	FACU	1
Phleum pratense	20	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Trifolium pratense	8	No	FACU	Definitions of Four Vegetation Strata:
Leucanthemum vulgare	7	No	UPL	Definitions of Four Vegetation Strata.
Trifolium repens	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
				more in diameter at breast height (DBH), regardless of height.
				Height.
·				Sapling/Shrub – Woody plants, excluding vines, less
•				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
0				m) tail.
1	110			Herb - All herbaceous (non-woody) plants, regardless
50% of total cover 5		= Total Cover:		of size, and woody plants less than 3.28 ft tall.
0070 01 10101 00001.	20% 01	total cover:		Woody vine – All woody vines greater than 3.28 ft in
yoody vine ottatum (i lot size)				height.
•				
·	-			
·				Hydrophytic
				Vegetation
	0	= Total Cove	er	Present? Yes No
50% of total cover:0	20% of	total cover:	U	
Remarks: (Include photo numbers here or on a separate	sheet.)			1

Sampling Point: WLEA006\_u

Profile Desc	ription: (Describe to	the depth r	eeded to docum	ent the ind	icator or confirn	n the ab	sence of indicators.)
Depth	Matrix			Features			
(inches) 0-18	Color (moist) 7.5YR 4/6	100	Color (moist)	<u> </u>	Type <sup>1</sup> Loc <sup>2</sup>		ture Remarks CL
			_			,	
							<del></del>
	oncentration, D=Deple	tion, RM=Re	duced Matrix, MS	=Masked Sa	and Grains.	<sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil			D 1 - O (	(07)			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) Dipedon (A2)	=	Dark Surface	, ,	(S8) <b>(MLRA 147</b> ,	1/0)	2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	stic (A3)	=			(36) (WLKA 147, ILRA 147, 148)	, 140)	(MLRA 147, 148)
	en Sulfide (A4)	=	Loamy Gleyed				Piedmont Floodplain Soils (F19)
	d Layers (A5)	_	Depleted Mati				(MLRA 136, 147)
	ıck (A10) (LRR N)	_	Redox Dark S				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11) _	Depleted Dark		7)		Other (Explain in Remarks)
	ark Surface (A12) Iucky Mineral (S1) <b>(LF</b>	PR N	Redox Depres		(F12) <b>(LRR N,</b>		
	147, 148)		MLRA 136		(1 12) <b>(LIXIX IX</b> ,		
	Gleyed Matrix (S4)	_		•	RA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)	_			(F19) <b>(MLRA 1</b> 4	<b>48</b> )	wetland hydrology must be present,
	Matrix (S6)	-	Red Parent M	aterial (F21)	(MLRA 127, 147	7)	unless disturbed or problematic.
	Layer (if observed):						
Type: no			=				.,
	ches):		-			Hydr	ric Soil Present? Yes No
Remarks:							



Photo 1 Upland data point WLEB006\_u facing west



Photo 2 Upland data point WLEB006\_u facing west

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/16/2014				
Applicant/Owner: Dominion					Sampling Point: WLEB004e_w				
Investigator(s): TP			n, Township, Range: No						
Landform (hillslope, terrace, etc.): he	adwaters of pond	Local reli	ef (concave, convex, nor	ne): concave	Slope (%): <sup>5</sup>				
Subregion (LRR or MLRA):									
Soil Map Unit Name: Gilpin-Upshur s	ilt loams, 25 to 35	percent slopes		NWI classific	ation: None				
Are climatic / hydrologic conditions or	the site typical for	r this time of year? Ye	es No	(If no, explain in R	emarks.)				
Are Vegetation, Soil,	or Hydrology	significantly disturb	ped? Are "Normal	Circumstances" p	resent? Yes No				
Are Vegetation, Soil,									
SUMMARY OF FINDINGS -									
Hydrophytic Vegetation Present?									
Hydric Soil Present?	Yes	No	Is the Sampled Area	Vac V	No				
Wetland Hydrology Present?		No	within a Wetland?	res	NO				
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indica	tors (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 (F	314)	Sparsely Veg	getated Concave Surface (B8)				
✓ High Water Table (A2)	!	Hydrogen Sulfide Odd	or (C1)	✓ Drainage Par	tterns (B10)				
Saturation (A3)	<u>~</u>	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)				
Water Marks (B1)		Presence of Reduced	` '		Water Table (C2)				
Sediment Deposits (B2)	!	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Buri	rows (C8)				
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	(	Other (Explain in Rem	narks)	·	tressed Plants (D1)				
Iron Deposits (B5)				Geomorphic	, ,				
Inundation Visible on Aerial Ima	gery (B7)			Shallow Aquitard (D3)					
Water-Stained Leaves (B9) Aquatic Fauna (B13)				Microtopographic Relief (D4)  ✓ FAC-Neutral Test (D5)					
Field Observations:				- PAC-Neutral	Test (D3)				
	No	Denth (inches):							
	<u>✓</u> No		1						
	✓ No		) Wetland b	lydrology Presen	t? Yes ✔ No				
(includes capillary fringe)					it: 165 NO				
Describe Recorded Data (stream ga	uge, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:					
Remarks:									
Remarks.									

#### VEGETATION (Four Strata) - Use scientific names of pla

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

Sapling/Shrub Stratum (Plot size: 15 )

Herb Stratum (Plot size: 5 1. Leersia oryzoides

4. Carex lupulina

2. Juncus effusus 3. Eleocharis intermedia 15

•	Absolute Domina	nt Indicator	Dominance Test worksheet:
)	% Cover Specie	s? Status	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
			Total Number of Dominant Species Across All Strata: 3 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/E
			Prevalence Index worksheet:
	0 = Total C	`over	Total % Cover of: Multiply by:
0% of total cover:	= 10tal cov	•	OBL species30 x 1 =30
15	2070 01 total 001	O1	FACW species35
)			FAC species $0 \times 3 = 0$
			FACU species $0 \times 4 = 0$
			UPL species0 x 5 =0
			Column Totals: 65 (A) 100 (B)
			Prevalence Index = B/A =1.53
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
	0 = Total C	over	3 - Prevalence Index is ≤3.0¹
% of total cover: 0	20% of total cov	er:0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<u>;                                    </u>			data in Remarks or on a separate sheet)
	20 Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	20 Yes	FACW	
	15 Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	10No	OBL	Definitions of Four Vegetation Strata:
			<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
			m) tall.
	65 Total C	<u> </u>	Herb – All herbaceous (non-woody) plants, regardless
0% of total cover: 32.5	= Total C	40	of size, and woody plants less than 3.28 ft tall.
30 )	20 % of total cov	CI	Woody vine – All woody vines greater than 3.28 ft in height.
			Hydrophytic
	0 = Total C	`ovor	Vegetation Present? Yes ✓ No
0% of total cover:	= Total C	•	
7/0 OI IOIAI COVEI.	20 /0 01 10141 000	UI	

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

Woody Vine Stratum (Plot size: 30

Sampling Point: WLEB004e\_w

	Matrix			x Features	<del>.</del> _ 1	. 2		
inches) 0-12	Color (moist) 10YR4/2	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> CL	Remarks
0-12	101 R4/2	95	10114/0					
								-
	naontration D-Dan	lotion DN	L-Paduaad Matrix, MS		Sand Cr		<sup>2</sup> l continue F	DI - Doro Lining M-Motriy
	ndicators:	ielion, Riv	1=Reduced Matrix, MS	s=iviaskeu	Sand Gra	airis.	Location: F	PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup>
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		o (S8) (N	II DA 147		Coast Prairie Redox (A16)
_ Histic Ep _ Black His			Tolyvalde Be		. , .		140) (	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)	F	Piedmont Floodplain Soils (F19)
	Layers (A5)		<u>✓</u> Depleted Mat		_,		<u> </u>	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark S		6)		\	Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		•			Other (Explain in Remarks)
	rk Surface (A12)	` ,	Redox Depre					, ,
_ Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	s (F12) (	_RR N,		
	147, 148)		MLRA 130					
_ Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
_ Sandy R	edox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	<b>3)</b> w	etland hydrology must be present,
_ Stripped	Matrix (S6)		Red Parent M	1aterial (F2	21) <b>(MLR</b>	A 127, 147	) ur	nless disturbed or problematic.
estrictive L	.ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soi	I Present? Yes <u>✓</u> No
omorles:								
emarks:								
етпагкѕ:								
еттагкѕ:								
emarks:								
етпаГКS:								
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emarks:								
emarks:								



Photo 1 Wetland data point WLEB004e\_w facing east



Photo 2
Wetland data point WLEB004e\_w facing south

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/16/2014			
Applicant/Owner: Dominion					Sampling Point: WLEB004_u			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): hill slope								
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Upshur silt loan				NWI classific	cation: None			
Are climatic / hydrologic conditions on the si	te typical for thi	s time of year? Y	/es No	(If no, explain in R	temarks.)			
Are Vegetation, Soil, or Hyd	rologys	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present?	/es N	lo <b>V</b>						
	res N		Is the Sampled Area	.,	🗸			
	/es N		within a Wetland?	Yes	No			
Remarks:			I					
HYDROLOGY								
Wetland Hydrology Indicators:					ators (minimum of two required)			
Primary Indicators (minimum of one is requ	uired; check all	that apply)		Surface Soil				
Surface Water (A1)		e Aquatic Plants (			getated Concave Surface (B8)			
High Water Table (A2)	-	rogen Sulfide Od		Dry-Season Water Table (C2)				
Saturation (A3)			• ,					
Water Marks (B1)		sence of Reduced						
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Bur				
Drift Deposits (B3)		Muck Surface (0			isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Oth	er (Explain in Rer	marks)	· <del></del>	tressed Plants (D1)			
Iron Deposits (B5)	7.7				Position (D2)			
Inundation Visible on Aerial Imagery (I	37)			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Water-Stained Leaves (B9)								
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No V Do	pth (inches):						
		pth (inches): pth (inches):						
		pth (inches): pth (inches):		lydrology Preser	nt? Yes No			
(includes capillary fringe)					it? resNo			
Describe Recorded Data (stream gauge, n	nonitoring well,	aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								

#### ٧

30		Absolute	Dominant I		Dominance Test worksheet:
ree Stratum (Plot size:30	)	% Cover	Species?	Status	Number of Dominant Species
					That Are OBL, FACW, or FAC:0 (A)
					Total Number of Dominant
					Species Across All Strata: 3 (B)
					Percent of Dominant Species
					That Are OBL, FACW, or FAC:0 (A/E
					Browley or Indoorsed about
					Prevalence Index worksheet:
			= Total Cove		Total % Cover of: Multiply by:
50%	of total cover:	0 20% of	total cover:_	0	OBL species
apling/Shrub Stratum (Plot size:	)				FACW species x 2 =
					FAC species $0 \times 3 = 0$
					FACU species135 x 4 =540
					UPL species0 x 5 =0
					Column Totals:135
-					Prevalence Index = B/A =4
					Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
					2 - Dominance Test is >50%
					3 - Prevalence Index is ≤3.0 <sup>1</sup>
		_	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	of total cover:	0 20% of	total cover:_	0	data in Remarks or on a separate sheet)
lerb Stratum (Plot size: 5	)				· , , , , ,
Dactylis glomerata		50	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Trifolium repens		35	Yes	FACU	4
. Festuca rubra		30	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Trifolium pratense		20	No	FACU	Definitions of Four Vegetation Strata:
			<u> </u>		Definitions of Four Vegetation Strata.
·					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
·					more in diameter at breast height (DBH), regardless of
•		<del></del>			height.
·					Sapling/Shrub - Woody plants, excluding vines, less
		<del></del>			than 3 in. DBH and greater than or equal to 3.28 ft (1
0					m) tall.
1					Herb - All herbaceous (non-woody) plants, regardless
	_		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50%		67.5 20% of	total cover:_	27	Woody vine – All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size:	30 )				height.
<u>-</u>					
•					
					Hydrophytic
•			T-1-1-0		Vegetation Present? Yes No
50%	of total agreem		= Total Cove total cover:_	_	
	of total cover:		lotal cover		
Remarks: (Include photo numbers he	ere or on a separat	e sheet.)			

Sampling Point: WLEB004\_u

Depth	Matrix		Redox Features	<del></del>	
nches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	CI Texture	Remarks
0-10	10YR 4/6	100		SL	
	10YR 4/6	100		SL	
10-14	5YR 5/6	100		SCL	
				<del></del>	
				<del></del>	
				<del></del>	
				2	
		pletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils <sup>3</sup> :
•	Indicators:		D 1 0 ( (07)	inu	
Histoso			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2) listic (A3)		<ul><li>Polyvalue Below Surface (S8) (MLRA</li><li>Thin Dark Surface (S9) (MLRA 147, 1</li></ul>		Coast Prairie Redox (A16)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	40)	(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	ed Below Dark Surfa	ce (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depressions (F8)	_	,
Sandy I	Mucky Mineral (S1)	(LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
	A 147, 148)		MLRA 136)		
Sandy (	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12	<b>2)</b> 3	ndicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils (F19) (MLF	RA 148)	wetland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent Material (F21) (MLRA 127	<sup>7</sup> , 147)	unless disturbed or problematic.
Restrictive	Layer (if observed	):			
Type:			_		
Depth (in	nches):		_	Hydric S	oil Present? Yes No 🚩
Remarks:					



Photo 1 Upland data point WLEB004\_u facing east



Photo 2 Upland data point WLEB004\_u facing south

Project/Site: Atlantic Coast Pipeline	City/County: Lewis	Sampling Date: 9/6/2014
Applicant/Owner: Dominion		State: WV Sampling Point: WLEB201e_w
Investigator(s): TP		
Landform (hillslope, terrace, etc.): drainageway		
		-80.443898 Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt loams, 15 to	o 25 percent slopes	NWI classification: None
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "No	rmal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _		
		ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	V No_ la the Semulad Ar	
Hydric Soil Present? Yes	Is the Sampled Ar	
	within a Wetland?	resNo
Remarks: PEM wetland located in a drainage swale in a mai	<u> </u>	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; c		Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	<ul><li>Hydrogen Sulfide Odor (C1)</li><li>Oxidized Rhizospheres on Living Roots (Control of the Control of the</li></ul>	✓ Drainage Patterns (B10)
Saturation (A3)	Presence of Reduced Iron (C4)	C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	
Occument Deposits (B2) 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:		
	Depth (inches):	
	Depth (inches):	
	Depth (inches):1 Wetlan	nd Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if	available:
, , ,		
Remarks:		

Sampling Po	int WLE	B201e_v	W
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Troc Stratum (Plot size: U	Absolute	Dominant In	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:4 (A)
2				Total New hour of Developed
3				Total Number of Dominant Species Across All Strata: 4 (B)
1				Openies / Noross / Nr Circuta.
T				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:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 = 25
Sapling/Shrub Stratum (Plot size:	_			FACW species 20
				FAC species0 x 3 =0
1				FACU species 0 x 4 = 0
2		<del></del>		
3				45 65
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.44
6				Trevalence index = B// (=
				Hydrophytic Vegetation Indicators:
7		<del></del>		✓ 1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover		4 - 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 Leersia oryzoides	15	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Persicaria sagittata	10	Yes	OBL	
3. Eleocharis intermedia	10	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Juncus effusus	10	Yes	FACW	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 height.
				noight.
•				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1
9				
10				m) tall.
•				m) tall.
10		= Total Cover		
10	45 =	= Total Cover	9	m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	45 =			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
10	45 <sub>=</sub> 20% of	total cover:		m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	45 = 20% of	total cover:		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
10	45 <sub>=</sub> 20% of	total cover:		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
10	45 <sub>=</sub> 20% of	total cover:		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
10	45 <sub>=</sub> 20% of	total cover:		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.
10	45 <sub>=</sub> 20% of	total cover:		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
10	45 <u></u> 20% of	total cover:	9	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
10	45 = 20% of = 0 = 0 = 0	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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
10	45 = 20% of = 0 = 20% of	total cover:	9	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

Sampling Point: WLEB201e\_w

	Matrix			<u> Features</u>	<del>-</del> 1	. 2		
inches) 0-12	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> CL	Remarks
0-12	10114/1		10114/0					· -
		. ——						-
		. ——						
"no: C-Cc	naontration D_Dan	lotion DM	L-Paduaad Matrix MS		Sand Cr	ino	<sup>2</sup> l continue F	DI — Doro Lining M—Motriy
	ndicators:	letion, Riv	I=Reduced Matrix, MS	=iviaskeu	Sand Gra	uris.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup>
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		o (S8) (N	I D A 1/17		Coast Prairie Redox (A16)
_ Histic Ep _ Black His			Tolyvalde Be		. , .		140) (	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			-17, 140)	F	Piedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mat		_,		<u> </u>	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark S		6)		\	Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		•			Other (Explain in Remarks)
	rk Surface (A12)	` ,	Redox Depre					, ,
_ Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	s (F12) (	RR N,		
	147, 148)		MLRA 130					
_ Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
_ Sandy R	edox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	<b>B)</b> w	etland hydrology must be present,
_ Stripped	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(MLR</b>	A 127, 147	) ur	nless disturbed or problematic.
estrictive L	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soi	il Present? Yes No
emarks:								



Photo 1 Wetland data point WLEB201e\_w facing east



Photo 2
Wetland data point WLEB201e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis		Sampling Date: 9/6/2014		
Applicant/Owner: Dominion					Sampling Point: WLEB201_u		
Investigator(s): TP							
Landform (hillslope, terrace, etc.): hill slo							
Subregion (LRR or MLRA): N	Lat:	39.12451457	Long: -80.4	, 14391412	Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Upshur silt lo	ams, 15 to 25	percent slopes		NWI classific	ation: None		
Are climatic / hydrologic conditions on the	site typical for	r this time of year? Y	res No (	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or H							
SUMMARY OF FINDINGS – Att							
Hydrophytic Vegetation Present?	sent? Yes No_ 🗸 le the Sampled Area						
Hydric Soil Present?		No 🗸	Is the Sampled Area	Vaa	No		
Wetland Hydrology Present?	Yes		within a Wetland?	res	NO		
Upland sample taken in a maintained lav	vn.						
HYDROLOGY							
Wetland Hydrology Indicators:					tors (minimum of two required)		
Primary Indicators (minimum of one is re	equired; check	all that apply)	_	Surface Soil			
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od					
Saturation (A3)			• ,				
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)  Is (C6) Crayfish Burrows (C8)			
Sediment Deposits (B2) Drift Deposits (B3)		Recent from Reduction Thin Muck Surface (C	n in Tilled Soils (C6)	-	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer			tressed Plants (D1)		
Iron Deposits (B5)		Outor (Explain in Nor	namo)	Geomorphic	, ,		
Inundation Visible on Aerial Imager	y (B7)			Shallow Aqui			
Water-Stained Leaves (B9)	, , ,				phic 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):					
(includes capillary fringe)		Depth (inches):		Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gauge	, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							

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

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

Sapling/Shrub Stratum (Plot size: 0 )

2. Rubus flagellaris

3. Asclepias syriaca 10

Herb Stratum (Plot size:

1. Poa pratensis

) – Use scientific n	<u>-</u>	ndiantar	Sampling Point: WLEB201_u  Dominance Test worksheet:
)	Absolute Dominant I % Cover Species?		
			Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
			Total Number of Dominant Species Across All Strata:  (B)
_			Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B
			Prevalence Index worksheet:
	= Total Cove	r	Total % Cover of: Multiply by:
% of total cover:0	20% of total cover:_	0	OBL species $0 \times 1 = 0$
)			FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 = 400
			UPL species 0 x 5 = 0
			Column Totals:(A)(B
			Prevalence Index = B/A = 4
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 <sup>1</sup>
_	0 = Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
0% of total cover: 0	20% of total cover:_	0	data in Remarks or on a separate sheet)
))			Problematic Hydrophytic Vegetation¹ (Explain)
	80 Yes	FACU	Froblematic Hydrophytic Vegetation (Explain)
	10 No	FACU	Indicators of hydric soil and wetland hydrology must
	10No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree Meady plants and discussions 2 in (7.0 cm)
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub – Woody plants, excluding vines, less
			than 3 in. DBH and greater than or equal to 3.28 ft (1
			m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
	= Total Cove		of size, and woody plants less than 3.28 ft tall.
% of total cover:50	20% of total cover:_	20	Woody vine – All woody vines greater than 3.28 ft in
0)			height.
			Hydrophytic
			Vegetation
_	0 = Total Cove	_	Present? Yes No
)% of total cover:0	20% of total cover:_	0	

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

Woody Vine Stratum (Plot size: 0 )

Sampling Point: WLEB201\_u

Profile Desc	ription: (Describe to	the depth	needed to docum	nent the in	ndicator	or confirm	the absence	of indicate	ors.)		
Depth	Matrix		Redo	x Features	S						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remark	S	
0-12	7.5YR 4/4	100					SCL				
				·							
			_								
								-			
	<del></del>										
	<del></del>							-			
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lini	ing, M=Matr	ix.	
Hydric Soil I	ndicators:						Indica	ators for P	roblematic	Hydric Soil	ls³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	A10) <b>(MLR</b>	147)	
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147,			Redox (A1		
Black Hi	. , ,		Thin Dark Su				, <u> </u>	(MLRA 14		,	
	n Sulfide (A4)		Loamy Gleye				P		oodplain Soi	ls (F19)	
Stratified	Layers (A5)		Depleted Mat	trix (F3)				(MLRA 13	86, 147)		
2 cm Mu	ck (A10) (LRR N)		Redox Dark S	Surface (F	6)		V	ery Shallov	v Dark Surfa	ce (TF12)	
	Below Dark Surface	(A11)	Depleted Dar				c	ther (Expla	in in Remar	ks)	
	ark Surface (A12)		Redox Depre								
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangan		es (F12) <b>(</b> I	_RR N,					
	\ 147, 148)		MLRA 13				2				
	leyed Matrix (S4)		Umbric Surfa						ydrophytic v	-	nd
	edox (S5)		Piedmont Flo					-	logy must b		
	Matrix (S6)		Red Parent N	/laterial (F2	21) <b>(MLR</b> .	A 127, 147	<u>')</u> un	less disturb	ed or proble	ematic.	
Restrictive I	ayer (if observed):										
Type:											_
Depth (ind	ches):		_				Hydric Soil	Present?	Yes	No	_
Remarks:											



Photo 1
Upland data point WLEB201\_u facing southwest



Photo 2
Upland data point WLEB201\_u facing southeast

Project/Site: SERP	City/C	county: Lewis	:	Sampling Date: 6/16/2014		
Applicant/Owner: Dominion				_ Sampling Point: WLEB005e_w		
Investigator(s): TP	Section					
Landform (hillslope, terrace, etc.): drainage						
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Gilpin-Upshur silt loan	ns, 15 to 25 percent slopes		NWI classifica	tion: None		
Are climatic / hydrologic conditions on the si	te typical for this time of year? Y	res No (If	f no, explain in Re	marks.)		
Are Vegetation, Soil, or Hyd	rology significantly distur	bed? Are "Normal (	Circumstances" pr	esent? Yes No		
Are Vegetation, Soil, or Hyd						
SUMMARY OF FINDINGS – Attac						
Hydrophytic Vegetation Present?	Yes <b>✓</b> No					
Hydric Soil Present?	res No	Is the Sampled Area	Vac V	No		
	Yes No	within a Wetland?	res	_ NO		
Remarks: Wet swale/drainageway in pasture.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is requ	uired; check all that apply)	_	Surface Soil C	<u> </u>		
Surface Water (A1)	True Aquatic Plants (			etated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Od		✓ Drainage Patt			
✓ Saturation (A3)	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Lin	es (B16)		
Water Marks (B1)	Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burro	ows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C			ible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Rer	narks) _	<del></del> "	essed Plants (D1)		
Iron Deposits (B5)		-	Geomorphic F			
Inundation Visible on Aerial Imagery (I	B7)	-	Shallow Aquita			
Water-Stained Leaves (B9)		-		phic Relief (D4)		
Aquatic Fauna (B13)			FAC-Neutral 1	est (D5)		
Field Observations:	No. V Donah (inches)					
	No Depth (inches): No Depth (inches):	5				
	No Depth (inches):	2		• v • v		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hy	drology Present	? Yes <u> </u>		
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, pre	vious inspections), if availa	able:			
Demonis						
Remarks:						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size:30)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
		·		Total Number of Dominant
				Species Across All Strata: (B)
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R
		· · ·		That Are OBL, FACW, or FAC: (A/B
		. <del></del>		Prevalence Index worksheet:
-	0			Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cove	er O	OBL species 50 x 1 = 50
15	20% 01	total cover:		FACW species30
apling/Shrub Stratum (Plot size: 13 )				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
·				
<del>-</del>				90 110
•				Column Totals: (A) (B)
·	-			Prevalence Index = B/A =1.37
<u> </u>				Hydrophytic Vegetation Indicators:
				✓ 1 - Rapid Test for Hydrophytic Vegetation
<u>-</u>				2 - Dominance Test is >50%
<u> </u>				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	er	_
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
lerb Stratum (Plot size:5				data in Remarks or on a separate sheet)
Carex vulpinoidea	30	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Carex lupulina	20	Yes	OBL	
Juncus effusus	15	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Eleocharis intermedia	15	No	FACW	be present, unless disturbed or problematic.
	-			Definitions of Four Vegetation Strata:
·				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
· <u> </u>				more in diameter at breast height (DBH), regardless of
:	-			height.
				Sapling/Shrub – Woody plants, excluding vines, less
l				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
0	-	· <del></del>		iii) taii.
1	80			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 40		= Total Cover:		of size, and woody plants less than 3.28 ft tall.
30 /0 of total cover.	20% 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
voody vine Stratum (1 lot size)				height.
J	-			
l				Hydrophytic
				Vegetation
_		= Total Cove	_	Present? Yes No No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	sheet.)			1

Sampling Point: WLEB005e\_w

	cription: (Describe t	o the de				or confirm	the absence	of indicators.)
Depth	Matrix	%	Color (moist)	K Feature		Loc <sup>2</sup>	Touturo	Domorko
(inches) 0-12	Color (moist) 10YR 4/1	95	10 YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	PL	Texture SCL	Remarks
	-						-	-
<sup>1</sup> Type: C=C	concentration, D=Deple	etion. RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	(SR) (N	/I RΔ 147		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su				0, (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		(12)		<u> </u>	
			Redox Dark S		-c)		V	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surface	(111)	Redox Dark s	,	,			(ery Shallow Dark Surface (TF12)
		(A11)						Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDN		
	Mucky Mineral (S1) <b>(L</b>	KK N,	Iron-Mangane		es (F12) (	LKK N,		
	A 147, 148)		MLRA 130	•	/NU DA 46	0 400\	3,	Parton of hadron bards are not offered
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M	laterial (F	·21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	iches):						Hydric Soil	Present? Yes No
Remarks:								



Photo 1
Wetland data point WLEB005e\_w facing west



Photo 2
Wetland data point WLEB005e\_w facing north



Photo 3
Wetland data point WLEB005e\_w facing west



**Photo 4**Wetland data point WLEB005e\_w facing north

Project/Site: SERP	City/	County: Lewis	s	ampling Date: 6/16/2014		
Applicant/Owner: Dominion				Sampling Point: WLEB005_u		
Investigator(s): TP						
Landform (hillslope, terrace, etc.): hillslope				Slope (%): <sup>5</sup>		
Subregion (LRR or MLRA): N				Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Upshur silt loams			NWI classificat	ion: None		
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes No (If	no, explain in Rer	narks.)		
Are Vegetation, Soil, or Hydro	ology significantly distu	urbed? Are "Normal C	ircumstances" pre	sent? Yes No		
Are Vegetation, Soil, or Hydro						
SUMMARY OF FINDINGS – Attach			•			
Hydrophytic Vegetation Present? Yes	es No					
	es No	Is the Sampled Area	Yes	No. V		
Wetland Hydrology Present?	es No	within a Wetland?	res	NO		
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		S	econdary Indicato	rs (minimum of two required)		
Primary Indicators (minimum of one is required)	red: check all that apply)		Surface Soil Cr			
Surface Water (A1)	True Aquatic Plants					
High Water Table (A2)	Hydrogen Sulfide O		<ul> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> </ul>			
Saturation (A3)						
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reducti		Crayfish Burrov			
Drift Deposits (B3)	Thin Muck Surface	(C7)	Saturation Visil	ole on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re	emarks)	_ Stunted or Stre	ssed Plants (D1)		
Iron Deposits (B5)		<del>-</del>	Geomorphic Po			
Inundation Visible on Aerial Imagery (B	7)	_	_ Shallow Aquita			
Water-Stained Leaves (B9)		=	Microtopograph			
Aquatic Fauna (B13)		_	FAC-Neutral Te	est (D5)		
Field Observations:						
	No Depth (inches):					
	No Depth (inches):					
Saturation Present? Yes   (includes capillary fringe)	No Depth (inches):	Wetland Hy	Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if availa	ible:			
Remarks:						

= Total Cover:  Total Cover:  Total Cover:  Total Cover:  Yes  Yes  Yes  Yes	0 FACU	Number of Dominant Species That Are OBL, FACW, or FAC:
= Total Cover:  = Total Cover:  = Total Cover:  Yes  Yes	0 FACU	Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  O  O  O  O  O  O  O  O  O  O  O  O  O
= Total Cover:  = Total Cover:  = Total Cover:  Yes  Yes	0 FACU	Species Across All Strata:3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B  Prevalence Index worksheet:
= Total Cover:  = Total Cover:  = Total Cover:  Yes  Yes	0 FACU	Species Across All Strata:3 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B  Prevalence Index worksheet:
= Total Cover:  f total cover:  = Total Cover  total cover:  Yes  Yes	0	That Are OBL, FACW, or FAC:0 (A/B  Prevalence Index worksheet:
= Total Cover:  f total cover:  = Total Cover  total cover:  Yes  Yes	0	That Are OBL, FACW, or FAC:0 (A/B  Prevalence Index worksheet:
= Total Cover:  Yes Yes	0	Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species $0$
= Total Cover:  Yes Yes	0	Total % Cover of:Multiply by:OBL species0x 1 = 0FACW species0x 2 = 0FAC species0x 3 = 0FACU species80x 4 = 320UPL species0x 5 = 0Column Totals:80(A)320Mydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
= Total Cover:  Yes Yes	0	OBL species $0$ $x 1 = 0$ FACW species $0$ $x 2 = 0$ FAC species $0$ $x 3 = 0$ FACU species $0$ $x 4 = 320$ UPL species $0$ $x 5 = 0$ Column Totals: $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
= Total Cover:  Yes Yes	0	FACW species $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
= Total Cover: Yes Yes	0 FACU	FACW species $\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $
= Total Cover: Yes Yes	0 FACU	FAC species
= Total Cover: Yes Yes	0 FACU	Prevalence Index = B/A = $\frac{4}{100}$ Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is $\leq 3.0^{1}$ 4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)
= Total Cover:  Yes  Yes	0 FACU	Column Totals: x 5 = (A)
= Total Cover:  Yes  Yes	0 FACU	Column Totals:80(A)320(B)  Prevalence Index = B/A =4  Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
= Total Cover:  Yes  Yes	0 FACU	Prevalence Index = B/A =4  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
= Total Cover: f total cover: Yes Yes	0 FACU	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
= Total Cover: f total cover: Yes Yes	0 FACU	1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%     3 - Prevalence Index is ≤3.0¹     4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
f total cover: Yes Yes	0 FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
f total cover: Yes Yes	0 FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
f total cover: Yes Yes	0 FACU	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
f total cover: Yes Yes	0 FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)
Yes Yes	FACU	data in Remarks or on a separate sheet)
Yes		• • • • • • • • • • • • • • • • • • • •
Yes		Problematic Hydrophytic Vegetation (Explain)
- ———		
Yes	FACU	1
	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
No	FACU	Definitions of Four Vegetation Strata:
		Definitions of Four Vegetation Strata.
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
		more in diameter at breast height (DBH), regardless of height.
		neight.
		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.
t total cover:	10	Woody vine – All woody vines greater than 3.28 ft in
		height.
		Hydrophytic
		Vegetation
= Total Cove	er	Present? Yes No
	_	
	f total cover:	= Total Cover f total cover: 16

Sampling Point: WLEB005\_u

Profile Desc	cription: (Describe to	the depth n	eeded to docun	ent the inc	licator or confir	m the al	bsence of indicators.)
Depth	Matrix			r Features			
(inches) 0-12	Color (moist) 10YR 3/4	100	Color (moist)	<u>%</u>	Type <sup>1</sup> Loc <sup>2</sup>		cture Remarks CL
			_				
					· · · · · · · · · · · · · · · · · · ·		
							<del></del> -
			_				
			_				
						· <u></u>	
1Type: C-C	oncentration, D=Deple	ation PM-Per	duced Matrix MS	-Macked S	and Grains	<sup>2</sup> l oca	ution: PL=Pore Lining, M=Matrix.
Hydric Soil		ELIOIT, INIVITATE	duced Matrix, Mc	=iviaskeu S	and Grains.	LUCA	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	_		, ,	(S8) <b>(MLRA 147</b>	', 148)	Coast Prairie Redox (A16)
	istic (A3)	_			MLRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)	_	Loamy Gleye		2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	_	Depleted Mat				(MLRA 136, 147)
	uck (A10) (LRR N)	(011)	Redox Dark S				Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11) _	Depleted Dar Redox Depre		-7)		Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(LF</b>	RR N,			(F12) <b>(LRR N,</b>		
	A 147, 148)		MLRA 136		(· ·=/ <b>(</b> =,		
	Bleyed Matrix (S4)	_	Umbric Surfa	ce (F13) <b>(M</b>	LRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)	_			s (F19) <b>(MLRA 1</b>		wetland hydrology must be present,
	I Matrix (S6)	_	Red Parent M	laterial (F21	) (MLRA 127, 14	7)	unless disturbed or problematic.
	Layer (if observed):						
	ches):		-			Hydi	ric Soil Present? Yes No
Remarks:							



Photo 1
Upland data point WLEB005\_u facing northeast



Photo 2
Upland data point WLEB005\_u facing southeast

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/16/2014
Applicant/Owner: Dominion				State: WV	Sampling Point: WLEB006s_w
Investigator(s): TP					
Landform (hillslope, terrace, etc.): Swale					
Subregion (LRR or MLRA): N					Datum: WGS 1984
Soil Map Unit Name: Gilpin-Upshur silt I	oams, 35 to 70	percent slopes, seve	rely eroded	NWI classific	cation: None
Are climatic / hydrologic conditions on th	e site typical fo	r this time of year? Y	es No	(If no, explain in R	Remarks.)
Are Vegetation, Soil, or I	Hydrology	significantly disturl	bed? Are "Norma	l Circumstances"	oresent? Yes No
Are Vegetation, Soil, or I					
SUMMARY OF FINDINGS – A	-				
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?		No	Is the Sampled Area	V V	No
Wetland Hydrology Present?		No	within a Wetland?	res	NO
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is	required; check	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Ve	getated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odd	or (C1)	✓ Drainage Pa	itterns (B10)
Saturation (A3)	<u>~</u>	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim L	ines (B16)
Water Marks (B1)		Presence of Reduced	` '	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)		stressed Plants (D1)
Iron Deposits (B5)	(DZ)				Position (D2)
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu	
Water-Stained Leaves (B9) Aquatic Fauna (B13)				✓ FAC-Neutral	aphic Relief (D4)
Field Observations:			<u> </u>	TAO Neutra	1 1031 (103)
	No.	Depth (inches):			
			8		
		Depth (inches):	2 Wetland H	Hydrology Presei	nt? Yes 🗸 No
(includes capillary fringe)					190 <u></u>
Describe Recorded Data (stream gaug	e, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					
Nomano.					

EGETATION (Four Strata) – Use scientific n	ames or	piants.		Sampling Point: WLEBUU6S_W
00	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30 ) 1.	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
2				. , ,
3		· ——		Total Number of Dominant Species Across All Strata: 6 (B)
				Species Across Air Strata(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 83.33333333 (A/B)
6		· <del></del>		Prevalence Index worksheet:
7				
	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
<sub>1.</sub> Sambucus nigra	10	Yes	FAC	FAC species x 3 = 30
2. Rosa multiflora	10	Yes	FACU	FACU species 10 x 4 = 40
3. Salix nigra	10	Yes	OBL	UPL species0 x 5 =0
4				Column Totals:
4				(1)
5				Prevalence Index = B/A =1.85
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9.				
	30	= Total Cov	er	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 15		total cover:	c	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5)		10101 001011		data in Remarks or on a separate sheet)
1 Carex lupulina	20	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
•	10	Yes	FACW	
2. Impatiens capensis				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex vulpinoidea	10	Yes	OBL	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7			·	more in diameter at breast height (DBH), regardless of height.
ρ	-	·		noight.
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 herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 20	20% of	total cover:	8	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 )				height.
1				- 9
2				
3		·		
4		·		Hydrophytic
5				Vegetation Present? Yes ✓ No
•		= Total Cov	0	Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Sampling Point: WLEB006s\_w

1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  1 Hydric Soil Indicators:  1 Histosol (A1)  1 Histic Epipedon (A2)  1 Histic Epipedon (A2)  2 cm Muck (A10) (MLRA 147, 148)  1 Hydrogen Sulfide (A4)  1 Loamy Gleyed Matrix (F3)  2 cm Muck (A10) (LRR N)  3 pepleted Dark Surface (F7)  4 Polyvalue Below Dark Surface (F7)  5 Polyvalue Below Dark Surface (F7)  5 Polyvalue Below Dark Surface (F7)  5 Polyvalue Below Dark Surface (F7)  6 Polyvalue Below Surface (F7)  7 Polyvalue Below Surface (F7)  8 Polyvalue Below Surface (F7)  9 Polyvalue Surface (F7)  9 Polyv	Depth	<u>Matrix</u>			<u> Features</u>	31	. 2		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5)  Zem Muck (A10) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (F3)  MLRA 136, 147)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Hydric Soil Present? Yes   N		Color (moist)	<u>%</u>	Color (moist)	<u>%</u> 5	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
Adric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Depth (inches):  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  (MLRA 147, 148)  (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19  (MLRA 136, 147)  Very Shallow Dark Surface (TF  Other (Explain in Remarks)  Pindicators of hydrophytic vegetati  Wetland hydrology must be press  unless disturbed or problematic.  Yes  N	0-12	101K 4/2	95	10114/0					
Histosol (A1)									
Histosol (A1)									
Histosol (A1)						-			
Histosol (A1)									
Histosol (A1)									
Adric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Depth (inches):  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  (MLRA 147, 148)  (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19  (MLRA 136, 147)  Very Shallow Dark Surface (TF  Other (Explain in Remarks)  Pindicators of hydrophytic vegetati  Wetland hydrology must be press  unless disturbed or problematic.  Yes  N									
Adric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Depth (inches):  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  (MLRA 147, 148)  (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19  (MLRA 136, 147)  Very Shallow Dark Surface (TF  Other (Explain in Remarks)  Pindicators of hydrophytic vegetati  Wetland hydrology must be press  unless disturbed or problematic.  Yes  N									-
Adric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Depleted Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 147)  Wery Shallow Dark Surface (TF)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Torn-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 136, 122)  Wetland 136  Jindicators of hydrophytic vegetati wetland hydrology must be pressure strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes   N						-			_
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 146)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Depleted Matrix (S4)  Sandy Redox (S5)  MLRA 136,  Sandy Redox (S5)  Depleted Matrix (S4)  Sandy Redox (S5)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Depth (inches):  Type:  Depth (inches):  Indicators for Problematic Hydric  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  Coast Prairie Redox (A16)  MRRA 147, 148)  (MLRA 147, 148)  MRRA 147, 148)  Piedmont Floodplain (F2)  MLRA 136, 147)  Very Shallow Dark Surface (TF  Other (Explain in Remarks)  Pindicators of hydrophytic vegetati  Wetland hydrology must be press  unless disturbed or problematic.  Problematic Hydric  Action  Action  Dark Surface (S3) (MLRA 147, 148)  MLRA 136, 147, 148)  Findicators of hydrophytic vegetati  Wetland hydrology must be press  unless disturbed or problematic.  Betrictive Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Note of Problematic Hydric  Action  Actio									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 146)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 147)  Depleted Dark Surface (F7)  Tron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 122)  Jindicators of hydrophytic vegetati wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes   North Ra 147, 148  Hydric Soil Present? Yes   North Ra 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Name A 147, 148  Wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Hydric Soil Present? Yes   Name A 147  Name A 147, 148  Loamy Gleyed Matrix (F2)  Loamy G									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 146)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 147)  Depleted Dark Surface (F7)  Tron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 122)  Jindicators of hydrophytic vegetati wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes   North Ra 147, 148  Hydric Soil Present? Yes   North Ra 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Name A 147, 148  Wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Hydric Soil Present? Yes   Name A 147  Name A 147, 148  Loamy Gleyed Matrix (F2)  Loamy G									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 146)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dimpleted Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 147)  Depleted Dark Surface (F7)  Tron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19 (MLRA 136, 122)  Jindicators of hydrophytic vegetati wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes   North Ra 147, 148  Hydric Soil Present? Yes   North Ra 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Name A 147, 148  Wetland hydrology must be pressurative Layer (if observed):  Type:  Depth (inches):  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Name A 147, 148  Hydric Soil Present? Yes   Name A 147, 148  Hydric Soil Present? Yes   Name A 147  Name A 147, 148  Loamy Gleyed Matrix (F2)  Loamy G								2	
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) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19 Stratified Layers (A5) Depleted Matrix (F3) Redox Dark Surface (F6) Very Shallow Dark Surface (TF Depleted Below Dark Surface (A11) Piedmont Floodplain in Remarks)  Redox Dark Surface (F6) Very Shallow Dark Surface (TF Depleted Below Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Surface (F6) Very Shallow Dark Surface (F7) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present of the prese			letion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ains.		
Histic Epipedon (A2)				5	(07)				
Black Histic (A3)						(00) (5		· · · · · · · · · · · · · · · · · · ·	, , ,
						. , .		148) (	
Stratified Layers (A5)							47, 148)	_	
						F2)		F	
						·c)		,	
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present of the problematic.  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Type: Depth (inches): Hydric Soil Present? Yes N			ο (Δ11)			•			
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Type:  Depth (inches): Hydric Soil Present? Yes N			e (ATT)					`	ottler (Explain in Remarks)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  _ Red Parent Material (F21) (MLRA 127, 147)   Type:  _ Depth (inches):  _ Hydric Soil Present? Yes _ N			RR N				I RR N		
Sandy Gleyed Matrix (S4)			-IXIX I <b>4</b> ,			JS (1 12) <b>(</b>	LIXIX IV,		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes N					-	MIRA 13	6 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  lestrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes N									
estrictive Layer (if observed):  Type:  Depth (inches): N									
Type:						, <b>(</b>		, <u> </u>	need distanced or problematic
Depth (inches): N		,							
		hes).						Hydric Soil	I Present? Yes No
emarks:		люэ)						Tiyano con	11103CHC 103 NO
	emarks:								



Photo 1 Wetland data point WLEB006s\_w facing southeast



Photo 2
Wetland data point WLEB006s\_w facing southwest

Project/Site: SERP		City/C	county: Lewis		Sampling Date: 6/16/2014			
Applicant/Owner: Dominion					Sampling Point: WLEB006_u			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): hills								
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Upshur sili	t loams, 35 to 70	percent slopes, seve	rely eroded	NWI classific	ation: None			
Are climatic / hydrologic conditions on	the site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or	r Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes V No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes	No 🗸			<del>-</del>			
Hydric Soil Present?		No	Is the Sampled Area	.,	🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is	s required; checl	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	tterns (B10)			
Saturation (A3)			• , ,	Moss Trim Li	nes (B16)			
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	_	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)			
Drift Deposits (B3)		Thin Muck Surface (0			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	Other (Explain in Rer	narks)	Stunted or St	tressed Plants (D1)			
Iron Deposits (B5)				Geomorphic				
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aqui				
Water-Stained Leaves (B9)					phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):						
		Depth (inches):			,			
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	Wetland F	lydrology Presen	t? Yes No			
Describe Recorded Data (stream gau	ige, monitoring v	well, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								

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

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

1 Rosa multiflora

Herb Stratum (Plot size: 1. Dactylis glomerata

2. Festuca rubra

Sapling/Shrub Stratum (Plot size: 15 )

3. Phleum pratense

) – Use scientific na	Absolute -	Dominant Ir	ndicator	Sampling Point: WLEB006_u  Dominance Test worksheet:
)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
				Total Number of Dominant Species Across All Strata: 4 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
				Prevalence Index worksheet:
	0	Total Cover		Total % Cover of: Multiply by:
0% of total cover:		= Total Cover total cover:	0	OBL species0 x 1 =0
15	2070 01	total cover		FACW species 0 x 2 = 0
/	10	Yes	FACU	FAC species 0 x 3 = 0
				FACU species 90 x 4 = 360
				0 0
				UPL species $0 \times 5 = 0$ Column Totals: $0 \times 5 = 0$ (A) $0 \times 5 = 0$ (B)
				Prevalence Index = B/A =4
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
_		= Total Cover	. 2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
% of total cover: 5	20% of	total cover:		data in Remarks or on a separate sheet)
)	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	30	Yes	FACU	Trobolination typicophytic vegetation (Explain)
	25	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	25	<u>Yes</u>	FACU	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	80			Herb – All herbaceous (non-woody) plants, regardless
% of total cover: 40		= Total Cover total cover:	16	of size, and woody plants less than 3.28 ft tall.
0% of total cover:40_ )	20% 01	lotal cover		Woody vine – All woody vines greater than 3.28 ft in height.
				Hydrophytic
	0 =	Tatal O		Vegetation Present? Yes No
0% of total cover: 0		<ul> <li>Total Cover</li> <li>total cover:</li> </ul>	. 0	

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

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

Sampling Point: WLEB006\_u

Profile Desc	ription: (Describe t	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	S		_		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarl	ks	
0-12	7.5YR 3/4	100					SCL				
							-				
											,
					-			-			
¹Type: C=Co	oncentration, D=Deple	etion RM=Re	educed Matrix MS	S=Masked	Sand Gr	ains	<sup>2</sup> Location: P	I =Pore Lin	ing M=Mat	rix	
Hydric Soil		50011, 1 (IVI—1 (	saacoa marix, me	<u>J-Macked</u>	Cana On	AII 10.			roblematic		oils³:
Histosol			Dark Surface	(\$7)					(A10) <b>(MLR</b>	-	
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) <b>(N</b>	II RA 147			e Redox (A	•	
Black Hi			Tolyvalde Be				,	MLRA 14		. 5,	
	n Sulfide (A4)		Loamy Gleye	, ,	•	, 1-0)	P		oodplain Sc	oils (F19)	
	d Layers (A5)		Depleted Mat		,		<u> </u>	(MLRA 1		)o (1 10)	
	ick (A10) <b>(LRR N)</b>		Redox Dark S		·6)		V	•	w Dark Surf	ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar					•	ain in Rema	. ,	'
	ark Surface (A12)	,	Redox Depre					` '		,	
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane			LRR N,					
	\ 147, 148)		MLRA 130		· , ·						
	Bleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	<sup>3</sup> Ind	licators of h	ydrophytic '	vegetation	and
	ledox (S5)		Piedmont Flo						ology must b	-	
	Matrix (S6)		Red Parent M						ped or probl		
Restrictive I	_ayer (if observed):										
Type:											
	ches):		_				Hydric Soil	Present?	Yes	No	~
Remarks:	,						1 -		·		
rtomanto.											



Photo 1 Upland data point WLEB006\_u facing north



Photo 2 Upland data point WLEB006\_u facing west

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/17/2014			
Applicant/Owner: DOMINION				State: WV	Sampling Point: WLEA007e_w			
Investigator(s): GB, LE			on, Township, Range: No					
Landform (hillslope, terrace, etc.): F								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt lo	am, 8 to 15 percen	t slopes		NWI classific	eation: None			
Are climatic / hydrologic conditions of	on the site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	I Circumstances" p	present? Yes No			
Are Vegetation, Soil								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Yes 🗸	No						
Hydric Soil Present?		No	Is the Sampled Area	v <b>V</b>	No			
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of on	e is required; check	all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (	B14)	Sparsely Ve	getated Concave Surface (B8)			
✓ High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	✓ Drainage Pa	tterns (B10)			
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)			
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)					
Drift Deposits (B3)		Thin Muck Surface (0						
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)		tressed Plants (D1)			
Iron Deposits (B5)	(57)				Position (D2)			
Inundation Visible on Aerial Im	agery (B7)			Shallow Aqu				
Water-Stained Leaves (B9) Aquatic Fauna (B13)				Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)				
Field Observations:				1 AC-Neutral	1631 (00)			
	s No	Denth (inches):						
	s No		4					
	s / No		0 Wetland h	Hydrology Preser	nt? Yes ✔ No			
(includes capillary fringe)					K: 100			
Describe Recorded Data (stream of	jauge, monitoring w	ell, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								
Nomano.								

00	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:30)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
·				Total Number of Dominant Species Across All Strata: 3 (B)
				Percent of Dominant Species
·				That Are OBL, FACW, or FAC:100 (A/B
				Prevalence Index worksheet:
	0	= Total Cove	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	f total cover:	0	OBL species 36 x 1 = 36
Sapling/Shrub Stratum (Plot size: 15 )				FACW species60
·				FAC species $0 \times 3 = 0$
<u></u>				FACU species0 x 4 =0
				UPL species 0 x 5 = 0
i.				Column Totals: 96 (A) 156 (B)
s				Prevalence Index = B/A =1.62
S				Hydrophytic Vegetation Indicators:
<b>.</b>	· <del></del>			✓ 1 - Rapid Test for Hydrophytic Vegetation
3				✓ 2 - Dominance Test is >50%
)				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50% of total cover:0	20% of	f total cover:	0	
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
Juncus effusus	50	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Carex lupulina	18	Yes	OBL	1
3. Carex vulpinoidea	18	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<sub>1.</sub> Bacopa repens	10	No		Definitions of Four Vegetation Strata:
5. Eleocharis intermedia	10	No	FACW	Definitions of Four Vegetation Strata.
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
7.				more in diameter at breast height (DBH), regardless of height.
3.				
)				Sapling/Shrub – Woody plants, excluding vines, less
~ <del></del>				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10	-			
1	106	= Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:53		total cover:		Was deades Allowed by the sector than 0.00 ft is
Noody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
l				noight.
2.				
3.				
1		<del></del>		Hydrophytic
5				Vegetation Present? Yes No
50% of total cover: 0		= Total Cover:	•	Present? Yes No
Remarks: (Include photo numbers here or on a separate s			·	
Remarks. (include prioto numbers here or on a separate s	sneet.)			

Sampling Point: WLEA007e\_w

Depth	Matrix			x Features		. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup> PL/M	Texture SCL	Remarks
0-18	7.5YR 4/2	90	7.5YR 4/6	10	C	PL/M	SCL	
		<del></del>				· ——		
						<u> </u>		
					-			
					-			
						<u> </u>		
						·		
		- ——			-	· ——		
Type: C=C	oncentration, D=Dep	letion, RM	I=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
ydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
_ Histic E <sub>l</sub>	pipedon (A2)		Polyvalue Be		ce (S8) <b>(I</b>	/ILRA 147,	148) (	Coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	rface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		F	Piedmont Floodplain Soils (F19)
_ Stratified	d Layers (A5)		Depleted Mat	trix (F3)				(MLRA 136, 147)
_ 2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)		\	/ery Shallow Dark Surface (TF12)
_ Deplete	d Below Dark Surfac	e (A11)	Depleted Dar	k Surface	(F7)		c	Other (Explain in Remarks)
_ Thick Da	ark Surface (A12)		Redox Depre					
Sandy N	Mucky Mineral (S1) (I	_RR N,	✓ Iron-Mangane	ese Masse	es (F12) (	LRR N,		
MLR	A 147, 148)		MLRA 13	6)				
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	l Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	) un	lless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: NO	ONE							
Depth (in							Hydric Soil	I Present? Yes ✓ No
Remarks:								
omano.								



Photo 1
Wetland data point WLEA007e\_w facing east



Photo 2
Wetland data point WLEA007e\_w facing west

Project/Site: SERP		City/C	county: Lewis		Sampling Date: 6/17/2014			
Applicant/Owner: DOMINION					Sampling Point: WLEA007_u			
Investigator(s): GB, LE			on, Township, Range: No					
Landform (hillslope, terrace, etc.): flat								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt loam, 8	to 15 percent	slopes		NWI classific	ation: None			
Are climatic / hydrologic conditions on the s	site typical for	this time of year? Y	es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hyd	drology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No			
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Atta								
Hydrophytic Vegetation Present?	Yes	No. 🗸						
		No	Is the Sampled Area	Vaa	No			
	Yes		within a Wetland?	res	NO			
Upland data point for a roadside PEM wet	and.							
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is rec	uired; check	all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	1	True Aquatic Plants (	B14)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)	H	Hydrogen Sulfide Od	or (C1)	Drainage Pa	tterns (B10)			
Saturation (A3)			• , ,	Moss Trim Li	ines (B16)			
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_ (	Other (Explain in Rer	narks)	· <del></del>	tressed Plants (D1)			
Iron Deposits (B5)	(DZ)				Position (D2)			
Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	(D7)			Shallow Aqui	aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	. ,			
Field Observations:				17.0 11001101	1031 (20)			
	No.	Depth (inches):						
		Depth (inches):						
		Depth (inches):		lydrology Preser	nt? Yes No ✔			
(includes capillary fringe)					103 <u></u> 110 <u></u>			
Describe Recorded Data (stream gauge,	monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
no hydrology indicators								

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

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_\_ 1. Festuca rubra

2. Trifolium pratense 3. Vernonia gigantea

4. Plantago lanceolata

5. Trifolium repens

6. Juncus tenuis

7. Juncus effusus

) – Use scientific na	Absolute	Dominant Ir	ndicator	Sampling Point: WLEA007_u  Dominance Test worksheet:
)		Species?		Number of Dominant Species
	-			That Are OBL, FACW, or FAC:0 (A)
				Total Number of Dominant
_				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:0 (A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
0		= Total Cover	. 0	OBL species $0 \times 1 = 0$
0% of total cover:0 15	20% of	total cover:		FACW species 5 x 2 = 10
)				FAC species 17 x 3 = 51
				FACU species 57
				UPL species 7 x 5 = 35
				Column Totals: 86 (A) 324 (B)
				Prevalence Index = B/A = 3.76
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover	. 0	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
0% of total cover:0	20% of	total cover:		data in Remarks or on a separate sheet)
5)	30	Vaa	FACIL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
_	20	Yes Yes	FACU FACU	
	12	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	7	No	UPL	be present, unless disturbed or problematic.
	7	No	FACU	Definitions of Four Vegetation Strata:
		No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
	5	No	FACW	more in diameter at breast height (DBH), regardless of
			17.011	height.
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				,
_	86	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
0% of total cover: 43		total cover:		
30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				- 3
				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No
0% of total cover: 0	20% of	total cover:	0	

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

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

Sampling Point: WLEA007\_u

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redo	x Features	31	. 2					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	OTLIED 5	Remarks		
0-18	7.5YR 3/3	50					SCL	OTHER 50	)% is grave	l fill	
-							-				
								-			
								-			
							-				
	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P				_
Hydric Soil	Indicators:						Indic	ators for Pr	oblematic I	Hydric Soil	ls³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	(10) <b>(MLRA</b>	147)	
Histic Ep	oipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie	Redox (A16	3)	
Black Hi	stic (A3)		Thin Dark Su	ırface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)		
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		F	Piedmont Flo	odplain Soil	s (F19)	
Stratified	d Layers (A5)		Depleted Ma					(MLRA 13	6, 147)		
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F	6)		\	ery Shallow	Dark Surfa	ce (TF12)	
Depleted	d Below Dark Surface	(A11)	Depleted Dar				(	Other (Explai	n in Remarl	rs)	
	ark Surface (A12)		Redox Depre								
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b> I	LRR N,					
	A 147, 148)		MLRA 13	•			3				
	Sleyed Matrix (S4)		Umbric Surfa					licators of hy		-	nd
	Redox (S5)		Piedmont Flo					etland hydrol			
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b> .	A 127, 147	<u>un</u>	less disturbe	ed or proble	matic.	
Restrictive	Layer (if observed):										
Type: NO	JINE		_								
Depth (in	ches):		_				Hydric Soi	Present?	Yes	No	<u> </u>
Remarks:											



Photo 1 Upland data point WLEA007\_u facing east



Photo 2
Upland data point WLEA007\_u facing south

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/17/2014			
Applicant/Owner: Dominion					Sampling Point: WLEB008e_w			
Investigator(s): TP			on, Township, Range: No					
Landform (hillslope, terrace, etc.): swale								
Subregion (LRR or MLRA): N	Lat	. 39.09999233	Long: -80.	4138292	Datum: WGS 1984			
Soil Map Unit Name: Vandalia silt loam	, 15 to 25 perc	ent slopes		NWI classific	cation: None			
Are climatic / hydrologic conditions on the	ne site typical f	or this time of year? Y	′es No	(If no, explain in R	Remarks.)			
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	l Circumstances" ¡	oresent? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes 🗸	No						
Hydric Soil Present?	Yes V	No	Is the Sampled Area	Vac V	No			
Wetland Hydrology Present?		No	within a Wetland?	res	NO			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; ched	ck all that apply)		Surface Soil	` '			
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		<u>✓</u> Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L	, ,			
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduced Recent Iron Reduction	, ,	Dry-Season Water Table (C2) Is (C6) Crayfish Burrows (C8)				
Drift Deposits (B3)		Thin Muck Surface (0		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rer		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		. , ,	,		Position (D2)			
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqu	itard (D3)			
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		_ Depth (inches):						
		_ Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No	_ Depth (inches):	Wetland H	Hydrology Preser	nt? Yes V No			
Describe Recorded Data (stream gaug	ge, monitoring	well, aerial photos, pre	vious inspections), if ava	ilable:				
Domosko								
Remarks:								

6 Cover			Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  4 (B)  Percent of Dominant Species
0			That Are OBL, FACW, or FAC:4 (A)  Total Number of Dominant Species Across All Strata:4 (B)  Percent of Dominant Species
0			Total Number of Dominant Species Across All Strata:  4 (B) Percent of Dominant Species
0			Species Across All Strata: 4 (B)  Percent of Dominant Species
0			Percent of Dominant Species
			Percent of Dominant Species
			1 crock of Bollinark Openies
			That Are OBL, FACW, or FAC: 100 (A/I
			· · · · · · · · · · · · · · · · · · ·
0 _			Prevalence Index worksheet:
	Total Cover		Total % Cover of: Multiply by:
	total cover:	0	OBL species25 x 1 =25
20 /0 01 0	otal cover		FACW species60
5	Yes	FAC	FAC species 5 x 3 = 15
5	Yes	OBL	FACU species
			UPL species x 5 =
•		_	Column Totals: 90 (A) 160 (B
			,
		<u></u>	Prevalence Index = B/A =1.77
		<u></u>	Hydrophytic Vegetation Indicators:
			✓ 1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
10 =	- Total Cover		
		2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	_		data in Remarks or on a separate sheet)
45	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20			
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
15	NO	FACW	be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
			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, regardles
80 =	- Total Cover		of size, and woody plants less than 3.28 ft tall.
	_		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
			height.
	<del></del>		
			Hydrophytic
			Vegetation
0 -	- Total Cover		Present? Yes No
		0	
et.)			1
	10 = 20% of 1	10 = Total Cover 20% of total cover:  45	10 = Total Cover 2 20% of total cover: 2 45

Sampling Point: WLEB008e\_w

0-12 10YR 3/2 95 10YR 5/6 5 C PL SICL  SIC	Depth	Matrix			<u> Features</u>	S1	. 2		
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ype: C=Concentration, D=Depletion, RM=Reduced Matrix.  Indicators for Problematic Hydric Soils³.  ype: C=Concentration, D=Depletion, RM=Reduced Matrix.  ype: C=Concentration, D=Depletion, RM=Reduced Soils³.  ype: C=Concentration, D=Depletion, Reduced Soils (F19) (MLRA 147, 148)  ype: C=Concentration, D=Depletion Soils (PLAT, 147)  ype: Carstraine Reduced (S1)  ype: C=Concentration, D=Depletion Soils (PLAT, 147)  ype: Concentration, D=Depletion Soils (PLAT, 148)  ype: Concentra	inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Histosol (A1)	0-12	1018 3/2	95	10113/0			PL	SICL	
Histosol (A1)									
Histosol (A1)									
Histosol (A1)		-							
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)		-	· ——			-			
Histosol (A1)						-			
Histosol (A1)									
Histosol (A1)									
Histosol (A1)		-				-			
Histosol (A1)						-		2	
Histosol (A1)			letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		
Histic Epipedon (A2)	•								
Black Histic (A3)									
						. , .		<b>148)</b> C	
Stratified Layers (A5)							47, 148)	_	
2 cm Muck (A10) (LRR N)						F2)		P	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches):  Depth (inches):  Depleted Dark Surface (F7) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Depth (inches):  Depleted Dark Surface (F7) Depth (inches):  Cother (Explain in Remarks) Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Depleted Dar					` ,	(0)			
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 127, 147)  estrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No			- (044)		•	,			
Sandy Mucky Mineral (S1) (LRR N,			e (A11)			. ,			otner (Explain in Remarks)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  _ Stripped Mat			DD N				I DD NI		
Sandy Gleyed Matrix (S4)			.KK N,			35 (F12) <b>(</b>	LKK N,		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No					•	MI DA 12	6 122)	<sup>3</sup> Ind	licators of hydrophytic vogotation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No									
Depth (inches): Hydric Soil Present? Yes No									
Type:  Depth (inches):					iatoriai (i	_	, , , <u>, , , , , , , , , , , , , , , , </u>	, u	noor dictarboa or problematic.
Depth (inches): No									
		ah a a\.						Unadaia Cail	I Dunnanda Van V
emarks:		cnes):						Hydric Soil	Present? Yes No
	emarks:								



Photo 1 Wetland data point WLEB008s\_w facing north



Photo 2
Wetland data point WLEB008s\_w facing south

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/17/2014			
Applicant/Owner: Dominion					Sampling Point: WLEB008_u			
Investigator(s): TP								
Landform (hillslope, terrace, etc.): hillslope								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt loam, 15	to 25 perce	ent slopes		NWI classific	eation: None			
Are climatic / hydrologic conditions on the	site typical fo	or this time of year? \	/es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hy	drology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No			
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Hydrophytic Vegetation Present?	Yes	No. 🗸						
Hydric Soil Present?		No	Is the Sampled Area within a Wetland?	Vaa	No 🗸			
Wetland Hydrology Present?	Yes			Yes	No			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is re-	quired; check	k all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		(B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	or (C1)	Drainage Patterns (B10)						
Saturation (A3)		• ,	Moss Trim L					
Water Marks (B1)		d Iron (C4)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)		on in Tilled Soils (C6)						
Drift Deposits (B3)		Thin Muck Surface (O Other (Explain in Rei			isible on Aerial Imagery (C9) tressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rei	ilaiks)	· <del></del>	Position (D2)			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu				
Water-Stained Leaves (B9)	(5.)				aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
Surface Water Present? Yes	_ No _ 🗸	Depth (inches):						
		Depth (inches):						
		Depth (inches):		Netland Hydrology Present? Yes No				
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos, pre	evious inspections), if ava	ilable:				
Devente								
Remarks:								

## VE

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
ree Stratum (Plot size: 30	)	% Cover	Species?	Status	Number of Dominant Species	
•					That Are OBL, FACW, or FAC:	(A)
<u>.</u>						
					Total Number of Dominant Species Across All Strata: 4	(B)
						(5)
					Percent of Dominant Species That Are ORL FACW or FAC: 25	
j					That Are OBL, FACW, or FAC:	(A/B)
)					Prevalence Index worksheet:	
,		0			Total % Cover of: Multiply by:	
		:	= Total Cove	_	OBL species 0 x 1 = 0	
	% of total cover: 0	20% of	total cover:		0 0	_
Sapling/Shrub Stratum (Plot size:	)	4.0	.,		FACW species x 2 = 0	_
autumn olive		10	Yes		FAC species X3 = 100	_
					FACU species X4 =	_
<u>.                                    </u>					UPL species x 5 =	_
<u>.                                    </u>					Column Totals:35 (A)130	(B)
					2.74	
					Prevalence Index = B/A =3.71	_
					Hydrophytic Vegetation Indicators:	
					1 - Rapid Test for Hydrophytic Vegetation	
l		. <del></del>			2 - Dominance Test is >50%	
)		0			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
			= Total Cove	er 2	4 - Morphological Adaptations <sup>1</sup> (Provide sup	porting
_	% of total cover:5	20% of	total cover:		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5	)	40			Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	
. Rubus argutus		10	Yes	FACU	replemate rijaroprijite vegetation (Expla	,
Trifolium repens		10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology r	muot
3. Verbesina alternifolia		10	Yes	FAC	be present, unless disturbed or problematic.	iiuSt
<sub>I.</sub> Asclepias syriaca		5	No	FACU	Definitions of Four Vegetation Strata:	
5					Johnmond of Four Vogotation Gratar	
)					Tree – Woody plants, excluding vines, 3 in. (7.6	
,					more in diameter at breast height (DBH), regardl height.	less of
·					noight.	
) )					Sapling/Shrub – Woody plants, excluding vines	
·-					than 3 in. DBH and greater than or equal to 3.28 m) tall.	3 ft (1
0			-		m) tan.	
1					Herb - All herbaceous (non-woody) plants, rega	rdless
			= Total Cove		of size, and woody plants less than 3.28 ft tall.	
	% of total cover: 17.5	20% of	total cover:		Woody vine – All woody vines greater than 3.28	3 ft in
Voody Vine Stratum (Plot size:	)				height.	
3. <u> </u>						
l						
5					Hydrophytic Vegetation	
<u> </u>		_	= Total Cove		Present? Yes No	
	% of total cover:		total cover:	_		
509	70 OI IOIAI COVEI.	20 /0 01	iolai cover.			
50° Remarks: (Include photo numbers)	here or on a separate s	sheet.)				
	here or on a separate s	sheet.)				

Sampling Point: WLEB008\_u

Profile Desc	ription: (Describe to	the depth i	needed to docume	ent the indica	tor or confirm	the abs	sence of indicators.)
Depth	Matrix		Redox	Features			
(inches)	Color (moist)		Color (moist)	% Typ	e <sup>1</sup> Loc <sup>2</sup>	Text	
0-12	7.5YR 4/4	100				SC	CL
					<del></del> -		
					, <u></u>		
					<del></del> -		
1Typo: C-C	oncentration, D=Deple	tion PM-Pc	ducad Matrix MS-	Macked Sand	L Grains	<sup>2</sup> L ocati	ion: PL=Pore Lining, M=Matrix.
Hydric Soil		elion, rivi=re	duced Matrix, MS=	iviaskeu Sario	Giallis.		Indicators for Problematic Hydric Soils <sup>3</sup> :
-			Dorle Curtons (	C7\			2 cm Muck (A10) (MLRA 147)
Histosol		-	Dark Surface ( Polyvalue Beld		) (MI DA 447	4.40\	
	oipedon (A2)	•		•	, .	140)	Coast Prairie Redox (A16)
	stic (A3) en Sulfide (A4)	•	Thin Dark Surf Loamy Gleyed		KA 147, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	, ,	-					(MLRA 136, 147)
	d Layers (A5) ick (A10) <b>(LRR N)</b>	•	Depleted Matri Redox Dark St				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dark				Other (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depres				Other (Explain in Remarks)
	lucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Manganes		2) (LRR N.		
	A 147, 148)	,	MLRA 136)		_/ <b>(_</b> ,		
	Gleyed Matrix (S4)		Umbric Surface		A 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)	•	Piedmont Floo			8)	wetland hydrology must be present,
	Matrix (S6)	•	Red Parent Ma				unless disturbed or problematic.
	Layer (if observed):			,,,	•	Í	·
Type:							
	ches):		_			Hydri	ic Soil Present? Yes No
Remarks:						,	100 <u>100 100 100 100 100 100 100 100 100</u>
Nemarks.							



Photo 1 Upland data point WLEB008\_u facing northeast



Photo 2
Upland data point WLEB008\_u facing southeast

Project/Site: SERP	City/C	ounty: Lewis		Sampling Date: 6/17/2014	
Applicant/Owner: Dominion			State: WV	_ Sampling Point: WLEB007e_w	
Investigator(s): TP					
Landform (hillslope, terrace, etc.): floodplain					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Sensabaugh silt loam			NWI classifica	ntion: None	
Are climatic / hydrologic conditions on the site	e typical for this time of year? Y	es No (l	If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydro	ology significantly distur	bed? Are "Normal	Circumstances" pr	esent? Yes No	
Are Vegetation, Soil, or Hydro					
SUMMARY OF FINDINGS – Attacl					
Hydrophytic Vegetation Present? You	es <u> </u>				
Hydric Soil Present?	es No	Is the Sampled Area	Vac V	No	
	es No	within a Wetland?	res	NO	
Remarks:				-	
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil 0	Cracks (B6)	
Surface Water (A1)	True Aquatic Plants (	B14)	Sparsely Veg	etated Concave Surface (B8)	
✓ High Water Table (A2)	✓ Hydrogen Sulfide Odd	or (C1)	✓ Drainage Patt		
Saturation (A3)	es on Living Roots (C3)	Moss Trim Lir	nes (B16)		
Water Marks (B1)	Presence of Reduced	I Iron (C4)	Dry-Season V	Vater Table (C2)	
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burro		
Drift Deposits (B3)	Thin Muck Surface (C			ible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)	<del></del>	essed Plants (D1)	
Iron Deposits (B5)			Geomorphic F		
Inundation Visible on Aerial Imagery (B	37)		Shallow Aquit	equitard (D3) ographic Relief (D4)	
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>			✓ FAC-Neutral		
Field Observations:			1 AC-Neutlai		
	No Depth (inches):				
	No Depth (inches):	1			
		0 Wetland H	ydrology Present	? Yes 🗸 No	
(includes capillary fringe)				. 103	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	vious inspections), if avail	lable:		
Remarks:					
remand.					

EGETATION (Four Strat			plants.		Sampling Point: WLEB007e_w
Tree Charters (Diet sine)		Absolute	Dominant Ir		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:1.	)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2					Total Number of Dominant
3					Species Across All Strata: 4 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100 (A/B)
6					
7					Prevalence Index worksheet:
			= Total Cover	_	
	50% of total cover: 0	20% of	total cover:	0	OBL species X I =
Sapling/Shrub Stratum (Plot siz	e:)				FACW species x 2 =
1					FAC species x 3 =
2					FACU species X 4 =
3					UPL species x 5 =
4					Column Totals: (A) (B)
5					Prevalence Index = B/A =1.6
6					Hydrophytic Vegetation Indicators:
7					1 - Rapid Test for Hydrophytic Vegetation
8					2 - Dominance Test is >50%
9					✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		0 .	= Total Cover		<del></del>
	50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size:	5)				data in Remarks or on a separate sheet)
1. Eleocharis intermedia		35	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Scirpus cyperinus		25	Yes	FACW	
3. Carex lupulina		20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex vulpinoidea		20	Yes	OBL	Definitions of Four Vegetation Strata:
5					John Marie Crit our Vogetation Chata.
6					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7					more in diameter at breast height (DBH), regardless of height.
8					
9.	_			_	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10					m) tall.
11					Herb – All herbaceous (non-woody) plants, regardless
		100	= Total Cover		of size, and woody plants less than 3.28 ft tall.
	50% of total cover: 50	20% of	total cover:	20	Weady vine All woody vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:	)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1					- 9
2					
3					
4					Hydronbytio
5					Hydrophytic Vegetation
	_	0 :	= Total Cover		Present? Yes No
	50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo number	ers here or on a separate sh	neet.)			
(		,			

Sampling Point: WLEB007e\_w

Indicator   Texture   Remarks   Type:   Loc   Texture   Remarks	Depth	Matrix			K Features	S1	. 2	<b>.</b>	5
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Matrix (F3)  Thick Dark Surface (A11)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147)  MLRA 147, 148)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA N, MLRA 148)  MLRA 147, 148)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA N, MLRA 136, 122)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Hydric Soil Present? Yes V No									Remarks
Histosol (A1)	0-12	101R 3/2	95	101R 4/6	5		PL	CL	
Histosol (A1)									
Histosol (A1)									
Histosol (A1)			. ——						
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N,  MLRA 147, 148)  MLRA 136, 122)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes No									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Tron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)  Piedmont Floodplain Soils (F19) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes Vo									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Depth (inches):  Hydric Soil Present? Yes Volume Indicators for Problematic Hydric Soils <sup>3</sup> :  1 dem Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  (MLRA 147, 148)  (MLRA 147, 148)  (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  All Remarks  All R									
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes V No		-							
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Depth (inches):  Type:  Depth (inches):  Hydric Soil Present? Yes V No									
Mydric Soil Indicators:									
Mydric Soil Indicators:									
Mydric Soil Indicators:		-				-			
ydric Soil Indicators:  Histosol (A1)  Dark Surface (S7)  Histic Epipedon (A2)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Depleted Matrix (F3)  MLRA 136, 147)  MLRA 136, 147)  MLRA 136)  Sandy Redox (S5)  Stripped Matrix (S6)  Piedmont Floodplain Soils (F19)  Medox Dark Surface (F7)  Redox Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes V No									
Histosol (A1)			letion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Bartified Layers (A5) Depth (inches):  Depth (inches): Depth (inches):  Polyvalue Below Surface (S8) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Other (Explain in Remarks)  Piedmont Floodplain Soils (F12) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes  No  No  Hydric Soil Present? Yes  No  No  Piedmont Ploodplain Soils (Present? Yes  No  No  No  No  No  No  No  No  No  N	ydric Soil	Indicators:						Indic	ators for Problematic Hydric Soils <sup>3</sup> :
	_ Histosol	I (A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
	_ Histic E	pipedon (A2)		Polyvalue Bel	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) (	Coast Prairie Redox (A16)
Stratified Layers (A5)	_ Black H	istic (A3)					147, 148)		(MLRA 147, 148)
2 cm Muck (A10) (LRR N)						F2)		F	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6)  Depth (inches):  Depth (inches):  Depth (Surface (A11) Depleted Dark Surface (F7) Depth (inches):  Dept					` '				
Thick Dark Surface (A12)						,			
Sandy Mucky Mineral (S1) (LRR N,			e (A11)			. ,			Other (Explain in Remarks)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  Estrictive Layer (if observed):  Type:  Depth (inches):  MLRA 136)  _ Umbric Surface (F13) (MLRA 136, 122)  Jesting Matrix (S4)  _ Umbric Surface (F13) (MLRA 148)  _ Surface (F13) (MLRA 148)  _ Wetland hydrology must be present,  unless disturbed or problematic.  Hydric Soil Present? Yes No									
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators 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.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No			.RR N,			es (F12) <b>(</b>	LRR N,		
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.    Stripped Matrix (S6)					-			3.	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.    Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.    Type:   Depth (inches):   Hydric Soil Present? Yes No									
Pestrictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No									
Type:  Depth (inches):				Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	) un	nless disturbed or problematic.
Depth (inches): Hydric Soil Present? Yes No	Restrictive	Layer (if observed):							
	Type:								
emarks:	Depth (in	ches):						Hydric Soi	l Present? Yes No
	emarks:								



Photo 1
Wetland data point WLEB007e\_w facing south



Photo 2
Wetland data point WLEB007e\_w facing west

Project/Site: SERP		City/C	county: Lewis		Sampling Date: 6/17/2014		
Applicant/Owner: Dominion					Sampling Point: WLEB007_u		
Investigator(s): TP							
Landform (hillslope, terrace, etc.): floodpla							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Sensabaugh silt loan	m			NWI classific	cation: None		
Are climatic / hydrologic conditions on the		r this time of year? Y	′es No	(If no, explain in R	lemarks.)		
Are Vegetation, Soil, or Hy							
Are Vegetation, Soil, or Hy							
SUMMARY OF FINDINGS – Atta							
					<u>, , , , , , , , , , , , , , , , , , , </u>		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No V	Is the Sampled Area				
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No		
Remarks:	100						
HYDROLOGY							
Wetland Hydrology Indicators:					ators (minimum of two required)		
Primary Indicators (minimum of one is re				Surface Soil			
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)  Roots (C3) Moss Trim Lines (B16)			
Saturation (A3)			• , ,				
<pre> Water Marks (B1) Sediment Deposits (B2)</pre>		Presence of Reduced Recent Iron Reduction		Dry-Season Water Table (C2) Soils (C6)			
Orift Deposits (B2)		Thin Muck Surface (0		Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer		Saturation visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		( )	,	· <del></del>	Position (D2)		
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu			
Water-Stained Leaves (B9)					aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
		Depth (inches):					
		Depth (inches):					
Saturation Present? Yes (includes capillary fringe)	nt? Yes No						
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							

#### VEGETATION (Four Strata) - Use scient

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ree Stratum (Plot size:30)	% Cover	Species?		Number of Dominant Species	(A)
				Total Number of Dominant Species Across All Strata:	(B)
				Percent of Dominant Species	(D)
				· · · · · · · · · · · · · · · · · · ·	(A/B
				Prevalence Index worksheet:	
	0	= Total Cove		Total % Cover of: Multiply by:	
50% of total cover: 0		total cover:	_	OBL species0 x 1 =0	
apling/Shrub Stratum (Plot size: 15 )				FACW species10	
, apring/office office of the				FAC species0 x 3 =0	
				FACU species 93 x 4 = 372	
				UPL species0 x 5 =0	
				Column Totals: 103 (A) 392	(B)
				( ,	. (-)
				Prevalence Index = B/A =3.8	
		-		Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
	0	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 0  erb Stratum (Plot size: 5  Dactylis glomerata	33	total cover:_ Yes	FACU	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
Festuca rubra	30	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology magnetic states and settlements of hydric soil and wetland hydrology magnetic states are settlements.	uet
Trifolium repens	15	No	FACU	be present, unless disturbed or problematic.	uot
Trifolium pratense	15	No	FACU	Definitions of Four Vegetation Strata:	
Sisyrinchium angustifolium		No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cmore in diameter at breast height (DBH), regardles	
·				height.	
		-	-	Sapling/Shrub – Woody plants, excluding vines, I	
				than 3 in. DBH and greater than or equal to 3.28 f m) tall.	t (1
0				inj tali.	
1	103			Herb – All herbaceous (non-woody) plants, regard	dless
51.4		= Total Cove		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 51.9	20% of	total cover:	20.0	Woody vine – All woody vines greater than 3.28 f	t in
(1 lot size.				height.	
				Hydrophytic	
				Vegetation	
	0 .	= Total Cove	or	Present? Yes No	
		total cover:	٠ı		

Sampling Point: WLEB007\_u

Profile Desc	ription: (Describe to	the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_				
(inches)	Color (moist) 10YR 3/4	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL		Remarl	ks	
0-12	101R 3/4	100					SCL				
				-							
					-						
	<del></del>										
					-						
	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P				
Hydric Soil	Indicators:						Indic	ators for P	roblematic	Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (	(A10) <b>(MLR</b>	A 147)	
Histic E <sub>l</sub>	oipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	ILRA 147,	148) 0	Coast Prairi	e Redox (A	16)	
	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 1	47, 148)		
	en Sulfide (A4)		Loamy Gleye		F2)		F	Piedmont Fl	oodplain Sc	oils (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 1			
	ıck (A10) <b>(LRR N)</b>		Redox Dark S					•	w Dark Surf	. ,	)
	d Below Dark Surface	(A11)	Depleted Dar				c	Other (Expla	ain in Rema	rks)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,					
	A 147, 148)		MLRA 13	•		0 400\	3,				
	Gleyed Matrix (S4)		Umbric Surfa						nydrophytic	-	
	Redox (S5)		Piedmont Flo					-	ology must b		,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturb	ped or probl	ematic.	
	Layer (if observed):										
Type:			_								
Depth (in	ches):		<u> </u>				Hydric Soil	Present?	Yes	No _	
Remarks:							•				



Photo 1
Upland data point WLEB007\_u facing northwest



Photo 2
Upland data point WLEB007\_u facing northeast

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis County		Sampling Date: 11/18/2015		
Applicant/Owner: Dominion				State: WV	Sampling Point: wlea088e_w		
			on, Township, Range: No				
Landform (hillslope, terrace, etc.): draw					Slope (%): 9		
Subregion (LRR or MLRA): N					Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Upshur silt	loams, 35 to 70	percent slopes, seve	rely eroded	NWI classifi	cation: None		
Are climatic / hydrologic conditions on the	ne site typical for	this time of year? Y	es No	(If no, explain in I	Remarks.)		
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Norma	l Circumstances"	present? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A			•	, ,	,		
Hydrophytic Vegetation Present?	Yes 🗸	No					
Hydric Soil Present?		No	Is the Sampled Area	Vac V	No		
Wetland Hydrology Present?	Yes 🗸		within a Wetland?	res	NO		
Remarks:							
LIVEROL COV							
HYDROLOGY							
Wetland Hydrology Indicators:		11.4			ators (minimum of two required)		
Primary Indicators (minimum of one is	-		D44)	Surface Soi			
Surface Water (A1)		True Aquatic Plants (			egetated Concave Surface (B8)		
High Water Table (A2) ✓ Saturation (A3)		Hydrogen Sulfide Od	es on Living Roots (C3)	✓ Drainage Pa			
Water Marks (B1)		Presence of Reduced	-	Moss Trim I	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu			
Occurrent Deposits (B2) Drift Deposits (B3)		Thin Muck Surface (C			/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer			Stressed Plants (D1)		
Iron Deposits (B5)		( <u>-</u>	,		Position (D2)		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqu			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra	ll Test (D5)		
Field Observations:							
Surface Water Present? Yes	No	Depth (inches):					
Water Table Present? Yes	No <u> </u>	Depth (inches):					
Saturation Present? Yes	<b>✓</b> No	Depth (inches):	0 Wetland H	Hydrology Prese	nt? Yes <u>'</u> No		
(includes capillary fringe)  Describe Recorded Data (stream gauge	ne. monitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:			
2 000.100 1.0001.000 2 ata (ottoaili) gaag	,o,og	o, aoa. p, p	,,,,,,,,,,				
Remarks:							

Sampling Point: wlea088e_	W
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 4 (A)
2				( )
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:80 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species30 x 1 =30
4F	2070 01	total cover		FACW species 15 x 2 = 30
Sapling/Shrub Stratum (Plot size: 15 )				FAC species 15 x 3 = 45
1				20 400
2				FACU species x 4 = 0 x 4 = 0
3				UPL species $0 \times 5 = 0$
4				Column Totals: (A) (B)
5				2.5
				Prevalence Index = B/A =2.5
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				, , , ,
1. Schedonorus arundinaceus	20	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Eleocharis palustris	15	Yes	OBL	
3. Setaria pumila	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Δ Carex lurida	15	Yes	OBL	be present, unless disturbed or problematic.
5. Juncus effusus	15	Yes	FACW	Definitions of Four Vegetation Strata:
6. Andropogon virginicus	10	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			1700	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
	90	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover:_		, and a second control of the second control
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 Cove	r	Present? Yes No
50% of total cover:0		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea088e\_w

SOIL

2-9   7.5YR 3/2   100   SL	Depth	Matrix		Redo	x Features	_ 1	. 2	_	
Pype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Pype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Provided Soil Indicators:  Indicators for Problematic Hydric Soils*  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Polyvalue Below Surface (S9) (MLRA 147, 148)  Indicators for Problematic Hydric Soils*  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148)  Sandy Redox (S5)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Type: Tock  Depth (inches): 9  Hydric Soil Present? Yes No	inches)	Color (moist)	<u>%</u>	Color (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Idric Soil Indicators:**  Indicators for Problematic Hydric Soils**.  **Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.*  **Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.*  **Indicators for Problematic Hydric Soil Present?** Pyes**  **Indicators for Problematic Hydric Soils**  **Ind	0-2	7.51R 3/2	100					SL	
Histosol (A1)	2-9	7.5YR 4/2	95	7.5YR 4/6	5	C	PL/M	SCL	rock at 9"
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)		_							
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
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 Depressions (F8) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Indicators of hydrophytic vegetation and Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148)			oletion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Histic Epipedon (A2)									
Black Histic (A3)						- (CO) (N	U D A 447		
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) MLRA 136, 147)  Perpleted Matrix (F3) MLRA 136, 147)  Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 9  Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Netron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  MLRA 136, 122)  MLRA 136, 122)  Mucky Mineral (S1) (MLRA 136, 122)  Mucky Mineral (S1) MLRA 136, 122)  Mucky Mineral (S1) MLRA 136, 122)  Mucky Mineral (S2)  Mucky Mineral (S2)  Mucky Mineral (S1) MLRA 136, 122)  Mucky Mineral (S2)  Mucky						. , .		148) (	
Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Strictive Layer (if observed):  Type:  Depth (inches): 9  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F6)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Tyery Shallow Dark Surface (TF12)  Letter (F7)  Other (Explain in Remarks)  MLRA 136, 122)  Strictive Layer (if observed):  Type:  Hydric Soil Present?  Yes  No  Hydric Soil Present?  Yes  No							47, 140)	_	
2 cm Muck (A10) (LRR N)						2)		'	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches):   Depth (inches):   Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, Depleted Dark Surface (F12) (L						3)		1	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)			e (A11)		•	•			
			, o (, )			. ,			Surer (Explain in Normanie)
MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 9  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148) Metland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No			LRR N.				LRR N.		
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)  Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, with the present of the problematic of the present of the prese			,			• (· · <b>-</b> / <b>(</b>	,		
					•	MLRA 13	6. 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Partictive Layer (if observed):  Type: rock  Depth (inches): 9									
Pestrictive Layer (if observed):  Type: rock  Depth (inches): 9  Hydric Soil Present? Yes No									
Type: rock           Depth (inches): 9         Hydric Soil Present? Yes V         No			:			, <b>.</b>		<u></u>	·
emarks:	Depth (in	ches): 9						Hydric Soi	l Present? Yes No
	emarks:							•	



Photo 1 Wetland data point WLEA088e\_w facing east



Photo 2
Wetland data point WLEA088e\_w facing south

Project/Site: Atlantic Coast Pipeline	City/County: Lewis County	Sampling Date: 11/18/2015				
Applicant/Owner: Dominion	State: WV Sampling Point: wlea088_					
Investigator(s): GB, DQ Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): none Slope (9 Subregion (LRR or MLRA): N Lat: 39.10157717 Long: -80.40988304 Datum: W						
Soil Map Unit Name: Gilpin-Upshur silt loams, 35 to	70 percent slopes, severely eroded	NWI classification: None				
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes No (	If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology _						
Are Vegetation, Soil, or Hydrology _						
SUMMARY OF FINDINGS – Attach site						
		<u> </u>				
	— No ✓ Is the Sampled Area within a Wetland?	.,				
Wetland Hydrology Present? Yes	No within a Wetland?	Yes No				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; ch		Surface Soil Cracks (B6)				
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)				
<u> </u>	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
	0.111 1.011 1. 1.1. 0. (00)	Moss Trim Lines (B16)				
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)					
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Test (D5)				
Field Observations:						
	Depth (inches):					
	Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland H	ydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspections), if avai	lable:				
Remarks:						
no hydrology indicators present						

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

\_\_\_\_)

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

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

% Cover Species? Status

= Total Cover \_ 20% of total cover:\_\_

0\_\_\_ = Total Cover 20% of total cover:\_\_\_0

10

50% of total cover: 47.5 20% of total cover: 19

50% of total cover: 0 20% of total cover:

10

8

Yes

No

No

95 = Total Cover

0 = Total Cover

Hydrophytic Vegetation

Present?

30

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_ 1. Schedonorus arundinaceus

2. Andropogon virginicus

3. Setaria pumila

4. Trifolium repens

5. Ranunculus acris

6. Cichorium intybus

Sapling/Shrub Stratum (Plot size: 15

	Sampling F	oint:	wlea088_u					
dicator	Dominance Test worksheet:							
Status_	Number of Dominant Species That Are OBL, FACW, or FAC		0	(A)				
	Total Number of Dominant Species Across All Strata:		2	(B)				
	Percent of Dominant Species That Are OBL, FACW, or FAC		0	(A/B)				
	Prevalence Index workshee	t:						
	Total % Cover of:	M	ultiply by:					
0	OBL species0	x 1 =	0	_				
	FACW species 0	x 2 =	0					
	FAC species 18	x 3 =	54	<del>_</del>				
	FACU species 77	x 4 =	308	_				
	UPL species 0	x 5 =	0	_				
	Column Totals: 95	(A)	362	(B)				
	Prevalence Index = B/A	\ =	3.81	_				
	Hydrophytic Vegetation Ind	icators	:					
	1 - Rapid Test for Hydrop	hytic V	egetation					
	2 - Dominance Test is >5	0%						
	3 - Prevalence Index is ≤	3.0 <sup>1</sup>						
0	4 - Morphological Adapta	tions <sup>1</sup> (	Provide sup	porting				
	data in Remarks or on	a sepa	rate sheet)					
FACU	Problematic Hydrophytic	Vegeta	tion <sup>1</sup> (Expla	in)				
FACU FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
FAC	Definitions of Four Vegetati	on Stra	ıta:					
FACU	<b>Tree</b> – 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.							
10	Herb – All herbaceous (non-wof size, and woody plants less			rdless				
19	Woody vine – All woody vine height.	s great	er than 3.28	3 ft in				

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

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

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

Sampling Point: wlea088\_u

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the abse	nce of indicate	ors.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remarks	
0-5	7.5YR 3/3	100					SL			
5-10	7.5YR 4/4	100					SL			
10-18	7.5YR 4/6	100					SCL			
		· —— -					-			
		· —— -								
										_
		· —— -								
		· <del></del> -								
		·								
¹Type: C=C	oncentration, D=Dep	letion RM-R	Reduced Matrix MS	S-Masked	Sand Gr	ains	<sup>2</sup> l ocation	: PL=Pore Lini	ing M-Matrix	
Hydric Soil		iction, rawi–r	Codoco Matrix, Mc	J-Maskea	Oana On	airio.			roblematic Hyd	ric Soils³:
Histosol			Dark Surface	(S7)					A10) <b>(MLRA 14</b> 7	
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147.	148)		e Redox (A16)	′
Black Hi			Thin Dark Su					_ (MLRA 14	, ,	
	n Sulfide (A4)		Loamy Gleye			, -,	=		oodplain Soils (F	19)
	Layers (A5)		Depleted Ma		•			(MLRA 13		,
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F	6)			_ Very Shallov	v Dark Surface (*	ΓF12)
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,				
	147, 148)		MLRA 13				:	3		
	lleyed Matrix (S4)		Umbric Surfa						ydrophytic veget	
	edox (S5)		Piedmont Flo					-	ology must be pre	
	Matrix (S6)  _ayer (if observed):		Red Parent N	nateriai (F.	21) (WLR	A 127, 147	<u>')</u>	uniess disturb	ed or problemati	C.
Type: no										
							l		v	
Depth (inc	ches):		<u> </u>				Hydric	Soil Present?	Yes	No
Remarks:										



Photo 1
Upland data point WLEA088\_u facing southwest



Photo 2
Upland data point WLEA088\_u facing northwest

Project/Site: Atlantic Coast Pipeline City/County: Lewis Sampling Date: 5/12/2015								
Applicant/Owner: DOMINION		State: WV	Sampling Point: wlec001e_w					
Investigator(s): Team C Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.): Drainage	systemm Local reli	ief (concave, convex, non	e): none	Slope (%): <sup>2</sup>				
	Subregion (LRR or MLRA): N Lat: 39.08491678 Long: -6							
Soil Map Unit Name: Vandalia silt loam, 15 to	o 25 percent slopes		NWI classification	ation: PUBHh				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No								
Are Vegetation, Soil, or Hydro								
SUMMARY OF FINDINGS – Attac								
Hydrophytic Vegetation Present? Y	res ✔ No							
	res No	Is the Sampled Area within a Wetland?	Voc. V	No				
	es	within a wetiand:	165	NO				
Wetland found within the drainage system or	f a stock pond							
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil (	Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (	B14)	Sparsely Veg	etated Concave Surface (B8)				
High Water Table (A2)	✓ Hydrogen Sulfide Ode	or (C1)	Drainage Pat	terns (B10)				
Saturation (A3)	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)				
Water Marks (B1)	Presence of Reduced	` '	Dry-Season \	Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burr	ows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C			sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)		ressed Plants (D1)				
Iron Deposits (B5)			Geomorphic					
Inundation Visible on Aerial Imagery (B	37)		Shallow Aqui					
Water-Stained Leaves (B9)			<del></del>	phic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)				
Field Observations:	No. V Donale (inches)							
	No Depth (inches):							
	No Depth (inches):	8		.a. v. v. v.				
Saturation Present? Yes (includes capillary fringe)	Wetland H	ydrology Presen	t? Yes <u> </u>					
Describe Recorded Data (stream gauge, me	onitoring well, aerial photos, pre	vious inspections), if avai	lable:					
Remarks: Wetland hydrology indicators present								
Wettand Hydrology indicators present								

	20	Absolute	Dominant Ir		Dominance Test worksheet:
Total Number of Dominant Species Across All Stratts:	Tree Stratum (Plot size: 30 )	% Cover	Species?	<u>Status</u>	
Species Arross All Stratus:	1				That Are OBL, FACW, or FAC:1 (A)
Species Across All Strate:	2				Total Number of Dominant
Percent of Lormant's Species   100   (A/B)	3				1
That Are OBL, FACW, or FAC:   100   (A/B)	4				5
Frevalence Index worksheet:   Total % Cover of:   Multiply Dy.	5				
Total Scover   Solve of total cover   Solv					(70B)
Total Scover of the stream o					Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )   20% of total cover: 0   50% of total cover: 0   50% of total cover: 15 )   FACW species		0	= Total Cover		Total % Cover of: Multiply by:
FACW species   10	50% of total cover:			_	OBL species
FAC species 0 x 3 = 30 FACU species 0 x 5 = 0 FACU species 0 x 5 = 0 Column Totals: 110 (A) 215 (B) Frevalence Index = B/A = 1.95  Hydrophytic Vegetation Indicators:  1 - 1 - Rapid Test for hydrophytic Vegetation  50% of total cover: 0 20% of total cover: 0  1 - Juncus effusus 80 Yes FACW 2 - Dominance Test is >50% 2 - Provilence Index is 3.0 '  4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  7 - Language Facus 10 x 3 = 30 FACU species 0 x 5 = 0 Column Totals: 110 (A) 215 (B) Frevalence Index = B/A = 1.95  Hydrophytic Vegetation Indicators:  1 - Rapid Test for hydrophytic Vegetation  2 - 2 - Dominance Test is >50% 2 - 3 - Prevalence Index is 3.0 '  4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  3 - Viola sororia 10 No FACW 5 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  1 - Problematic Hydrophytic Vegetation' (Explain)  1 - Problematic Through the Vegetation' (Explain)  1 - Problematic Hydrophytic Vegetation' (Explain)  2 - Problematic Hydrophytic Vegetation' (Explain)  1 - Problematic Hydrophytic Vegetation' (Explain)  2 - Problematic Hydrophytic Vegetation' (Explain)  3 - Probl	15				FACW species85
2	,				FAC species $10 \times 3 = 30$
Column Totals:   110					
Column Totals:   110   (A)   215   (B)					
Prevalence Index = B/A = 1.95					110 215
Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation					Column Totals (A) (B)
6.	5				Prevalence Index = B/A = 1.95
8.	6				
8.	7				
9.	8	-			1 · · · · · · · · · · · · · · · · ·
Solid total cover:   0   20% of total cove	9				
Solve of total cover:   Solv		0	= Total Cover		
Stratum (Plot size: 3   3   5   5   No   OBL   3   Viola sororia   10   No   FAC   4   Lamium amplexicaule   5   No   FAC   10   Mo   FAC	50% of total cover:0				
Juncus effusus   80    Yes    FACW    FACW    FACW    Tolk    FACW    Tolk    FACW	Herb Stratum (Plot size: 5 )				· · · · · · · · · · · · · · · · · · ·
3. Viola sororia 4. Lamium amplexicaule 5. Impatiens capensis 5. No FACW 6	,	80	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Viola sororia 4. Lamium amplexicaule 5. Impatiens capensis 5. No FACW 6	2 Eleocharis obtusa	15	No	OBL	
4. Lamium amplexicaule 5. No Impatiens capensis 6. Solution of Factory 6. Solution of Four Vegetation Strata: 7. Solution of Four Vegetation of Four Vegetation of Four Vegetation Present? 9. Solution of Four Vegetation Strata: 1. Solution of Four Veget		10	No	FAC	
5.   Impatiens capensis   5 No FACW   6.   7.   8.   9.   10.   115   = Total Cover   7.   50% of total cover:   57.5   20% of total cover:   23      Woody Vine Stratum (Plot size:   30   )   1.   2.   3.   4.   5.   50% of total cover:   0   0   = Total Cover   20% of total cover:   0   20% of total cover:   0      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					
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 Stratum (Plot size: 30 )	··			EACW/	Definitions of Four Vegetation Strata:
7	·		INU	FACVV	Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
8	6				
9	7				height.
9	8				Sanling/Shrub - Woody plants, excluding vines, less
11	9				
115   = Total Cover   23	10				m) tall.
115	11	-			Herb – All herbaceous (non-woody) plants, regardless
Solid total cover: 57.5   20% of total cover: 23     Woody Vine Stratum (Plot size: 30   )		115	= Total Cover		
No ody Vine Stratum (Plot size: 30 )   height.   height.	50% of total cover:57.5				Was developed Allowed by San Specific (San Specific Speci
1	Woody Vine Stratum (Plot size: 30 )				
2					noight.
3					
4					
5					
50% of total cover: 0 20% of total cover: 0	5				Vegetation
20/0 0/10/2010 00/01/	0				Present? resNo
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cover:	20% of	total cover:		
Tromanier (morado priore namboro noto di di di doparato di otto	Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlec001e\_w

Profile Des	cription: (Describe t	o the dept	h needed to docur	nent the ir	dicator	or confirm	the abse	nce of indicators.)
Depth	Matrix			x Features				
(inches) 0-16	Color (moist) 10 YR 4/2	<u>%</u> 98	Color (moist) 10 YR 4/2	2	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	Texture SCL	e Remarks
	-							<del></del>
							-	
								<del>_</del>
	oncentration, D=Deple	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil				(O=)				dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	. ,	- (CO) <b>/N</b>	U DA 447		_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2) istic (A3)		Polyvalue Be Thin Dark Su				148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			47, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		_,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)			_ Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		s (F12) (	LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 13 Umbric Surfa	•	MIRA 13	6 122)	:	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric \$	Soil Present? Yes No
Remarks:							1	
Hydric soil in	dicators present							



Photo 1
Wetland data point wlec001e\_w facing east



Photo 2
Wetland data point wlec001e\_w facing north

Project/Site: Atlantic Coast Pipeline City/County: Lewis Sampling Date: 5/12/2015						
Applicant/Owner: DOMINION		:				
	Sect					
Landform (hillslope, terrace, etc.): Slight slop				Slope (%): 2		
Subregion (LRR or MLRA): N	Lat: 39.0849499	Long: -80.409	94003	Datum: WGS 1984		
Soil Map Unit Name: Vandalia silt loam, 15 to	o 25 percent slopes		NWI classificati	on: None		
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes No (If	no, explain in Rem	narks.)		
Are Vegetation, Soil, or Hydro	ology significantly distu	urbed? Are "Normal C	rcumstances" pre	sent? Yes 🗸 No		
Are Vegetation, Soil, or Hydro						
SUMMARY OF FINDINGS – Attacl			•			
Hydrophytic Vegetation Present? You	es No					
	es No	Is the Sampled Area	v	🗸		
	es No	within a Wetland?	Yes	No		
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		S	econdary Indicator	rs (minimum of two required)		
Primary Indicators (minimum of one is requi	ired: check all that apply)		_ Surface Soil Cr			
Surface Water (A1)	True Aquatic Plants					
High Water Table (A2)	Hydrogen Sulfide O		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
Saturation (A3)		res on Living Roots (C3)	· · · ·			
Water Marks (B1)	Presence of Reduce		_ Dry-Season Wa			
Sediment Deposits (B2)	Recent Iron Reducti					
Drift Deposits (B3)	Thin Muck Surface (	(C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Re	emarks)	_ Stunted or Stre	ssed Plants (D1)		
Iron Deposits (B5)		_	_ Geomorphic Po			
Inundation Visible on Aerial Imagery (B	7)	_	_ Shallow Aquitar			
Water-Stained Leaves (B9)		_	_ Microtopograph			
Aquatic Fauna (B13)		_	_ FAC-Neutral Te	est (D5)		
Field Observations:	N <b>V</b> 5 4 7 1 3					
	No Depth (inches):					
	No Depth (inches):		l l D 10	V N- V		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	wetland Hyd	Irology Present?	Yes No		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if availa	ble:			
Domonlos						
Remarks:  No wetland hydrology indicators present						
The wettand riyarology indicators present						

Sambling Point mooon -	Sampling	Point: wlec001_	u
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00	Absolute	Dominant In	ndicator	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 North and Chambers
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				Operics / toross / till otrata.
				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:
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
1				FACU species 50 x 4 = 200
2				0 0
3				80 260
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.25
6				Trevalence index = B/T(=
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover		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)
1 Elymus riparius	30	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Trifolium pratense	30	Yes	FACU	
3. Rosa multiflora	20	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Rosa mullinora			FACU	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				noight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	80	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40		total cover:	16	
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
· (1 lot size.				height.
1				
2				
3				
4				Hadaan bada
5.				Hydrophytic Vegetation
<u> </u>	0 :	Tatal Cause		Present? Yes No
50% of total cover: 0		= Total Cover	0	
30 % of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlec001\_u

Profile Des	cription: (Describe t	to the depth	needed to document the indicator or confirm	the abser	nce of indicators.)
Depth	Matrix		Redox Features	_	
(inches) 0-16	Color (moist) 7.5 4/4	60	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u> CL	e Remarks
	10 YR 4/3	40		CL	
	Concentration, D=Depl Indicators:	etion, RM=F	Reduced Matrix, MS=Masked Sand Grains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface (S7)		_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 147,		Coast Prairie Redox (A16)
			Follyvalue Below Surface (So) (MLRA 147, 147, Thin Dark Surface (S9) (MLRA 147, 148)	140)	
	listic (A3)				(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)	(0.4.4)	Redox Dark Surface (F6)	_	_ Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	e (A11)	Depleted Dark Surface (F7)	_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
	Mucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)		MLRA 136)		2
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy I	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 14	8)	wetland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent Material (F21) (MLRA 127, 147	<b>'</b> )	unless disturbed or problematic.
Restrictive	Layer (if observed):				
Type:					
Depth (in	nches):		<u> </u>	Hydric \$	Soil Present? Yes No
Remarks:				•	
No hydric soi	I present				



Photo 1 Upland data point wlec001\_u facing north



Photo 2 Upland data point wlec001\_u facing west

Project/Site:
Applicantification Sampling Date:
Investigator(a) State: W Sampling Point: Letter
Investigator(s): Section, Township, Range:
Landform (hillstope, terrace, etc.): depression wind tracarrelief (concave, convex, none): Long Slope (%): O
Lat: 393 1.48 Long: 80° 24' 7.90" Danim 1 X5
Son Wap only Name: Gi Pon
No (If no, explain in Remarks.)
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, e
Hydrophytic Vegetation Present? Ves V No
Hydric Soil Present?  Yes No Is the Sampled Area within a Wetland?  Yes No No Is the Sampled Area within a Wetland?
Wetland Hydrology Present? Yes No No
Remarks:
small depressional area next to small intermittant stream
Heavily impacted by cattle
Little Compacted By CATTLE
HYDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (minimum of two required
Surface Water (A1)
Lindh Water Table (A2)
Oxidized Rhizospheres on Living Poots (C2)
Presence of Reduced Iron (C4)
Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
Argai Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
Injundation Visible on Agricul Imagery (P7)
Water-Stained Leaves (Ro)
Aguatic Fauna (P12)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No. 2 Donth (inches)
(includes capillary fringe) Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Hydrology present
J. J. Land

VEGETATION (Five Strata) - Use scientific names of plants.

ampling Point W

Tree Charles (D)	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
	AN EXCENSIONAL SECTION OF SECTION AND SECTION OF SECTION ASSESSMENT OF SECTION ASSESSMEN	That Are OBL, FACW, or FAC: (A)
2 Sall		Total Number of Dominant
3.	ATTRIBUTED PROPERTY ASSESSMENT AS	Species Across All Strata:
	ES CONTROLLES CHECKERS CHECKERS CHECKERS CONTROLLES CHECKERS CONTROLLES CHECKERS CHE	Dayward of Day 2
5.	-	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
D.	CI WINTERS DESCRIPTION PROTECTION	
	- Total Cover	Prevalence Index worksheet:
50% of total cover:	20% of total cover:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)	THE COLUMN THE PROPERTY SECOND	UBL species X1 =
1,	The second report repor	FACW species x 2 =
	A LINEAR PROPERTY AND	rac species x 3 =
	A RECORDERATE CONTRACTOR DE LA CONTRACTO	racu species x 4 =
	www.commission.com	UPL species x 5 =
5,		Column Totals: (A) (B)
6		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 14)		2 - Dominance Test is >50%
1. Elacagnis untollata	5 W NI	3 - Prevalence Index is ≤3,01
2	The second secon	4 - Morphological Adaptations (Provide supporting
3,		data in Remarks or on a separate sheet)
AS .	Maria Caracteria Control Contr	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.		1.
6. COMMETTAL CHARGO CONTRACTOR CO	WHITE STREET WALLE STREET	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover	Definitions of Five Vegetation Strata:
50% of total cover: 2.4	5 20% of total cover:	V-7/4
Herb-Stratum (Plot size: 10 )	/	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Polygonum saggitatum 2. Polygonum kadnipiperordes	15 V DBL	(7.6 cm) or larger in diameter at breast height (DBH),
2. Dhigomen Recorpiperordes	15 V 0BZ	Sapling – Woody plants, excluding woody vines,
3. Leersus Promica 4. Tupcus e fineis	10 / FACW	approximately 20 ft (6 m) or more in height and less
1. Juneus, & fuseis		than 3 in. (7.6 cm) DBH.
5. Ehnichton colona	25 V FACW	Shrub – Woody plants, excluding woody vines,
6. Capparus strigosus	10 FACW	approximately 3 to 20 ft (1 to 6 m) in height.
7. Elecharis parrula	10 OBL	Herb - All herbaceous (non-woody) plants, including
0.		herbaceous vines, regardless of size, and woody
3.0	BANKERIERANIA POLICIANA EMINARIERANIA CARROLINA CARROLIN	plants, except woody vines, less than approximately 3 ft (1 m) in height.
10	And the second s	Mondaysing
11	1,257	Woody vine – All woody vines, regardless of height.
*	LOD = Total Cover	
	20% of total cover: 20	
Woody Vine Stratum (Plot size:)		
	PROPERTY AND PROPERTY OF THE P	
3 0000	Accordance in the contract of	
4	described and the second sections of the second section of the section of the second section of the sect	
5		
* APPLICATION OF THE PROPERTY	POTENTIAL AND THE STATE OF THE	Hydrophytic \ \ \ \ \
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No No
Remarks: (Include photo numbers here or on a separate si	heet.)	

	-		

WEHOUSE W

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix (inches) Cofor (moist) %	Redox Features	
The state of the s	Color (moist) % Type¹ Loc²	Texture Remarks
0-5 104R3/2	104R4/6 75 C M, PC	LOAM
5-16+104R3/2	104R4/6 72 Cm	CLAYLORM
	And the second s	
	200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
The following of the State of t	Photographic State of the Control of	Transfer of the second
As designated absorptional as place an association attended of testing attended to an association of the control of the contro	THE SAME THE PROPERTY OF THE P	Transcendent of the second of
48004		
	A STATE OF THE STA	AT A CARLES OF THE STATE OF THE
<sup>1</sup> Type: C=Concentration D-Depletion DM	Reduced Matrix, MS=Masked Sand Grains.	7.
Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histosol (A1)	Dark Curtons (C7)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Black Histic (A3)	Polyvalue Below Surface (S8) (MLRA 147, Thin Dark Surface (S9) (MLRA 147, 148)	
☐ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	(MLRA 147, 148)
Stratified Layers (A5)	Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (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)	denound - 1 to (an positive in the internal)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)	MLRA 136)	
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA 14	
Restrictive Layer (if observed):	Red Parent Material (F21) (MLRA 127, 147	) unless disturbed or problematic.
Type:		
Depth (inches).	MANAGEMENT OF THE PROPERTY OF	
Remarks:	Proposition	Hydric Soil Present? Yes No No
itemarks.	,	
	11 0	· ()
	Hydorc Se	Bresen
	Q	
		** .
		,
		97
		et .
		İ

### wleh003e\_w



Wetland data point wleh003e\_w facing east



Wetland data point wleh003e\_w facing south

Project/Site: City/County: EW15 Sampling Date: 9-30-14
State: 6/1/ Sampling Round 1/6/1/
Section, Township, Range:
Landform (hillslope, terrace, etc.): Willslope Local relief (concave, convex, none): Lower Slope (%): 6 1
Shoreyon (LRR of MLRA). [ Lat: 39.5 8.05 Long: 80.24 7.65" Dayum 1.975
Soli Map Unit Name: NAM classification: NAM classification: NAM classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Veg
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.
The state of the s
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
West No within a Wetland? Yes No
Domostio.
Not all three parameters present
all the parameters present
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Surface Soil Cracke (DC)
True Aquatic Plants (B14)
Hydrogen Sulfide Odor (C1)
Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (R16)
water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)
Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Algal Mat or Crust (PA)
Iron Denosits (B5)
Injurdation Visible on Acriel Improve (DZ)
Water-Stained Leaves (PD)
Aquatic Fauna (R13)
Field Observations:
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes Depth (inches):
Schwelier Description
(includes capillary fringe) Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No hydrology present
Medro logy present

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

WEHOD3\_ Sampling Point:

	Absolute Do	ominant Indi	licator I	Daminara Takan dalah
Tree Stratum (Plot size:)	% Cover Si	pecies? St	Status	Dominance Test worksheet:
1.	Total Committee on the Committee of the	described and a succession of the succession of		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
1 7				That Are OBL, FACW, or FAC: (A)
3. 1716			1	Total Number of Dominant
				Species Across All Strata: (B)
The second secon	E VESTENDERSEN PRODUCTION STATES	WHILE STATE OF VENEZA	THE COLUMN ASSESSMENT	D
5	-			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				That Are OBL, FACW, or FAC: (A/B)
	- Ti		-	Prevalence Index worksheet:
500/ -5/-/-			- 1	Total % Cover of: Multiply by:
50% of total cover:	20% of tota	al cover:	THE PERSONNEL PROPERTY.	
Sapling Stratum (Plot size:)				OBL species x 1 =
3717			1	FACW species x 2 =
2. 17/08			1	FAC species x 3 =
			-	FACU species x 4 =
	. Promote substitute promote substitute and substitute		PERSONAL PROPERTY.	UPL species x 5 =
5				Column Totals: (A) (B)
	Personal Administration of the Personal Property of the Personal Proper	WATER THE PERSON NAMED IN	NI LAVERAN WATCHING	material control (7)
6	MORNING MORNING PER WINDS	many-referenterestrements securitaries		Prevalence Index = B/A =
	= Tc	ulai Cover	-	Hydrophytic Vegetation Indicators:
50% of Otal cover:	200/ of total	al agrees		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 1)	20% 01 1018	ar cover:		
Elocaques um la Cata	K 1	1	1. 17	2 - Dominance Test is >50%
servery americana	2	<u> </u>	MT	3 - Prevalence Index is ≤3.01
L				4 - Morphological Adaptations (Provide supporting
3	A	Construction of the Constr		data in Remarks or on a separate sheet)
A				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.	to the same of the	CONCERN LINES		
	OF THE STREET,	TOTAL PROPERTY OF THE PARTY OF	-	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
THE THE PROPERTY OF THE PROPER	<b>F</b> -	and the same of the same of	- Indiana	be present, unless disturbed or problematic.
P7	/	otal Cover		Definitions of Five Vegetation Strata:
50% of total cover: 2.5	20% of tota	al cover:		
Herb Stratum (Plot size: 10 )				Tree – Woody plants, excluding woody vines,
1. Vestuca arundinaria	(00)	VEK	ACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Ambrisia Artenisidolica	15		mil	
3. Plantugo rugosa				Sapling - Woody plants, excluding woody vines,
a Demonia dia la	5			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
COMPANIES COMPANIES	10	X		man a m. (7.0 cm) DBn.
5. Andropogon Orranicus	10	PX	ALU	Shrub – Woody plants, excluding woody vines,
D.				approximately 3 to 20 ft (1 to 6 m) in height.
T.				Herb – All herbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, and woody
	Printed States	AND PERSONAL PROPERTY PROPERTY AND PERSONAL PROPERTY PROPERTY AND PERSONAL PROPERTY PROPERTY AND PERSONAL PROPERTY PROP		plants, except woody vines, less than approximately 3
10	The Committee of the Co	THE PROPERTY CANADA		ft (1 m) in height.
11	-			Woody vine – All woody vines, regardless of height.
	1100			Trocal Title Till Woody Villes, regardless of neight.
	UD- To		0	
50% of total cover: _57	20% of total	I cover: 20	0	
Woody Vine Stratum (Plot size:)				
1,				
2	Hermito-specialization and desired		-	
3.	ACCOUNT OF THE PARTY OF THE PAR	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN		
	-			
7.	-			
3.	CONTRACTOR OF STREET	ACTION AND ADDRESS OF THE PARTY		/
/	= To	tal Cover		Hydrophytic Vegetation
50% of total cover:				Present? Yes No
Remarks: (Include photo numbers here or on a separate si		cover:		description and a language of the second sec
From Manager Field of Off a Separate St	icet.)			

WCEHOO3 - U Sampling Point: \_\_\_\_

Depth Matrix	pth needed to document the indicator or confirm	n the absence of indicators.)
Depth   Matrix   (inches)   Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	Texture Remarks
0-3 104R4/4	The state of the s	Texture Remarks  LOAM
3-8 LOYR 5/4		
8-16 10425/6	A WATERLAND CONTRACTOR AND CONTRACTO	LOWN
10 110		CLAY LOAM
With the state of	**************************************	
	A STATE OF THE PROPERTY OF THE	
ALT AND	S SECTION OF THE PROPERTY OF T	The second secon
RESIDENCE CONTROL CONT	PRODUCTION PROPERTY AND A PROPERTY OF THE PROP	A STATE OF THE STA
A RESIDENCE AND A SECOND PROPERTY OF THE PROPE	Designation of the second of t	SEA COMMISSION OF THE PROPERTY
Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators:	A=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histosol (A1)	Dark Surface (S7)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	2 cm Muck (A10) (MLRA 147)  148) Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
2 cm Muck (A10) (LRR N)	Depleted Matrix (F3) Redox Dark Surface (F6)	(MLRA 136, 147)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>
Thick Dark Surface (A12)	Redox Depressions (F8)	Julie (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	3luctiontage of landaudati
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	<ul> <li>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>
Stripped Matrix (S6)  Restrictive Layer (if observed):	Red Parent Material (F21) (MLRA 127, 147	unless disturbed or problematic.
75		
Depth (inches).	AND TELEVISION AND THE PROPERTY OF THE PROPERT	Hydric Soil Present? Yes No
Remarks;		
	100 has	hydre soil
	present	
		1
		a .

### wleh003\_u



Upland data point wleh003\_u facing north



Upland data point wleh003\_u facing west

### wleh003 soils



Wetland/upland soils

Project/Site: ACP		City/County: LEC	(, )(<	9-30-14
Applicant/Owner: Dom //	VION	only/County.		_ Sampling Date:
Investigator(s): DOW	2 American	Section, Township, Ra		J Sampling Point WEHOZ
	depressioner of lookple	bection, rownship, Ra	inge:	
Subregion (LRR or MLRA).	P Lat. 39°5' 5', 4	arreller (concave, conv	vex, none): Lonc	0.4
Soil Map Unit Name: Gi		13 Lon	ng: 80'24' 4.9	
			NWI classifi	
Are Vegetation Soil	s on the site typical for this time of year	/	(If no, explain in I	The state of the s
Are Vegetation Soil	or Hydrology significantly o		"Normal Circumstances"	
, ac vegetation, 3011	, or Hydrology naturally prob	olematic? (If ne	eeded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS	S – Attach site map showing	sampling point k	ocations, transect	S. important features, etc.
Hydrophytic Vegetation Present			***************************************	
Hydric Soil Present?		Is the Sampled		
Wetland Hydrology Present?	Yes No No	within a Wetlan	nd? Yes	No L
Remarks:	100			
4	5 mall depression 5 mall intermitteent	a wethin	nd with	floodplain)
and the same of th	mall intermittant	ereek	Henvila ma	sucted by
	Livestock	·	3	
HYDROLOGY				
Wetland Hydrology Indicators			Canandamilati	
	one is required; check all (hat apply)		Parameters.	ators (minimum of two required)
Surface Water (A1)	True Aquatic Pla	nte (P14)	PRINCIPAL	Cracks (B6)
High Water Table (A2)	Hydrogen Sulfide			getated Concave Surface (B8)
Saturation (A3)		pheres on Living Roots	s (C3) Moss Trim L	interns (B10)
Water Marks (B1)	Presence of Red		2-mmm	Water Table (C2)
Sediment Deposits (B2)		uction in Tilled Soils (C	C6) Crayfish Bur	
Drift Deposits (B3)	Thin Muck Surface		Comment	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in	Remarks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)				Position (D2)
Inundation Visible on Aerial	lmagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutra	Test (D5)
Field Observations:	functional functions and the second function of the second function			The second section of the section of the second section of the section of the second section of the secti
126	es No Depth (inches):			
	'es No Depth (inches):	716"		£
Saturation Present? Y (includes capillary fringe)	'es No Depth (inches):	8" Wet	tland Hydrology Preser	nt? Yes No
	gauge, monitoring well, aerial photos,			
	y voin donar protos,	previous inspections)	, ii avallable:	
Remarks:		ned to the speciment and defendence on the property of a Specified below and per sufferior whomey		
	Hydrolog	y preso	21	
	1	\ \		
	0	$\sim$		

VEGETATION (Five Strata) - Use scientific names of plants.

WLEHOOZE - W Sampling Point:

Tree Stratum (Plot size:)	Absolute Do	ominant Indic	cator   Dominance Test worksheet:
7	% Cover S		Number of Dominant Species
2			The state of the s
3 2117	-		Total Number of Dominant
4.	and an action of the second second		
5			Percent of Dominant Species
6			That Are OBL, FACW, or FAC: (A/B)
	- T		Prevalence Index worksheet:
50% of total cover:			Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)	2070 01 101	ai cover:	OBL species x1=
1			FACW species x 2 =
2	the transfer provide the section of the section of	The second secon	rac species x 3 =
3. JOV	William Commission Com	Minima West College Burners	FACU species x 4 =
÷			UPL species x 5 =
5	d several sections		Column Tabels
6		THE PARTY OF THE P	Prevalence Index = B/A =
	= T(		Hydrophytic Vegetation Indicators:
50%) of total cover:	20% of tate		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 10 ft		V	V 2 - Dominance Test is \$50%
Shrub Stratum (Plot size: 10 4)	_5 \	W W	1 3 - Prevalence Index is ≤3.0¹
2			4 - Morphological Adaptations (Provide supporting
3	C According to the Control of the Co		data in Remarks or on a separate sheet)
A CONTRACTOR OF THE PROPERTY O			Explain)
5,		Name of the Party	The state of the s
6. PROPERTY AND ADMINISTRAL AND ADMINISTRAL AND ADMINISTRAL ADMINI			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	<u>S</u> = To	otal Cover	
50% of total cover: 2.4	20% of tota	al cover:	Tran Mandy plants such dis-
		/	approximately 20 ft (6 m) or more in height and 3 in
1. Juneus e Husus 2. Cudurgia peploides	15 -	FA	(7.6 cm) or larger in diameter at breast height (DBH),
		0	
3. Echnichton colone	1 - V	FA	approximately 20 ft (6 m) or more in height and less
4. Polygonum sceggitatum 5. Cypoxus strigosus	15 1		
6 Leers 10 virginica	25		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. Polygomen hy Dropiperoides	15	/ FA	P:
8.	13 -		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9.	REFERENCE MANAGEMENT	The second secon	plants, except woody vines, less than approximately 3
10	DOGGOOD PARTY OF THE PARTY OF T	Million Account year the even water	ft (1 m) in height.
11.	The state of the s	Andrew Andrews	Woody vine – All woody vines, regardless of height.
	100 = To	otal Cover	
50% of total cover: 50			0
Woody Vine Stratum (Plot size:)			Manusaya 1
1.	Security Section (1994) (and contains 1997)		
2.			1
	-		
4	-		
5.	EMPERICAN SERVICE APPRENT	The state of the s	Hydrophytia
	= To	tal Cover	Hydrophytic Vegetation
50% of total cover:	20% of total	l cover:	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	heet.)		

WLEHOOZE-W

Depth	ription: (Describe to the d				r or confirm	the absence of ind	icators.)
(inches)	Matrix Cofor (moist) %	Red Color (moist)	lox Feature:	S Type <sup>1</sup>	Lcc²	Texture	Damadia
0-6	104R3/2	104R 4/6	72	(	M.PL	LOAM	Remarks
6-18+	104R 41/2	104R 4/6	75	0	1/4		^
And the second of the second o	The state of the s	10/10/10		with the contract of the contra		CLAYLOHN	COLUMN TO THE PROPERTY OF THE
		-	-	***************************************			
Province Andrews Andrews		Annual Security States Contract to Assess the Security Se	de Minimiranous anna	Mintelaconemas		Principle Control of the Control of	endeda kangyiyyi dalibin oo segara waqee dhamii way ahanasayah barabada kana in haga waaniya wa abba kii garaban dha dali
	***************************************			10.000		10 <u></u>	
	No ALL Commence of the CONTROL COMMENCE OF T		_				TANKS I I I I I I I I I I I I I I I I I I I
W TOTAL PHONE THAT WAS A	11 EEF THE BANKY CONTROL OF THE BANK OF TH			-			
			Sife day a suprament		-	NOTE: THE PROPERTY OF THE PROP	
	The second secon		-		***************************************		
The second second second	A STATE OF THE PARTY OF THE PAR	AND PROPERTY OF THE PROPERTY OF THE PARTY OF	Financial	Action	District Control of	ADMINISTRAÇÃO DE CONTRACTOR DE	
Type: C-Co	ncentration D. Donlation D	M Dada da la		ALCOHOL: U.S.	and the second	2	
Hydric Soil I	oncentration, D=Depletion, R	IVI=Reduced IVIatrix, IV	IS=Masked	Sand G	irains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Histosol	(A1)	Dark Surfac	e (S7)				or Problematic Hydric Soils <sup>3</sup> :
	ipedon (A2)			ce (S8) (	MLRA 147,	148) Coast P	uck (A10) <b>(MLRA 147)</b> rairie Redox (A16)
Black His		Thin Dark S	urface (S9)	(MLRA	147, 148)		A 147, 148)
	n Sulfide (A4) Layers (A5)	Loamy Gley	ed Matrix (I	F2)			nt Floodplain Soils (F19)
	ck (A10) (LRR N)	Depleted M	atrix (F3)				A 136, 147)
	Below Dark Surface (A11)	Redox Dark Depleted Da	Surrace (F	6) (F7)		☐ Very Sh	allow Dark Surface (TF12)
Thick Da	rk Surface (A12)	Redox Depi	essions (F8	3)		Other (E	xplain in Remarks)
☐ Sandy M	ucky Mineral (S1) (LRR N,	☐ Iron-Manga	nese Masse	s (F12)	(LRR N,		
Sandy G	147, 148) leyed Matrix (S4)	MLRA 1					
Sandy R	edox (S5)	Umbric Surf Piedmont F	ace (F13) (	MLRA 1	36, 122)	3Indicators	of hydrophytic vegetation and
Stripped	Matrix (S6)	Red Parent	Material (F:	21) (MI 1	) (IVILRA 14) RA 127 147		lydrology must be present, sturbed or problematic.
Restrictive L	ayer (if observed):	The second secon			27. 32.7 5.65	/ uness as	stancea or problematic.
Туре:		***************************************					A/
	hes).	THE RESTRICT AND ADDRESS OF THE PERSON OF TH				Hydric Soil Prese	nt? Yes No
Remarks:	The state of the s		/	$\overline{}$			and the second s
		Lyone :	. 1			4	
	t t	tunc :	Sou	VK	2100	ser V	
		0		1			
	00 that 00 the 10 the 1						

## wleh002e\_w



Wetland data point wleh002e\_w facing east



Wetland data point wleh002e\_w facing south

Project/Site: Applicant/Owner: Chrystology Sampling Date: 930-1-4 Applicant/Owner: Chrystology Section. Township, Range: State: W. Sampling Date: 930-1-4 Applicant/Owner: Chrystology Section. Township, Range: Section. Township, Range: Landform dilislope, terrace, etc.): Lut. 39°5 5.412 Local relief (concave, convex, none): Local relie
Investigator(s):   Date 5   Section, Township, Range:   Landform (hillstope, terrace, etc.):   Landform (hillstope, terrace, etc.):   Lat:   39 5   Subject (concave, convex, none):   Lost-exist (convex, none):   Lost-exist (co
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Local relief (concave, none): Local relief (none): Not relief (relief (concave, none): Not relief (relief (concave, none)
Soli Map Unit Name:    Description (Lerk or Mil RA)
Are climatic / hydrologic contitions on the site typical for this time of year? Yes
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Surface Soil Cracks (B6)  Wetland Hydrology Indicators:  Price Water (A1) True Aquatic Plants (B14)   Hydrogen Sulfide Odor (C1)   Saturation (A3)   Oxidized Rhizospheres on Living Roots (C3)   Moss Trim Lines (B16)   Drainage Patterns (B10)   Drainage Patterns (B10)   Dray-Season Water Table (C2)   Recent iron Reduction in Tilled Soils (C6)   Saturation Visible on Aerial Imagery (B7)   Mater Stated Leaves (B8)   Stunded or Stressed Plants (D1)   Iron Deposits (B3)   Thin Muck Surface (C7)   Shallow Aquaticr G13)   Microtopographic Relief (D4)   FAC-Neutral Test (D5)   FedC-Neutral Test (D5)   FAC-Neutral Tes
Are Vegetation   Soil   or Hydrology   significantly disturbed?   Are "Normal Circumstances" present? Yes   No   No   No   No   No   No   No   N
Are Vegetation   Soil   , or Hydrology   naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?   Yes
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of two required)  Primary Indicators (minimum of one is required; check all Had apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  High Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B3)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Indicators (Minimum of two required)  Drives Season Water Table (C2)  Crayfish Burrows (C8)  Sturtator (Visible on Aerial Imagery (B7)  Water-Stained Leaves (B8)  Aquatic Fauna (B13)  Field Observations:
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Caddle pesture  HYDROLOGY  Wetland Hydrology Indicators:  Price Water (A1)  Surface Water (A1)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Water Marks (B1)  Seciment Deposits (B2)  Sediment Deposits (B2)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Into Deposits (B5)  Into Deposits (B5)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Wetland?  Ves No  No  No  Wetland?  Yes No
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Caddle pesture  HYDROLOGY  Wetland Hydrology Indicators:  Price Water (A1)  Surface Water (A1)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Water Marks (B1)  Seciment Deposits (B2)  Sediment Deposits (B2)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Into Deposits (B5)  Into Deposits (B5)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Wetland?  Ves No  No  No  Wetland?  Yes No
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of two required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Surface Ball Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inon Deposits (B5)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Is the Sampted Area within a Wetland?  Yes No  No  No  No  No  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Dorainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B10)  Drainage Patterns (B10)  Sturted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquatiard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Wetland Hydrology Present?  Wetland Hydrology Indicators:  Cabble pasture  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  High Water (A1)  High Water Table (A2)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Orif Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  FAC-Neutral Test (D5)  Field Observations:
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  High Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:
HYDROLOGY  Wettand Hydrology Indicators: Primary Indicators (minimum of two required) Surface Water (A1) High Water Table (A2) Hydrogen Sulfice Odor (C1) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Presence of Reduced Iron (C4) Sediment Deposits (B2) Prift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations:  Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Drainage Patt
Wetland Hydrology Indicators:  Primery Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Prift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Prift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Prift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Prift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)
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)
Surface Water (A1)  Surface Water (A2)  High Water Table (A2)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water (A1)  True Aquatic Plants (B14)  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)
Surface Water (A1)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)  Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)  Recent Iron Reduction in Tilled Soils (C6)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Other (Explain in Remarks)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Tield Observations:  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)  Field Observations:  Istinted of Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Field Observations:
Field Observations:
Surface Water Present? Yes No Penth (inches)
to pur (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
gauge, monitoring well, dental photos, previous inspections), if available:
Remarks:
No hydrology present
No hydrolog present

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

WLEHOOZ.	- 11
nolina Point:	A

veget ATION (Five Strata) – Use scientific n		<u> </u>		Sampling Point:	
Tree Stratum (Plot size: 30 ++)	Absolute		Indicator	Dominance Test worksheet:	
3. Firstinus alde americana	% Cover 5	Species?	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	_ (A)
3.	***************************************		T. (TEXAS)	Total Number of Dominant Species Across All Strata:	_ (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	_ (A/B)
6		- Total Cov	-	Prevalence Index worksheet:	
500/-50				Total % Cover of: Multiply by:	
50% of total cover: Z-S Sapling Stratum (Plot size:	20% o	f total cover	-	OBL species x 1 =	
Stra a co				FACW species x 2 =	**********
		E Mondemontosterioscopium		FAC species x 3 =	
3				FACU species x 4 =	
				UPL species x 5 =	
5				Column Totals:(A)	(B)
6.				Prevalence Index = B/A =	
	Maria Ma	= Total Cov	rei	Hydrophytic Vegetation Indicators:	
5θ% offtotal cover:	20% of	total cover		1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 50 H)	1	. 1	٨	2 - Dominance Test is >50%	
Claeagnes unlellater	2	LAC	NI	3 - Prevalence Index is ≤3.01	
3		-		4 - Morphological Adaptations <sup>1</sup> (Provide sudata in Remarks or on a separate sheet	pporting
A.S.		100 00000000000000000000000000000000000		Problematic Hydrophytic Vegetation <sup>1</sup> (Expl	
5. 6:	Edition of the State of the Sta	t day grapher and an analysis	Management of Management	Indicators of hydric soil and wetland hydrology	must
The state of the s	3	= Total Cov	er	be present, unless disturbed or problematic.	
5ρ% of Matal cover: 2.5			CONT. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO	Definitions of Five Vegetation Strata:	
Herb Stratum (Plot size:	57	total cover	Secondary of the Second	Tree - Woody plants, excluding woody vines,	rome
1. Festura overflinaga		1	FACU	approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (	3 in. DBH).
2. Am brosia ordenis dolice	12	$\prec$	- FAW	Sapling – Woody plants, excluding woody vine	S.
3. Setaria aparactodo pumila. Aster prosum	10	MICHEL SALVENDERS, POPENSON IN	FAC	approximately 20 ft (6 m) or more in height and than 3 in (7.6 cm) DBH.	less
5. Vernonica gigmen 6. Cony 24 canadons 13	_5_		FACU	Shrub – Woody plants, excluding woody vines,	
Andropogen Virginian	5	- Promoting and Andrews	FACU	approximatory 5 to 20 it (1 to 6 iii) in neight.	
8. Planting agosa	-2	***************************************	FACU	Herb - All herbaceous (non-woody) plants, incl herbaceous vines, regardless of size, and wood	uding
9	-	***************************************	FACU	plants, except woody vines, less than approxim	ately 3
10	The state of the s	Editorio Control Control Control	Extraorum estratura	ft (1 m) in height.	3
11	-	-	**************************************	Woody vine – All woody vines, regardless of he	eight.
	1075	= Total Cov	er		
50% of total cover:		total cover:			
Woody Vine Stratum (Plot size: )	2070 01	total cover,			
1. 6		BF-99-10-20-00-00-00-00-00-00-00-00-00-00-00-00			
2.		HP10713D771740Q0MACCO			
3	Microsophia			0	
4V					
5	E-MANUAL PROPERTY OF THE PARTY	AND THE PROPERTY OF THE PARTY O	NATION OF THE PARTY.	Distance	
5004 6		= Total Cove	1	Hydrophytic Vegetation	
50% of total cover:	20% of	total cover:		Present? Yes No	
Remarks: (Include photo numbers here or on a separate si	neet.)				
					1

WIE HOOZ \_U Sampling Point: \_\_\_\_\_

Profile Des	cription: (Describe to the o	lepth needed	to docum	ent the in	idicator o	or confirm	n the absen	ce of indica	ators.)
Depth _(inches)	Matrix Cofor (moist) %	Color (	Redox	Features					
0-8	1510/117		The second secon	2011/0/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	The same of the sa	Remarks
				-			LOW	n_	
8-18+	104R 5/4		THE A SHIPMAN AND THE REAL PROPERTY.	Managaran	Bod Distance was trees		CLAY	LOBM	
l ———							•		A CONTRACTOR OF THE PROPERTY O
Pleasing the game of regions below (as a party of a party	h-10-000-00-00-00-00-00-00-00-00-00-00-00								
		PATRONESSON PORTEGUARDO	district the same of the same	Methylaingeograpes	Military and American	American prompting and page	PARTIES CONTRACTOR SEVEN CONTRACTOR AND		
	With the contract of the contract of the contract of the contract of			******					
-	What remove particular and a second s	CONTRACTOR OF THE PARTY OF THE		-			***************************************		
-	Video the second control of the second of th			THE REAL PROPERTY.	WAY STATE OF THE S	New York Control of the Control of t	THE STREET STREET	One torrespondent	
				Principal Control of C			92.000.000 Message Access		
		0							The second secon
			and the same sale of the same	A CONTRACTOR OF THE PARTY OF TH	ACTIVITIES CONTROL SECTION OF THE PARTY OF T	Processor and Company of the Company	Extrapolating process specimens	THE PERSONAL PROPERTY.	THE RESIDENCE OF THE PROPERTY
¹Type: C=C	oncentration, D=Depletion, F	M=Reduced	Matrix, MS	=Masked 9	Sand Gra	ine	21 ocation	DI Dovo Li	ining DA DA Li
Hydric Soil	Indicators:	WWW. PRINCES OF THE P	710.01.01	WIGHTON .	Jana Gra	1113.	Indi	cators for	ining, M=Matrix. Problematic Hydric Soils³:
Histosol			k Surface						(A10) (MLRA 147)
	oipedon (A2)	Pol	yvalue Beld	ow Surface	e (S8) (M	LRA 147,	148)		rie Redox (A16)
Black H	istic (A3) en Sulfide (A4)	L Thi	n Dark Sur	face (S9)	(MLRA 14	47, 148)	Promoting 1	(MLRA	147, 148)
Stratified	d Layers (A5)		imy Gleyed oleted Matr		2)				Floodplain Soils (F19)
	ick (A10) (LRR N)		dox Dark S		:)		П		136, 147)
☐ Deplete	d Below Dark Surface (A11)		oleted Dark						ow Dark Surface (TF12) Iain in Remarks)
	ark Surface (A12)	Red	dox Depres	sions (F8)	)		Amused	outor (EMP	idar ar remains)
L Sandy N	Mucky Mineral (S1) (LRR N, A 147, 148)		n-Mangane		s (F12) (L	.RR N,			
	Gleyed Matrix (S4)		MLRA 136		#LD0 406		7.	700	2
Sandy F	Redox (S5)	Pie	bric Surfac dmont Floc	e (F13) (N odolain Soi	NLKA 136	5, 122) Bill D.A. 14	) i	ndicators of	hydrophytic vegetation and
	Matrix (S6)	Rec	d Parent Ma	aterial (F2	1) (MLRA	127. 147			rology must be present, rbed or problematic.
Restrictive I	Layer (if observed):		~			***************************************	1	THOUS CHOCK	roce or problematic.
Type:									
Depth (in Remarks:	ches).	The state of the s	3		and the second of the second o		Hydric Sc	oil Present?	Yes No No
		No	1	1:		1			٨
		NO	nyo	MIC	Se	Wit	M	2 1 Qm	
	,		0			,	100	02011	

## wleh002\_u



Upland data point wleh002\_u facing north



Upland data point wleh002\_u facing west

## wleh002 soils



Wetland/upland soils

Project/Site: Atlantic Coast Pip	peline	City/Co	unty: Lewis County		Sampling Date: 11/16/2015
Applicant/Owner: Dominion					Sampling Point: wlea079e_w
		Section	. Township, Range: No	PLSS in this area	
Landform (hillslope, terrace, et					
Subregion (LRR or MLRA): N					Datum: WGS 1984
Soil Map Unit Name: Gilpin-Up	Lat oshur silt loams 35 to 70 i	percent slopes, severe	Long	NA// 1 'C'	None
Are climatic / hydrologic condit					
Are Vegetation, Soil	, or Hydrology	significantly disturbe	ed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrology	_ naturally problemati	c? (If needed, e	explain any answer	s in Remarks.)
SUMMARY OF FINDING	GS – Attach site ma	p showing samp	oling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	No			
Hydric Soil Present?	Yes V	No	s the Sampled Area	4	
Wetland Hydrology Present?	Yes	No	within a Wetland?	Yes	No
Remarks:					
Saturated PEM wetland locate culvert under existing farm roa		ty within an active catt	le pasture; severely tra	mpled; two polygo	ns collected, connected via
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required; check	all that apply)		Surface Soil (	Cracks (B6)
Surface Water (A1)	T	rue Aquatic Plants (B	14)		etated Concave Surface (B8)
High Water Table (A2)		lydrogen Sulfide Odor		✓ Drainage Pat	terns (B10)
Saturation (A3)			on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced I			Vater Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (C7			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	_ `	Other (Explain in Rema	arks)	Geomorphic	ressed Plants (D1)
Inundation Visible on Ae	rial Imagery (R7)			Shallow Aqui	` '
Water-Stained Leaves (E					phic Relief (D4)
Aquatic Fauna (B13)	, , ,			FAC-Neutral	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes No				
Saturation Present?	Yes No No			lydrology Presen	t? Yes 🗸 No
(includes capillary fringe)					
Describe Recorded Data (stre	eam gauge, monitoring we	ell, aerial photos, previ	ous inspections), if ava	ilable:	
Remarks:					
Tromano.					

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

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_ 1. Schedonorus arundinaceus

4. Symphyotrichum dumosum

2. Juncus effusus 3. Carex lurida

<ul> <li>Use scientific na</li> </ul>	ames of plants	<b>;</b> _	Sampling Point: wlea079e_w
`		ant Indicator	Dominance Test worksheet:
)	% Cover Specie	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2
			Total Number of Dominant Species Across All Strata: 3
			Percent of Dominant Species That Are OBL, FACW, or FAC:  66.6666666
			Prevalence Index worksheet:
	0		Total % Cover of: Multiply by:
% of total cover:	= Total (	^	OBL species 20 x 1 = 20
15 ,	20% or total co	ver	FACW species 20 x 2 = 40
)			FAC species 20 x 3 = 60
			FACU species 25 x 4 = 100
			$\begin{array}{cccc}  & & & & & & & \\  & & & & & & \\  & & & &$
			Column Totals: 85 (A) 220
			Prevalence Index = B/A =2.58
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0 = Total (		4 - Morphological Adaptations <sup>1</sup> (Provide suppo
% of total cover:0	20% of total co	ver:0	data in Remarks or on a separate sheet)
)			Problematic Hydrophytic Vegetation¹ (Explain)
	25 Yes		1 Toblematic Tryarophytic Vegetation (Explain)
		<del></del>	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu
			be present, unless disturbed or problematic.
	10No	FAC	Definitions of Four Vegetation Strata:
	10No	FAC FAC	
			<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles height.
			Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than or equal to 3.28 ft m) tall.
	05		Herb – All herbaceous (non-woody) plants, regard
40 5	85 = Total (	4-	of size, and woody plants less than 3.28 ft tall.
9% of total cover: <u>42.5</u> 30 )	20% of total co	ver: 17	<b>Woody vine</b> – All woody vines greater than 3.28 fi height.
			Hydrophytic
			Vegetation Present?  Yes No
0% of total cover:	0 = Total ( 20% of total co	^	100

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

5. Xanthium strumarium

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

Sampling Point: wlea079e\_w

Profile Des	cription: (Describe	to the de	pth needed to docur	nent the i	ndicator	or confirm	the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature:		. 2	_	
(inches) 0-6	Color (moist) 7.5YR 4/1	<u>%</u> 90	Color (moist) 7.5YR 4/6	<u> </u>	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SICL	Remarks
		90				· <del></del>		
6-14	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
	·							
								-
	·							
	, <u> </u>							
	Concentration, D=Depl	letion, RM	I=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface		(00) (1			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3) en Sulfide (A4)		Thin Dark Su Loamy Gleye	, ,	•	147, 148)		(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)
	ed Below Dark Surface	e (A11)	Depleted Dar		•			Other (Explain in Remarks)
Thick D	ark Surface (A12)		Redox Depre	essions (F	8)			
	Mucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13				2	
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	d Matrix (S6)  Layer (if observed):		Red Parent N	nateriai (F	21) (IVILR	A 127, 147	<b>')</b> u	ınless disturbed or problematic.
Type: sil	Ity clay							
							Unadala Ca	oil Present? Yes No
Depth (in	iches).						nyuric So	oil Present? Yes No No No
Remarks:								



Photo 1 Wetland data point WLEA079e\_w facing west



Photo 2
Wetland data point WLEA079e\_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Lewis County	Sampling Date: 11/16/2015		
Applicant/Owner: Dominion		State: WV Sampling Point: wlea079_u		
	Section, Township, Range: N			
Landform (hillslope, terrace, etc.): slope				
Subregion (LRR or MLRA): N		.38795649 Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Upshur silt loams, 3	5 to 70 percent slopes, severely eroded	NWI classification: None		
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)		
		al Circumstances" present? Yes No		
	y naturally problematic? (If needed,			
		ons, transects, important features, etc.		
		<u> </u>		
	No V Is the Sampled Area within a Wetland?			
	No v within a Wetland?	Yes No V		
Remarks:	110			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required	check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)			
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:	<b>M</b>			
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes No		
	oring well, aerial photos, previous inspections), if av	ailable:		
Remarks:				
no hydrology indicators present				

#### ٧

That Are OBL, FACW, or FAC: 0 (#   That Are OBL, FACW, or FAC: 0   #   That Are OBL, FACW, or FAC: 0	20		bsolute	Dominant Ir		Dominance Test worksheet:
Total Number of Dominant Species Across All Strata: 1 (graphing)   Total Cover   Total Face   Total Species Across All Strata: 1 (graphing)   Total Cover   Total Face   Tot	ree Stratum (Plot size:)		<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
						That Are OBL, FACW, or FAC: (A)
Species Across All Strata: 1 (8   Percent of Dominant Species   That Are OBL, FACW, or FAC: 0 (9   Prevalence Index worksheet: Total & Cover of the Cover of Solve of total cover: 15   Solve of total cover: 16   Solve of total cover: 18						Total Number of Dominant
Percent of Dominant Spacies   Deciding   That Are OBL, FACW, or FACE   Deciding   Deci						1
That Are OBL, FACW, or FAC: 0 (## Prevalence Index worksheet: Total % Cover of Multiply by: OBL, species 0 x 1 = 0						
Prevalence Index worksheet:   Total % Cover of:   Multiply by:   OBL species   0						
Total % Cover of:						That Ale OBE, I AOW, OI I AO.
Solid Cover						Prevalence Index worksheet:
Solidation   Sol			0	- Total Cayo		Total % Cover of: Multiply by:
### Stratum (Plot size: 15   15   15   15   15   15   15   15	50% of total cove	ır. 0 <u> </u>				OBL species0 x 1 =0
FAC species 12 x3 = 36 FACU species 78 x4 = 312 UPL species 0 x5 = 0 Column Totals: 90 (A) 348  Prevalence Index = B/A = 3.86  Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0' 4 - Morphological Adaptations' (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation '(Explain) Trifolium repens 8 No FACU Symphyotrichum dumosum 5 No FACU Symphyotrichum dumosum 5 No FACU Cichorium intybus 5 No FACU Taraxacum officinale 5 No FACU Taraxacum officinale 5 No FACU Some of total cover: 45 20% of total cover: 18 Some of total cover: 45 20% of total cover: 18 Sapling/Shrub - Woody plants, excluding vines, 18 in .DBH and greater than or equal to 3.28 it with an 3 in .DBH and greater than or equal to 3.28 it woody vine Stratum (Plot size: 30)  Woody vine - All woody vines greater than 3.28 it height.  Hydrophytic Vegetation  1 - Harbing - All woody vines greater than 3.28 it height.	15	۱	_ 20 /0 01	total cover		0
FACU species 78 x 4 = 312 UPL species 0 x 5 = 0 Column Totals: 90 (A) 348  Prevalence Index = B/A = 3.86  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is 3.0 (Provide supported at a in Remarks or on a separate sheet)  50% of total cover:  5 No FACU  7/// Synchypotrichum dumosum  7 No FACU  7/// Symphyotrichum dumosum  5 No FACU  7/// Synchypotrichum dumosum  5 No FACU  7// Synchypotrichum dumosum  5 No FACU  8// Synchypotrichum dumosum  5 No FACU  9// Synchypotrichum dumosum  5 No FACU  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  8// Splintian of Four Vegetation from or equal to 3.28 ft tall.  1// Synchypotrichum dumosum  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1// Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1// Indicators of hydrophytic Vegetation from the problematic hydro		)				12 26
UPL species 0 x5 = 0 Column Totals: 90 (A) 348  Prevalence Index = B/A = 3.86  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0¹ 4 - Morphological Adaptations¹ (Provide supportation repens) 8 No FACU Symphyotrichum dumosum 7 No FACU Symphyotrichum dumosum 5 No FACU Cichorium intybus 5 No FACU Taraxacum officinale 5 No FACU Taraxacum officinale 5 No FACU Species 0 x5 = 0 Column Totals: 90 (A) 348  Prevalence Index = B/A = 3.86  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0¹ 4 - Morphological Adaptations¹ (Provide supportation factors of Provide supportatio						70 212
Column Totals: 90 (A) 348  Prevalence Index = B/A = 3.86  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  50% of total cover:  600 Yes FACU  71 No FACU  72 Hydrophytic Vegetation Indicators:  600 Yes FACU  72 Hydrophytic Vegetation Prevalence Index is \$3.80  600 Yes FACU  72 Hydrophytic Vegetation Prevalence Index is \$3.80  600 Yes FACU  72 Hydrophytic Vegetation Prevalence Index is \$3.80  600 Y						
Prevalence Index = B/A = 3.86    Hydrophytic Vegetation Indicators:						00 3/8
Prevalence Index = BIA =						Column Totals: (A) (B)
Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%   3 - Prevalence Index is ≤3.0   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   3 - Prevalence Index is ≤3.0   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   3 - Prevalence Index is ≤3.0   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   3 - Prevalence Index is ≤3.0   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   3 - Prevalence Index is ≤3.0   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   4 - Morphological Adaptations   (Provide support data in Remarks or on a separate sheet)   2 - Dominance Test is >50%   5 - No FACU   5	<u> </u>					Prevalence Index - B/A - 3.86
1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50% of total cover:   0   20% of total cover:   0   20% of total cover:   0   20% of total cover:   0   3 - Prevalence Index is \$3.0°   4 - Morphological Adaptations' (Provide support data in Remarks or on a separate sheet)   Problematic Hydrophytic Vegetation   (Explain)	·					1 Tevalence mack = B/TC =
2 - Dominance Test is >50%						
Solve of total cover:   0   0   = Total Cover   0   20% of total cover:   0   3 - Prevalence Index is \$3.0¹   4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)   - Problematic Hydrophytic Vegetation¹ (Explain)   1 - Problematic Hydrophytic vegetation   1 - Problematic Hydrophytic vegetation   1 - Problematic Hydrophytic vegetation² (Explain)   1 - Problematic Hydrophytic vegetation² (Explain)   1 - Problematic Hydrophytic vegetation   1 - Problematic Hydrophytic vegetation² (Explain)   1 - Problematic Hydrophytic vegetation   2 - Problematic Hydroph						
Solid Cover   Solid Cover   O   20% of total cover   O   O   20% of total cover   O   O   O   O   O   O   O   O   O						
Stratum (Plot size: 5   5   )   Schedonorus arundinaceus   5   60   Yes   FACU   Trifolium repens   8   No   FACU   Symphyotrichum dumosum   5   No   FACU   Traaxacum officinale   5   No   FACU   Traaxacum officinale   5   No   FACU   Tree - Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft tall.    Sapling/Shrub - Woody vine Stratum (Plot size: 30   50% of total cover: 0   20% of total cover: 0   0   20% of total cover: 0   0   0   0   0   0   0   0   0   0	-		0 .	- Total Cayo	,	
data in Remarks or on a separate sheet)  Schedonorus arundinaceus  Trifolium repens  8 No FACU Symphyotrichum dumosum  7 No FAC Xanthium strumarium  5 No FACU Taraxacum officinale  5 No FACU  Taraxacum officinale  5 No FACU  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree — Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub — Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft all.  Woody Vine Stratum (Plot size: 30 )  50% of total cover: 45 20% of total cover: 18  Woody vine - All woody vines greater than 3.28 ft height.  Hydrophytic Vegetation  Hydrophytic Vegetation Yes in the present? Yes No  Hydrophytic Vegetation Present? Yes No  Hydrophytic Vegetation Present? Yes No  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree — Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft with all.  Woody vine — All woody vines greater than 3.28 ft height.	50% of total cove	.r. 0 <u> </u>				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Schedonorus arundinaceus   60   Yes   FACU   Schedonorus arundinaceus   8   No   FACU   FACU   Symphyotrichum dumosum   7   No   FACU   Symphyotrichum dumosum   5   No   FACU   Solition of Four Vegetation Strata:   Definitions of Four Vegetation Strata:   Tree - Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.   Sapling/Shrub - Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft 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 height.   Hydrophytic Vegetation   Yes No/   Hydrophytic Vegetation   Yes	r	ži	_ 20 /0 01	total cover		data in Remarks or on a separate sheet)
Trifolium repens   8	ieib Stratuiii (Fiot Size)		60	Ves	ΕΔCII	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Symphyotrichum dumosum	·					
Symphyoricham damosam   T No FAC   No FAC						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Taraxacum officinale   5 No FACU   Tree - Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.    Sapling/Shrub - Woody plants, excluding vines, 1e than 3 in. DBH and greater than or equal to 3.28 ft m) tall.   Herb - All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.				<del></del>		
Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, 18 in. DBH and greater than or equal to 3.28 ft. m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  Woody Vine Stratum (Plot size: 0 = Total Cover 20% of total cover: 0 = Total Cover 20% of total cover: 0 = Total Cover 20% of total cover: 0   Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, 18 in. DBH and greater than 0 in 2.28 ft. m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft height.  Woody vine – All woody vines greater than 3.28 ft height.  Hydrophytic Vegetation Present? Yes No Vegetation Present? Yes No Vegetation Present?						Definitions of Four Vegetation Strata:
more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  Woody Vine Stratum (Plot size: 30 )  Myody vine – All woody vines greater than 3.28 ft height.  Hydrophytic Vegetation Present? Yes No Volume No. Vol			5	No	FACU	
height.  Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than or equal to 3.28 ft m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  Woody Vine Stratum (Plot size: 0 = Total Cover	_ Taraxacum officinale		5	No	FACU	
than 3 in. DBH and greater than or equal to 3.28 ft m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  Woody Vine Stratum (Plot size: 0 = Total Cover	-					
than 3 in. DBH and greater than or equal to 3.28 ft m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30 )  Woody Vine Stratum (Plot size: 0 = Total Cover						
0						
1	 N					
90 = Total Cover 50% of total cover: 45 20% of total cover: 18  Woody Vine Stratum (Plot size: 30 )						
50% of total cover: 45 20% of total cover: 18  Woody Vine Stratum (Plot size: 30 )  Hydrophytic Vegetation Present? Yes No Vegetation Present?	1		90			Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size:	FOO/ of total cours	- 45				of size, and woody plants less than 3.26 it fall.
Hydrophytic Vegetation Present? Yes No V		er:	_ 20% 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Hydrophytic Vegetation Present? Yes No Volume	Voody Vine Stratum (Plot size:	_)				height.
Hydrophytic Vegetation Present? Yes No V	•					
Hydrophytic Vegetation Present? Yes No Volume						
Solve of total cover: 0 20% of total cover: 0 Present? Yes No Vegetation Present? No Vegetation Present?						
	•					Hydrophytic
0 = Total Cover 50% of total cover: 0 20% of total cover: 0 Present? Yes No						
50% of total cover: 0 20% of total cover: 0			0	= Total Cove		
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cove	er: 0 -			_	
ternains. (include proto numbers here or on a separate sheet.)	00 /0 01 10101 00 10	,	_	total oover		
	lemarke: (Include photo numbers here or an a se	cualate SHE	; <del>c</del> l.)			
	Remarks: (Include photo numbers here or on a so	opalato ollo				
	emarks: (Include photo numbers here or on a so	oparato orre				

Sampling Point: wlea079\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the absen	ice of indicators.)
Depth	Matrix		Redo	x Features	S	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
0-4	7.5YR 3/3	100						
4-12	7.5YR 4/3	100					SCL	
12-18	7.5YR 4/4	100					SCL	
	-			-				_
	<u> </u>							
	· -							
	<u> </u>							
	Concentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Inc	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) (LRR N)		Depleted Material Redox Dark S		·c)			(MLRA 136, 147)
	ed Below Dark Surfa	ca (Δ11)	Redox Dark s					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Park Surface (A12)	CC (A11)	Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1)	(LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)	,	MLRA 13		( )(	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l <b>8</b> )	wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed)	):						
Type:								
Depth (ir	nches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point WLEA079\_u facing west



Photo 2 Upland data point WLEA079\_u facing north

Project/Site: ACP City/County: LEWIS Sampling Date: 9-30-1
ADDITION AND DESCRIPTION OF THE PARTY OF THE
Investigator(s): Scatter Township D
Landform (hillslope, terrace, etc.): Dooress
Are climatic / bydrologic conditions on the cite the internal for the cite t
Ale Vederation     Soil     or   Indiana
Are Venetation Soil Soil Soil No No
(in reduced, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hardren havin V
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area  Is the Sampled Area
Western Hard Hard Hard Hard Hard Hard Hard Hard
Remarks:
100 ++
All three parameters present
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
True Aquatic Plants (B14)  Sparsely Verietated Concave Surface (Re)
Saturation (A3)  Drainage Patterns (B10)
Water Marks (B1) Water Marks (B1) Water Marks (B1)
Sediment Deposits (B2)  Dry-Season Water Table (C2)
Drift Deposits (B3)  Thin Muck Surface (C7)  Craylish Burrows (C8)
L Algal Mat or Crust (B4) Other (Explain in Pemerke)
I ron Deposits (B5)
The resident Algorithm (All )
Water-Stained Leaves (B9) Aquatic Fauna (B13) Microtopographic Relief (D4)
Field Observations:
1
104-1 77 1 1 7 more and a proposed prop
Saturation Processes
(includes capillary fringe) Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Old pend w/ broken dom Hydrology present
Hudonomy mercut
30.000
*

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

Sampling Point:\_\_\_\_\_\_\_\_\_

T	Absolute Dominant Indicator	Dominary of Tarket
Tree Stratum (Plot size:)	% Cover Species? Status	Total Workshoot.
1		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
a da		
		Total Number of Dominant
4.		
5		Percent of Dominant Species 1
6.		That Are OBL, FACW, or FAC: (A/B)
b.		Prevalence Index worksheet:
F00/ -5	- Total Cover	
50% of total cover:	20% of total cover:	
Sapling Stratum (Plot size:)		OBL species x 1 =
1 - Comment of the co	or for the same of	FACW species x 2 =
2.		rac species x 3 =
3.	MANUFACTURE AND PROPERTY AND PR	Y 4 =
	And a second sec	UPL species x 5 =
5.	And an experimental and a second seco	Column Totals: (A) (B)
6		
		Prevalence Index = B/A =
EOD/ of total an	= Total Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:)	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
1		2 - Dominance Test is >50%
	And production of the control of the	3 - Prevalence Index is ≤3,01
		4 - Morphological Adaptations (Provide supporting
	The second distribution of the second	data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		
O .	A. COLLEGE STATE S	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	= Total Cover	be present, unless disturbed or problematic.
50% (Dotal cover:	20% of total covers	Definitions of Five Vegetation Strata:
Herb Stratum (Piot size:		Tree - Woody plants, excluding woody vines,
1. Echnichlon colona	40 V FACH	approximately 20 ff (6 m) or more in height and 2 in
2. Leorsia ujrginica		
3. Cyperus strigusus		1 Septing Tayoody Didnes, excitoing Woody What
· Eleochani porvula	D FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5.	10 OBL	Talah 3 III. (7.6 chi) UBH.
6.	4 encountries in the second control of the second s	Shrub – Woody plants, excluding woody vines.
Constitution of the second sec	Security of the security of th	approximately 3 to 20 ft (1 to 6 m) in height.
8.		Herb - All herbaceous (non-woody) plants, including
	AND THE PROPERTY AND TH	herbaceous vines, regardless of size and woody
CONTROL OF THE PROPERTY OF THE	PONEDBORROUND DECEMBER BYENDESDEEVERSEE DETERMENT ************************************	plants, except woody vines, less than approximately 3 ft (1 m) in height.
10		
11		Woody vine – All woody vines, regardless of height.
	WD = Total Cover	
50% of total cover: 5	D 20% of total cover: 20	
Woody Vine Stratum (Plot size:)	Marian Ma	
1		
2.	NATIONAL PROPERTY SHAPE SHAPE STATE	
3	And the second s	
4	And the second s	
5		
And the second s	Contraction of the second seco	Hydrophytic
	= Total Cover	Vegetation T
50% of total cover:	20% of total cover:	Present? Yes No No
Remarks: (Include photo numbers here or on a separate s	neet.)	

WLEHOUGE Sampling Point: -W

Profile Desci	iption: (Describe to the	iepth needed to docu	ment the	indicator	or confirm	the absence of ind	icators.)
Depth (inches)	Matrix Cofor (moist) %	Red Color (moist)	ox Feature	es .			
0-5	LOYR 3/2		- <u>%</u>	Type'	_tcc²_		Remarks
5-18+	10484/7	W4R 4/6	73	<u>C</u>	M,PL	- LOAM	
0 10	10415912	104R 416	75	C	m	CLAYLOBI	n
							and the supplier of the suppli
-							
		Security and provide and advantage provided the second polynomial and a second	Productive Control of Control	***************************************	*****************	Table and the organization of the contract of	
				-			The same of the sa
		**************************************		-	-		
*	Commence of the second			NACOTAL PROPERTY AND ADDRESS OF THE PARTY AND	*		
			· Links				
1	1.5				-	Substitute in the many substitution in principle against account of	
			Lancon Control Control	ANTENNA SURVEYOR	-	- 1	
Type: C=Cor	ncentration, D=Depletion, F	PM-Deduced Matrix M	C 841	10 10	E BROWN CONTRACTOR	The service of the se	
lydric Soil In	dicators:	IVI-Reduced Matrix, M	S=IVIasked	a Sand Gr	ains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Histosol (/	A1)	☐ Dark Surface	2 (\$7)				or Problematic Hydric Soils <sup>3</sup> :
	pedon (A2)	Polyvalue Be		ce (S8) (1	NI DA 1A7	148) Coast D	ck (A10) <b>(MLRA 147)</b> airie Redox (A16)
Black Hist		Thin Dark Su	urface (S9)	(MLRA	47, 148)		A 147, 148)
Hydrogen	Sulfide (A4) Layers (A5)	Loamy Gley	ed Matrix (	(F2)			t Floodplain Soils (F19)
2 cm Muc	k (A10) (LRR N)	Depleted Ma	itrix (F3)			(MLR)	A 136, 147)
Depleted I	Below Dark Surface (A11)	Redox Dark Depleted Da	Surface (F	·6)		Very Sha	allow Dark Surface (TF12)
Thick Darl	k Surface (A12)	Redox Depre	rk Suriace Pssions (F	? (F7) R)		Other (E:	xplain in Remarks)
Sandy Mu	icky Mineral (S1) (LRR N,	☐ Iron-Mangan	ese Mass	es (F12) (	I RR NI		
MLRA	147, 148)	MLRA 13	6)				
Sandy Gle	eyed Matrix (S4)	Umbric Surfa	ice (F13) (	MLRA 13	6, 122)	3Indicators	of hydrophytic vegetation and
Stripped M		Piedmont Flo	odplain S	oils (F19)	(MLRA 14)	<li>B) wetland hy</li>	ydrology must be present,
	yer (if observed):	. Red Parent N	viaterial (F	21) (MLR	A 127, 147	unless dis	turbed or problematic.
Depth finch	es)	Contract Con					
Remarks:						Hydric Soil Preser	it? Ves No
						•	
		1/	1	•	1	./) -	
		Hye	Urc	Soll	l pre	esent	
		, 0			1		

## wleh006e\_w



Wetland data point wleh006e\_w facing east



Wetland data point wleh006e\_w facing south

Project/Site: ACP
Project/Site: TICP City/County: LEW (5 Sampling Date: 9-30-Applicant/Owner: Dominion State: 4116
Investigator(s): State: WV Sampling Point WLEHO
London Gill Control Township, Range
Subregion (LRR or MLRA): Local relief (concave, convex, none): Convex Slope (%): 6-1
Soil Man Unit Name: 1/5/2 137 18.93 10ng & 23.35. Z2" Daium: WGS
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology (If no, explain in Remarks.)
Are "Normal Circumstances" present? Yes No
Are Vegetation Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No
Hydric Soil Present?  Yes No
Wetland Hydrology Present? Yes No No
Remarks:
Notall three parameters present
HYDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (minimum of two required)
I I C. C. W. W. W. STORY TO STORY
High Water Table (A2)  Light Water Table (A2)  Light Water Table (A2)  Light Water Table (A2)
Saturation (A3)
Water Marks (B1) Water Marks (B1)
Sediment Denosits (B2)  Dry-Season Water Table (C2)
Drift Denosits (R3)
Algal Mat or Crust (B4)  Other (Explain in Permarks)
iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)  Geomorphic Position (D2)
Water-Stained Leaves (B9)  Aguatic Fauna (B13)  Shallow Aquitard (D3)  Microtopographic Relief (D4)
FAC Noutral Tank (Dr.)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes Depth (inches):
Saturation Present? Yes No. (Value)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No hydrology present
100 regardage present

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

Sampling Point: UE # 006

Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
7	70 COVEL Species! Status	Number of Dominant Species That Are OBL, FACW, or FAC.
4	CANCEL CONTRACTOR AND ADDRESS OF THE PARTY O	Species Across All Strata: (B)
		3
6		That Are OBL, FACW, or FAC: (A/B)
	- Total Cover	Prevalence Index worksheet:
50% of total cover	20% of total cover:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: )	ZO/6 OF TOTAL COVER:	OBL species x 1 =
	The string Environment States and	FACW species x 2 =
2.	Personal Statement Control of	FAC species x 3 =
3.	The second production of the second production	FACU species x 4 =
		UPL species x 5 =
Commence of the second	TO SECURE	Column Totals: (A) (B)
6		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 kg)  1. Rosh multiplora	And a second Consideration and	2 - Dominance Test is >50%
ROSA multithora	LO U FACU	3 - Prevalence Index is ≤3.01
2. Elaeagnus umbellata	5 WW NI	4 - Morphological Adaptations (Provide supporting
3	The state of the s	data in Remarks or on a separate sheet)
A STORY OF THE PARTY OF THE PAR		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5	Longwoods - Manual Andrewson     Concern adultation of process - Annie Manual Annie - Annie Manual Annie - Annie	Indicators of bushing it
b.	Commission of the Commission o	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
500/	S = Total Cover	Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 10 )	5 20% of total cover: 3	Tree – Woody plants, excluding woody vines,
1. Festuca arundmacen	SA / 1	approximately 20 ff (6 m) or more in height and 3 in
2 AMBRUSIA ON LONGE LAL.	10	(7.6 cm) or larger in diameter at breast height (DBH).
3. Amaranthus spinosus	10 FACU	Sapling - Woody plants, excluding woody vines,
4.		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5.	Biological and the second seco	
6		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7.	The same of the sa	Herb - All herbaceous (non-woody) plants, including
8,	PROGRAMMENT METERS AND	nerbaceous vines, regardless of size, and woody
9.	TRANSCORPENDED DATES DESCRIPTION TO THE PROPERTY OF THE PROPER	plants, except woody vines, less than approximately 3 ft (1 m) in height.
11	And the second s	
	100	Woody vine - All woody vines, regardless of height.
500/	Total Cover	
Woody Vine Stratum (Plot size:)	20% of total cover:	
7		
	положения рединитерствика — в неголицирующих положения в ториностичности и неголи	
	destable reducementalistics of Advision of the Conference of Advision of the Conference of the Confere	
4.		
5	And a second sec	
	= Total Cover	Hydrophytic
50% of total cover:	Enter the state of	Vegetation Present? Yes
Remarks: (Include photo numbers here or on a separate si	neet.)	Annual INO Language
,	*	

Profile Description: (Describe to the de	pth needed to document the indicator or confirm the absence of indicators.)
L GISTI	Redox Features
(inches) Cofor (moist) %	Color (maist) % Type¹ Loc² Texture Remarks
0-5 7.54R 4/4	
5-16+ 7.54R 5/41	Sangloam
The second secon	CLAYLOAM
	A STATE OF THE PROPERTY OF THE
The second secon	purity of the antique of the purity of the p
	Character Funda character (A) and a second (A) and a seco
	The state of the s
The second secon	Management and the second seco
The state of the s	
A beautiful of building and building of building and buildings and build	
1 - Company of the Co	
Bankaran parameter and a second parameter and	
'Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.
right of indicators.	=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Histosol (A1)	Dark Surface (S7)  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLDA 247)
Histic Epipedon (A2)	Tom E on Mack (AIO) (MILITA 14/)
Black Histic (A3)	Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16)  (MLRA 147, 148)  (MLRA 147, 148)
Hydrogen Sulfide (A4)	
Stratified Layers (A5)	Donolated Marking (50)
2 cm Muck (A10) (LRR N)	(112101 100, 141)
Depleted Below Dark Surface (A11)	Total Stratov Daily Stratov Da
Thick Dark Surface (A12)	Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Redox Depressions (F8)
MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N,
Sandy Gleyed Matrix (S4)	MLRA 136)
Sandy Redox (S5)	Umbric Surface (F13) (MLRA 136, 122)  Plindment Flands II (F13) (MLRA 136, 122)
Stripped Matrix (S6)	wetland hydrology must be present,
Restrictive Layer (if observed):	Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Type:	manufacture de la constant de la con
Depth (inches).	Hydric Soil Present? Yes No
Remarks:	NO TOTAL PROPERTY OF THE PROPE
	No hydre soil present
	100 rigeric Soy present
	t.

## wleh006\_u



Upland data point wleh006\_u facing north



Upland data point wleh006\_u facing west

## wleh006 soils



Wetland/upland soils

Project/Site: Atlantic Coast Pipe	line	City/C	County: Lewis County		Sampling Date: 11/16/2015		
Applicant/Owner: Dominion			State: WV Sampling Point: wlea080e_w				
		Section Section	on, Township, Range: No	PLSS in this area			
Landform (hillslope, terrace, etc.					Slope (%): <u>4</u>		
Subregion (LRR or MLRA): N	L	at: 39.08339145	Long: -80.5	38843371	Datum: WGS 1984		
Soil Map Unit Name: Monongah	ela silt loam, 3 to 8 ¡	percent slopes		NWI classifica	ation: None		
Are climatic / hydrologic conditio							
Are Vegetation, Soil	. or Hydrology	significantly distur	bed? Are "Norma	l Circumstances" p	resent? Yes V No		
Are Vegetation, Soil							
-					important features, etc.		
Hydrophytic Vegetation Preser		No No	Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:	163						
polygons collected, connected v	THE CHIVET UNDER CAR	sung tariii road.					
HYDROLOGY							
Wetland Hydrology Indicator				·	tors (minimum of two required)		
Primary Indicators (minimum o				Surface Soil (			
Surface Water (A1)		_ True Aquatic Plants (			etated Concave Surface (B8)		
High Water Table (A2)		_ Hydrogen Sulfide Od		✓ Drainage Pat			
Saturation (A3) Water Marks (B1)		<ul><li>Oxidized Rhizospher</li><li>Presence of Reduced</li></ul>	es on Living Roots (C3)	Moss Trim Lir	Vater Table (C2)		
Sediment Deposits (B2)		<ul><li>Recent Iron Reduction</li></ul>		Crayfish Burn	· ·		
Drift Deposits (B3)	_	Thin Muck Surface (0		-	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	_ Other (Explain in Rer			ressed Plants (D1)		
Iron Deposits (B5)	_	_ ` ` '	,	Geomorphic I			
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquit	ard (D3)		
Water-Stained Leaves (B9	)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?		Depth (inches):	1				
Water Table Present?		Depth (inches):	•		_		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland H	Hydrology Present	t? Yes / No		
Describe Recorded Data (stream	ım gauge, monitorin	g well, aerial photos, pre	evious inspections), if ava	ailable:			
·							
Remarks:							

Sampling	Point: wlea080e_	W
Sambiinu	Point. ""	

Trop Ctrotum (Dist size: 30)	Absolute	Dominant In	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  66.6666666 (A/B)
6				That Ale OBE, I AOW, OF I AO.
7.				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:		total cover:	0	OBL species25 x 1 =25
Sapling/Shrub Stratum (Plot size: 15 )	20 /0 01	total cover		FACW species 25 x 2 = 50
				FAC species 15 x 3 = 45
1				FACU species 20 x 4 = 80
2				UPL species
3				85 200
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =2.35
6				Hydrophytic Vegetation Indicators:
7				-
8				1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%
9.				
	0 _	= Total Cover		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
1 Carex lurida	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juncus effusus	20	Yes	FACW	
3. Schedonorus arundinaceus	20	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10		FAC	be present, unless disturbed or problematic.
4. Xanthium strumarium		No No		Definitions of Four Vegetation Strata:
5. Alopecurus pratensis	5	<u>No</u>	FACW	Tree Mondy plants evaluating vince 2 in (7.6 cm) or
6. Symphyotrichum dumosum	5	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				One Provide the Manufacture and offered as a large
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				than o in. BBit and greater than or equal to 0.20 it (1
10.				m) tall.
10		<del></del>		
10 11	0.5	- Total Cover		Herb – All herbaceous (non-woody) plants, regardless
11	85 =	= Total Cover	17	
11	85 =	= Total Cover total cover:		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
11	85 = 20% of	total cover:		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	85 <u>=</u> 20% of 1	total cover:		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
11	85 <u>=</u> 20% of 1	total cover:		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
11	85 <u>=</u> 20% of 1	total cover:		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
11	85 <sub>=</sub> 20% of	total cover:		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.
11	85 <sub>=</sub> 20% of	total cover:		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
11	85 <sub>=</sub> 20% of	total cover:	17	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
11	85 = 20% of the second	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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
11	85 = 20% of 1	total cover:	17	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

Sampling Point: wlea080e\_w

SOIL

(in ab aa)	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR 4/1	90	7.5YR 4/6	10	C	M	SICL	
6-14	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
		-						-
	-	-						-
	-							
	-	-						•
	-	-						-
	_							
		-					-	
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	I=Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		•						ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147.	· · · · · · · · · · · · · · · · · · ·	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				·-, <u> </u>	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, <b>.</b> ,	ŗ	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		-,		— '	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark		6)		\	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da	,	,			Other (Explain in Remarks)
	ark Surface (A12)	- (* * * * * * )	Redox Depre		. ,		_ `	( <del>-</del>
	лиску Mineral (S1) <b>(I</b>	RR N	Iron-Mangan			RR N		
	A 147, 148)		MLRA 13		,5 (i i²) <b>(i</b>	-1111 14,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	3 122\	3Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
-	Matrix (S6)		Red Parent I					nless disturbed or problematic.
	Layer (if observed):		Ned Falenti	viateriai (i z	ET) (IVILIX	1 121, 141	, ui	liess disturbed of problematic.
Type: sil	ty clay							
Depth (in	ches): <u></u>						Hydric Soi	I Present? Yes No
Remarks:								



Photo 1
Wetland data point WLEA080e\_w facing west



Photo 2
Wetland data point WLEA080e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis County		Sampling Date: 11/16/2015		
Applicant/Owner: Dominion			State: WV	Sampling Point: wlea080_u			
			on, Township, Range: No				
Landform (hillslope, terrace, etc.): slope							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Monongahela silt loam,	3 to 8 percent slo	pes		NWI classifi	cation: None		
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydro							
Are Vegetation, Soil, or Hydro							
SUMMARY OF FINDINGS – Attack							
	-				· ·		
	es No_ es No_		Is the Sampled Area		.,		
	es No es No		within a Wetland?	Yes	No		
Remarks:	C3 140						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is requi	ired; check all that	apply)		Surface Soil			
Surface Water (A1)		quatic Plants (		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		en Sulfide Od		Drainage Patterns (B10)			
Saturation (A3)	-			Moss Trim L			
Water Marks (B1)	Presen	ce of Reduced	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent	Iron Reductio	n in Tilled Soils (C6)				
Drift Deposits (B3)		uck Surface (C		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (I	Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)		
Iron Deposits (B5)				Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B	57)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)					aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutra	I Test (D5)		
Field Observations:		<i>(</i> '					
	No Depth						
	No Depth						
Saturation Present? Yes (includes capillary fringe)	No Depth	(inches):	Wetland H	lydrology Prese	nt? Yes No		
Describe Recorded Data (stream gauge, mo	onitoring well, aeri	ial photos, pre	vious inspections), if ava	ilable:			
Remarks: no hydrology indicators present							
no nydrology indicators present							

Sampling	Point: wlea080_	u
Samonno	P()	-~

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:0 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  1 (B)
4		<u> </u>		eposico / torocc / tili etrata.
		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		
	20% of	total cover:	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species15
				FACU species80 x 4 =320
2				UPL species
3		<del></del>		05 365
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.84
6				1 Tevalence index = B/T(=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cover		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)
1 Schedonorus arundinaceus	60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Trifolium repens	10	No	FACU	
3. Symphyotrichum dumosum	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Taraxacum officinale	5	No No	FACU	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
5. Cichorium intybus		No	FACU	Tree Meady plants avaluation visco 2 in (7 C are) an
6. Xanthium strumarium	5	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7		, <u></u> , <u></u>		height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
···				m) tall.
10		<del></del>		my can:
11	95	<del></del>		Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>47.5</u>	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				Hydrophytic
5				Vegetation
	0 _	= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s				
Tremarks. (include prioto fidilibers fiele of off a separate s	ilicet.)			
				I

Sampling Point: wlea080\_u

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absen	ce of indica	tors.)	
Depth	Matrix		Redo	x Features	3					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	S
0-4	7.5YR 3/3	100					SCL			
4-12	7.5YR 4/3	100					SCL			
12-18	7.5YR 4/4	100					SCL			
					-					
		<del></del>		·				_		
		· ———			-	-				_
	-	<del></del>								
·		· —— -								
	oncentration, D=Dep	letion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.			ning, M=Matrix	
Hydric Soil	Indicators:						Ind	icators for F	Problematic H	Hydric Soils <sup>3</sup> :
Histosol			Dark Surface				_		(A10) <b>(MLRA</b>	•
	pipedon (A2)		Polyvalue Be				148)		ie Redox (A16	5)
Black Hi			Thin Dark Su			47, 148)		(MLRA 1		(540)
	n Sulfide (A4)		Loamy Gleye		F2)				loodplain Soil	s (F19)
	d Layers (A5) ick (A10) <b>(LRR N)</b>		Depleted Mar		.e)			(MLRA 1	<b>36, 147)</b> w Dark Surfac	oo (TE12)
	d Below Dark Surfac	e (A11)	Depleted Dar				_	•	ain in Remark	, ,
	ark Surface (A12)	· (/ /	Redox Depre					0 (= x.p.		,
	lucky Mineral (S1) <b>(L</b>	_RR N,	Iron-Mangan			LRR N,				
	A 147, 148)		MLRA 13							
	Gleyed Matrix (S4)		Umbric Surfa						hydrophytic ve	-
	tedox (S5)		Piedmont Flo					-	ology must be	-
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless distur	bed or proble	matic.
	_ayer (if observed):									
Type:			<u> </u>							.,
Depth (inc	ches):		<del>_</del>				Hydric S	oil Present?	Yes	No
Remarks:										



Photo 1 Upland data point WLEA080\_u facing west



Photo 2 Upland data point WLEA080\_u facing north

Project/Site: Atlantic Coast Pip	eline	City/C	County: Lewis County		Sampling Date: 11/16/2015
Applicant/Owner: Dominion			,		Sampling Point: wlea083e_w
• •		Section	on, Township, Range: No		
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Mononga	hela silt loam, 3 to 8 per	rcent slopes	Long	NIMI classific	none None
Are climatic / hydrologic conditi					
·		-			
Are Vegetation, Soil		-			
Are Vegetation, Soil					
SUMMARY OF FINDING	3S – Attach site m	ap showing sam	npling point locatio	ons, transects	s, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes 🔽	No	le the Commissi Area		
Hydric Soil Present?	Yes	No	Is the Sampled Area within a Wetland?	Yes V	No
Wetland Hydrology Present?		No	Within a Wetland	103	
Remarks:					
Saturated PEM wetland locate polygons collected, connected			everely trampled and wou	uld likely be a stre	am if cattle not present; two
polygons conceted, connected	via cuivert urider existii	ig iaim road.			
HYDROLOGY					
Wetland Hydrology Indicato	ve:			Socondary Indica	ators (minimum of two required)
Primary Indicators (minimum		k all that apply)		Surface Soil	·
✓ Surface Water (A1)	•	True Aquatic Plants (	(R14)	· · · · · · · · · · · · · · · · · · ·	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		<u>✓</u> Drainage Pa	=
Saturation (A3)			res on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	, ,
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren			itressed Plants (D1)
Iron Deposits (B5)		(=-q	,	✓ Geomorphic	` '
Inundation Visible on Aer	ial Imagery (B7)			Shallow Aqu	` '
Water-Stained Leaves (B					aphic Relief (D4)
Aquatic Fauna (B13)	-,			✓ FAC-Neutral	. ,
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):	1		
Water Table Present?	Yes No	Depth (inches):			
Saturation Present?	Yes No	Depth (inches):	0 Wetland H	lydrology Preser	nt? Yes <u>'</u> No
(includes capillary fringe)  Describe Recorded Data (stre	am gauge, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ilable:	
,					
Remarks:					

Sampling	Point: wlea083e_	W
Sambling	Point: wicassoc_	٧٠.

00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				Operico Acroso Air etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		Total % Cover of: Multiply by:  OBL species 25 x 1 = 25
	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species15
		<del></del>		FACU species 20 x 4 = 80
2		<del></del>		UPL species
3				85 200
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.35
6			_	Trevalence mack = B/Tt =
			-	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	0	= Total Cover		4 - Morphological 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 Carex Iurida	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juncus effusus	20	Yes	FACW	
3. Schedonorus arundinaceus	20	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10	No	FAC	be present, unless disturbed or problematic.
4. Xanthium strumarium		<del></del>		Definitions of Four Vegetation Strata:
5. Alopecurus pratensis	5	No	FACW	The Mandagle of such dispersion 0 is (7.0 sec) of
6. Symphyotrichum dumosum	5	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				, and the second
				Sapling/Shrub – Woody plants, excluding vines, less
··		<del></del>		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
	85	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5	200/ of	total cover:	17	Was best a Allows by the constant to a CO 6 to
	20% 01	total oover.		
Woody Vine Stratum (Plot size: 30 )	20% 01	total 00 vol		Woody vine – All woody vines greater than 3.28 ft in
	2070 01			height.
1				, ,
1				, ,
1				, ,
1				height.
1				height.  Hydrophytic
1				height.  Hydrophytic Vegetation
1		Total Cover	. 0	height.  Hydrophytic Vegetation
1	0			height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation
1	0	Total Cover		height.  Hydrophytic Vegetation

Sampling Point: wlea083e\_w

SOIL

Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR 4/1	90	7.5YR 4/6	10	C	M	SICL	
6-14	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
								-
	-							-
	-							
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		-	·					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be	. ,	e (S8) <b>(M</b>	LRA 147.		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, -,	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dai	,	,			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre		. ,			,
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan			RR N,		
	A 147, 148)	·	MLRA 13		· , •	·		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					nless disturbed or problematic.
Restrictive	Layer (if observed):							•
Type: silt	ty clay							
Depth (in							Hydric Soi	l Present? Yes V No No
	ones).						Tiyane oo	111636Ht: 163 140
Remarks:								



Photo 1
Wetland data point WLEA083e\_w facing northwest



Photo 2
Wetland data point WLEA083e\_w facing southwest

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Lewis County		Sampling Date: 11/16/2015	
Applicant/Owner: Dominion			,	State: WV	_ Sampling Point: wlea083_u	
			n, Township, Range: No			
Landform (hillslope, terrace, etc.): slope					Slope (%):4	
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Monongahela silt lo	am, 3 to 8 perce	nt slopes		NWI classifica	ation: None	
Are climatic / hydrologic conditions on the						
Are Vegetation, Soil, or H						
Are Vegetation, Soil, or H						
SUMMARY OF FINDINGS – Att						
Comment of Findings Au	aon site map		pinig point locatio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	important reatares, etc.	
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area			
Hydric Soil Present?	Yes		within a Wetland?	Yes	No	
Wetland Hydrology Present?  Remarks:	Yes	No				
HADBOLOGA						
HYDROLOGY Watland Hydrology Indicators				Coondon/Indicat	ore (minimum of two required)	
Wetland Hydrology Indicators:		II that annly			ors (minimum of two required)	
Primary Indicators (minimum of one is r	-	ıı tnat appıy) ue Aquatic Plants (E		Surface Soil C		
Surface Water (A1)			<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
High Water Table (A2) Saturation (A3)		drogen Sulfide Odd	es on Living Roots (C3)	Moss Trim Lin		
Water Marks (B1)		esence of Reduced	-		Vater Table (C2)	
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burro		
Drift Deposits (B3)		in Muck Surface (C			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		her (Explain in Rem			ressed Plants (D1)	
Iron Deposits (B5)				Geomorphic F	Position (D2)	
Inundation Visible on Aerial Imager	y (B7)			Shallow Aquit	ard (D3)	
Water-Stained Leaves (B9)				Microtopograp	phic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral 7	Test (D5)	
Field Observations:						
		epth (inches):				
		epth (inches):				
Saturation Present? Yes (includes capillary fringe)	No D	epth (inches):	Wetland H	lydrology Present	? Yes No	
Describe Recorded Data (stream gauge	, monitoring well	, aerial photos, prev	vious inspections), if avai	ilable:		
Damada						
Remarks:  no hydrology indicators present						
The Hydrology indicators present						

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

\_\_\_\_)

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

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

50% of total cover: 47.5 20% of total cover: 19

50% of total cover: 0 20% of total cover: 0

30

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_ 1. Schedonorus arundinaceus

4. Taraxacum officinale

Cichorium intybus

6. Xanthium strumarium

3. Symphyotrichum dumosum

2. Trifolium repens

nes of	plants.		Sampling Point: wlea083_u						
bsolute	Dominant I		Dominance Test	worksheet	::				
% Cover	Species?	Status	Number of Domina That Are OBL, FA				0	(A)	
			Total Number of D Species Across Al		_		1	(B)	
			Percent of Domina That Are OBL, FA				0	(A/B	
			Prevalence Index	workshee	et:				
0			Total % Cover			Mult	tiply by:		
	= Total Cove	er O	OBL species	0	x 1		0		
_ 20% of	total cover:_		FACW species	0	x 2		0	_	
			FAC species	15	x 3		45	_	
			FACU species	80	x 4		320	_	
			UPL species	0			0	_	
				95	x 5	= _	365	(D)	
			Column Totals:		(A)	_		(B)	
			Prevalence I	ndex = B/	۸ = _		3.84	_	
			Hydrophytic Vege	etation Inc	licato	rs:			
			1 - Rapid Test	t for Hydro	ohytic	Veg	getation		
			2 - Dominance Test is >50%						
0			3 - Prevalence	e Index is ≤	3.0 <sup>1</sup>				
	= Total Cove total cover:	0	4 - Morpholog	ical Adapta	ations	¹ (Pı	rovide sup	portin	
20 /0 01	total cover		data in Rer	marks or o	n a se	para	ate sheet)	)	
60	Yes	FACU	Problematic H	lydrophytic	Vege	etatio	on¹ (Expla	ain)	
10	No	FACU							
10	No	FAC	<sup>1</sup> Indicators of hydri					must	
5	No	FACU	be present, unless						
5	No	FACU	Definitions of For	ur Vegetat	ion S	trata	a:		
5	No	FAC	Tree – Woody plan more in diameter a height.						
			Sapling/Shrub – N than 3 in. DBH and m) tall.						
	= Total Cove		Herb – All herbace of size, and woody					ardless	
_ 20% of	total cover:_	19	Woody vine – All height.	woody vine	es gre	ater	than 3.28	8 ft in	
	= Total Covertotal cover:	er 0	Hydrophytic Vegetation Present?	Yes		No			

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

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

Sampling Point: wlea083\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the absen	ice of indicators.)
Depth	Matrix		Redo	x Features	S1	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
0-4	7.5YR 3/3	100						
4-12	7.5YR 4/3	100					SCL	
12-18	7.5YR 4/4	100					SCL	
	-			-				_
	<u> </u>							
	· -							
	<u> </u>							
	Concentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Inc	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) (LRR N)		Depleted Material Redox Dark S		·c)			(MLRA 136, 147)
	ed Below Dark Surfa	ca (Δ11)	Redox Dark s					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Park Surface (A12)	CC (A11)	Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1)	(LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)	,	MLRA 13		( )(	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l <b>8</b> )	wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed)	):						
Type:								
Depth (ir	nches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1
Upland data point WLEA083\_u facing southwest



Photo 2
Upland data point WLEA083\_u facing northwest

Project/Site: Atlantic Coast Pipe	line	City/C	County: Lewis County		Sampling Date: 11/16/2015		
Applicant/Owner: Dominion				State: WV	_ Sampling Point: wlea082e_w		
		Section					
Landform (hillslope, terrace, etc.					Slope (%):3		
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Vandalia s	ilt loam, 8 to 15 per	cent slopes		NWI classifica	ation: None		
Are climatic / hydrologic conditio	ns on the site typic	al for this time of year? Y	res No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil		•					
Are Vegetation, Soil							
					important features, etc.		
			7 37				
Hydrophytic Vegetation Preser		No No	Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?		/ No	within a Wetland?	Yes	_ No		
Remarks:	163	110					
polygons collected, connected	via darvert ander ex	ioung idim rodd.					
HYDROLOGY							
Wetland Hydrology Indicator					ors (minimum of two required)		
Primary Indicators (minimum o	•			Surface Soil (			
Surface Water (A1)		True Aquatic Plants (			etated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Patt			
Saturation (A3) Water Marks (B1)		<ul><li>Oxidized Rhizosphero</li><li>Presence of Reduced</li></ul>	-	Moss Trim Lir	Vater Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burro			
Drift Deposits (B3)	-	Thin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	-	Other (Explain in Rer			ressed Plants (D1)		
Iron Deposits (B5)	_		,	Geomorphic F			
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquit	ard (D3)		
Water-Stained Leaves (B9	))			Microtopographic Relief (D4)			
Aquatic Fauna (B13)				✓ FAC-Neutral <sup>-</sup>	Test (D5)		
Field Observations:	,						
Surface Water Present?		Depth (inches):	1				
Water Table Present?		Depth (inches):	^		_		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland H	lydrology Present	? Yes / No		
Describe Recorded Data (stream	am gauge, monitorir	ng well, aerial photos, pre	vious inspections), if ava	nilable:			
·							
Remarks:							

Sampling Point: wieauoze_w	Sampling	Point: wlea082e_	W
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00	Absolute	Dominant In	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  66.6666666 (A/B)
6				That Ald OBE, I AOW, OI I AO.
7.				Prevalence Index worksheet:
·· <del></del>	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species25 x 1 =25
Sapling/Shrub Stratum (Plot size: 15 )	2070 01			FACW species 25 x 2 = 50
				FAC species15
1	-			FACU species 20 x 4 = 80
2				UPL species0 x 5 =0
3				Column Totals: 85 (A) 200 (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =2.35
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 2 - Dominance rest is >50%  ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cover	_	
50% of total cover: 0		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Carex lurida	25	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Schedonorus arundinaceus	20	Yes	FACU	
3. Juncus effusus	20	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Xanthium strumarium	10	No	FAC	be present, unless disturbed or problematic.
5. Symphyotrichum dumosum	5	No	FAC	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Alopecurus pratensis	5	<u>No</u>	FACW	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
	85	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5		total cover:	17	
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
· · · · · · · · · · · · · · · · · · ·				noight.
T.				
1				
2				
2				
2				Hydrophytic
2				Vegetation
2		Total Cover		1 7 7 7
2			0	Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation
2	0	Total Cover		Vegetation

Sampling Point: wlea082e\_w

SOIL

Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR 4/1	90	7.5YR 4/6	10	C	M	CL	
6-14	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
	-							-
	-							•
		. ——						
	-							•
Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
lydric Soil		,	,					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be	. ,	e (S8) <b>(M</b>	I RΔ 147		Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				140) (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			+1, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		2)			(MLRA 136, 147)
	• • •		Redox Dark		C)		,	· · · · · · · · · · · · · · · · · · ·
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	o (A11)	Redox Dark	,	,			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
		# (A11)			. ,		_ `	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N		
	Mucky Mineral (S1) (L	.KK N,	Iron-Mangan		es (F12) (I	-RR N,		
	A 147, 148)		MLRA 13	•			3,	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	21) <b>(MLR</b>	<b>4</b> 127, 147	) ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: silf								
Depth (in	ches): <u>6</u>						Hydric Soi	l Present? Yes No
Remarks:							l	



Photo 1
Wetland data point WLEA082e\_w facing southwest



**Photo 2**Wetland data point WLEA082e\_w facing northwest

Project/Site: Atlantic Coast Pipeline		City/Cou		Sampling Date: 11/16/2015		
Applicant/Owner: Dominion				_ Sampling Point: wlea082_u		
Investigator(s): GB, DQ						
Landform (hillslope, terrace, etc.): slo					Slope (%): 5	
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Vandalia silt loa	m, 8 to 15 percent slope:	S		NWI classifica	tion: None	
Are climatic / hydrologic conditions on						
Are Vegetation, Soil, c						
Are Vegetation, Soil, Coll, Coll						
SUMMARY OF FINDINGS –						
			9 po			
Hydrophytic Vegetation Present?	Yes No_		s the Sampled Area		,	
Hydric Soil Present? Wetland Hydrology Present?	Yes No_ Yes No_		vithin a Wetland?	Yes	No	
Remarks:	res No_					
HADBOLOGA						
HYDROLOGY				Canandam, Indiant		
Wetland Hydrology Indicators:	in required, about all the	t annly)			ors (minimum of two required)	
Primary Indicators (minimum of one	•			Surface Soil C		
Surface Water (A1) High Water Table (A2)	True A		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
Saturation (A3)		gen Sulfide Odor ( ed Rhizospheres	on Living Roots (C3)	Moss Trim Lin		
Water Marks (B1)		nce of Reduced In	-		/ater Table (C2)	
Sediment Deposits (B2)			n Tilled Soils (C6)	Crayfish Burro		
Drift Deposits (B3)		uck Surface (C7)			ible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (	(Explain in Rema	rks)	Stunted or Str	essed Plants (D1)	
Iron Deposits (B5)				Geomorphic P		
Inundation Visible on Aerial Ima	.gery (B7)			Shallow Aquita		
Water-Stained Leaves (B9)					hic Relief (D4)	
Aquatic Fauna (B13)			<u></u>	FAC-Neutral T	est (D5)	
Field Observations: Surface Water Present? Yes	No 🔽 Depth	(in ab aa):				
	No _ Depth					
	No _ Depth			vdrology Procent	? Yes No ✔	
(includes capillary fringe)	No <u> </u>	(inches)	Wetiand H	ydrology Present	? fes No	
Describe Recorded Data (stream ga	uge, monitoring well, aer	ial photos, previo	ous inspections), if avai	ilable:		
Remarks:						
no hydrology indicators present						

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

\_\_\_)

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

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

% Cover Species? Status

= Total Cover \_ 20% of total cover:\_\_

0\_\_\_ = Total Cover 20% of total cover: 0

95 = Total Cover

0 = Total Cover

10

10

5

5

50% of total cover: 47.5 20% of total cover: 19

50% of total cover: \_\_\_\_ 20% of total cover: \_\_\_\_

5

30

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_ 1. Schedonorus arundinaceus

Trifolium repens

4. Xanthium strumarium

Cichorium intybus

6. Taraxacum officinale

2. Symphyotrichum dumosum

Sapling/Shrub Stratum (Plot size: 15

nts.		S	Sampling	Point:	vlea082_u				
minant Indecies? S	dicator Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  0							
		Total Number of E Species Across A			1	(B)			
		Percent of Domin That Are OBL, FA			0	(A/B)			
		Prevalence Index	x workshe	et:					
tal Cavar		Total % Cove	er of:	Μι	ultiply by:				
tal Cover l cover:	0	OBL species	0	x 1 =	0	_			
1 00 VC1		FACW species	0	x 2 =	0				
		FAC species	15	x 3 =	45	_			
		FACU species	80	x 4 =	320	_			
		UPL species	0	x 5 =	0	_			
		Column Totals: _	95	(A)	365	(B)			
		Prevalence	Index = B	/A =	3.84				
		Hydrophytic Veg	etation In	dicators	:				
		1 - Rapid Tes	st for Hydro	ophytic Ve	egetation				
		2 - Dominano	e Test is >	50%					
		3 - Prevalenc	e Index is	≤3.0 <sup>1</sup>					
tal Cover	0	4 - Morpholog			Provide sur	porting			
l cover:	0		-		rate sheet)	-			
		Problematic I		•					
Yes	FACU	i iobiematic i	iyaropriyin	c vegeta	uon (Expid	aii i <i>)</i>			
No	FAC	11			h				
No	FACU	<sup>1</sup> Indicators of hyd be present, unless			, ,,	must			
No	FAC	Definitions of Fo							
No	FACU		ai vegeta	tion one	itu.				
No	FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.							
		Sapling/Shrub – than 3 in. DBH an m) tall.							
tal Cover	10	<b>Herb</b> – All herbac of size, and wood				ardless			
l cover:	19	<b>Woody vine</b> – All height.	woody vin	nes greate	er than 3.2	8 ft in			
tal Cover	0	Hydrophytic Vegetation Present?	Yes	N	o <u> </u>				

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

Sampling Point: wlea082\_u

Depth (inches)         Matrix (inches)         Redox Features         Type¹         Loc²         Texture         Remarks           0-4         7.5YR 3/3         100         SCL         SCL           4-12         7.5YR 4/3         100         SCL         CL           12-18         7.5YR 4/4         100         CL         CL	
0-4     7.5YR 3/3     100     SCL       4-12     7.5YR 4/3     100     SCL	
4-12 7.5YR 4/3 100 SCL	
12-18 7.5YR 4/4 100 CL	
<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 So	ils³:
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) Gedat Final Fredex (715)	
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)	
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)  3Indicators of hydrophytic vegetation and the delay and the de	
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): Hydric Soil Present? Yes No	<u> </u>
Remarks:	



Photo 1
Upland data point WLEA082\_u facing southwest



Photo 2
Upland data point WLEA082\_u facing northwest

Project/Site: Atlantic Coast Pip	peline	City/Co	unty: Lewis County		Sampling Date: 11/16/2015
Applicant/Owner: Dominion			,		Sampling Point: wlea081e_w
Investigator(s): GB, DQ		Section	n. Township, Range: No		
Landform (hillslope, terrace, et					
Subregion (LRR or MLRA): N					
Subregion (LRR of MLRA)	Lat	slones	Long	NA// 1 'C'	None
Soil Map Unit Name: Vandalia					
Are climatic / hydrologic condit		-			
Are Vegetation, Soil	, or Hydrology	significantly disturbe	ed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrology	_ naturally problemati	ic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDING	GS – Attach site ma	ap showing samp	oling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes <u></u> ✓	No			
Hydric Soil Present?	Yes V		Is the Sampled Area	4	
Wetland Hydrology Present?	Yes 🗸	No	within a Wetland?	Yes	No
Remarks:					
Saturated PEM wetland locate under existing farm road, how	ever culvert inlet is buried	tive cattle pasture; sev and wetland extends	rerely trampled and wot across road, one polyg	uld likely be a streation collected.	am if cattle not present; culvert
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required; check	all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)	<u> </u>	rue Aquatic Plants (B	14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor		✓ Drainage Par	· · · ·
Saturation (A3)			s on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced I			Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Recent Iron Reduction Thin Muck Surface (C7		Crayfish Buri	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rema			tressed Plants (D1)
Iron Deposits (B5)	_`	Striot (Explain in Rome	arro,	Geomorphic	` '
Inundation Visible on Aer	rial Imagery (B7)			Shallow Aqui	` '
Water-Stained Leaves (E				Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	Yes No	Depth (inches): 2			
Water Table Present?	Yes No	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches): 0	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stre	eam gauge, monitoring we	ell, aerial photos, previ	ious inspections), if ava	ilable:	
Remarks:					

Sampling	Point: wlea081e_	W

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Species Across Air Strata. (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove	_	Total % Cover of: Multiply by:  ORL species 25 x 1 = 25
50% of total cover:0	20% of	total cover:	0	31 x 1 =
Sapling/Shrub Stratum (Plot size: 15 )				FACW species x 2 =
1				FAC species 18 x 3 = 54
2				FACU species15
3.				UPL species0 x 5 =0
				Column Totals:89 (A)(B)
4				( ,
5				Prevalence Index = B/A =2.25
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	er	
50% of total cover: 0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )		_		data in Remarks or on a separate sheet)
1 Juncus effusus	25	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lurida	25	Yes	OBL	
3. Schedonorus arundinaceus	15	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Zanthium strumarium	8	No	FAC	be present, unless disturbed or problematic.
"	6			Definitions of Four Vegetation Strata:
5. Alopecurus pratensis		No No	FACW	Tree Woody plants evaluding vines 2 in (7.6 cm) or
6. Setaria pumila	5	No	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Symphyotrichum dumosum	5	No	FAC	height.
8				One line of Ohmoha Manada and a sandadi ana isana lang
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	89	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 44.5		total cover:_		or size, and woody plants less than 3.20 it tall.
00	20 /6 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	er	Present? Yes No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate sl				
Tromano. (morado prioto namboro noro di em a coparato di	1001)			

Sampling Point: wlea081e\_w

Depth	<u>Matrix</u>			ox Features		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture SICL	Remarks
0-6	7.5YR 4/1	90	7.5YR 4/6	10		M	SICL	
6-14	7.5YR 4/1	75	7.5YR 4/6	25	C	M	SIC	· ·
								-
	-							
								-
	-							
vne: C=C	Concentration, D=Dep	oletion RM	-Reduced Matrix M	S-Masked	Sand Gra	nins	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
	Indicators:	orction, reiv	=rcaacca Matrix, M	0-Masked	Odrid Ore		Indic	eators for Problematic Hydric Soils <sup>3</sup> :
_ Histoso			Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		e (S8) <b>(N</b>	ILRA 147.		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark S					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley	, ,	•	, -,	F	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		✓ Depleted Ma	,	,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)		\	/ery Shallow Dark Surface (TF12)
_ Deplete	ed Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)		(	Other (Explain in Remarks)
_ Thick D	ark Surface (A12)		Redox Depr					
_ Sandy l	Mucky Mineral (S1) (I	LRR N,	Iron-Mangar	nese Masse	es (F12) (I	_RR N,		
MLR	A 147, 148)		MLRA 13	36)				
	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Sandy l	Redox (S5)		Piedmont Fl	oodplain So	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,
	d Matrix (S6)		Red Parent	Material (F2	21) <b>(MLR</b> .	A 127, 147	) un	nless disturbed or problematic.
estrictive	Layer (if observed)	:						
Type: si								
Depth (ir	nches): <u>6</u>						Hydric Soi	l Present? Yes No
emarks:							I	



Photo 1
Wetland data point WLEA081e\_w facing southwest



**Photo 2**Wetland data point WLEA081e\_w facing southeast

Project/Site: Atlantic Coast Pipeline		City/Ce	ounty: Lewis County		Sampling Date: 11/16/2015			
Applicant/Owner: Dominion			-		Sampling Point: wlea081_u			
		Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): slope					Slope (%): <u>6</u>			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt loam,	8 to 15 percent sl	opes		NWI classifica	tion: None			
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or H								
Are Vegetation, Soil, or H								
SUMMARY OF FINDINGS – At								
			pmig point locatio	,	mportant routeroo, otor			
Hydrophytic Vegetation Present?	Yes 1		Is the Sampled Area		_			
Hydric Soil Present?	Yes 1		within a Wetland?	Yes	_ No			
Wetland Hydrology Present?  Remarks:	Yes 1	40 <u> </u>						
LIVEROLOGY								
HYDROLOGY				Casandan Indiaat	ara (minimum of tuo roquirod)			
Wetland Hydrology Indicators:	roquirodi obook oll	I that annly			ors (minimum of two required)			
Primary Indicators (minimum of one is r	-			Surface Soil Cracks (B6)				
Surface Water (A1)		ıe Aquatic Plants (E drogen Sulfide Odo		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>				
High Water Table (A2) Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Lin				
Water Marks (B1)		esence of Reduced	= : : :		/ater Table (C2)			
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burro				
Drift Deposits (B3)		in Muck Surface (C		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		ner (Explain in Rem			essed Plants (D1)			
Iron Deposits (B5)				Geomorphic F	Position (D2)			
Inundation Visible on Aerial Imager	y (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral T	Test (D5)			
Field Observations:								
		epth (inches):						
		epth (inches):			,			
Saturation Present? Yes (includes capillary fringe)	No De	epth (inches):	Wetland H	lydrology Present	? Yes No			
Describe Recorded Data (stream gauge	e, monitoring well,	aerial photos, prev	vious inspections), if ava	ilable:				
- Parameter								
Remarks:  no hydrology indicators present								
The frydrology indicators present								

Sampling	Point: wlea081_u

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:0 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  1 (B)
4				eposico / torocc / tili etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		
	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species18
				FACU species 77 x 4 = 308
2		-		UPL species
3		<del></del>		05 362
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.81
6				1 Tevalence index = B/T(=
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1 Schedonorus arundinaceus	50	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Trifolium repens	12	No	FACU	
3. Symphyotrichum dumosum	10	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Datura wrightii	5	No	FACU	Definitions of Four Vegetation Strata:
5. Xanthium strumarium	5	No	FAC	
6. Cichorium intybus	5	No	FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Taraxacum officinale	5	No	FACU	height.
8. Setaria pumila	3	No	FAC	
2				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				iii) taii.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>47.5</u>	20% of	total cover:	19	Was designed All considerations are also there 0.00 ft is
Woody Vine Stratum (Plot size:)				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				neight.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cover		Present? Yes No
50% of total cover:		total cover:	0	
30 % of total cover:		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea081\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the absen	ice of indicators.)
Depth	Matrix		Redo	x Features	S1	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	Remarks
0-4	7.5YR 3/3	100						
4-12	7.5YR 4/3	100					SCL	
12-18	7.5YR 4/4	100					SCL	
	-			-				_
	<u> </u>							
	· -							
	<u> </u>							
	Concentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Inc	dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) (LRR N)		Depleted Material Redox Dark S		·c)			(MLRA 136, 147)
	ed Below Dark Surfa	ca (Δ11)	Redox Dark s					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Park Surface (A12)	CC (A11)	Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1)	(LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)	,	MLRA 13		( )(	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	3	Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	l <b>8</b> )	wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed)	):						
Type:								
Depth (ir	nches):						Hydric S	Soil Present? Yes No
Remarks:								



Photo 1
Upland data point WLEA081\_u facing northwest



Photo 2 Upland data point WLEA081\_u facing northeast

Project/Site: Atlantic Coast Pipeline	<b>e</b>	City/C		Sampling Date: 11/16/2015				
Applicant/Owner: Dominion				State: WV	Sampling Point: wlea084e_w			
Investigator(s): GB, DQ Section, Township, Range: No PLSS in this area								
Landform (hillslope, terrace, etc.):								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt I	oam, 8 to 15 percer	nt slopes		NWI classifi	cation: None			
Are climatic / hydrologic conditions	on the site typical f	or this time of year? Y	′es No	(If no, explain in I	Remarks.)			
Are Vegetation, Soil	_, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes V No No			
Are Vegetation, Soil								
SUMMARY OF FINDINGS								
Hydrophytic Vegetation Present?	Yes 🗸	No						
Hydric Soil Present?		No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?		No	within a Wetland?	res	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of o	ne is required; chec	k all that apply)		Surface Soi	l Cracks (B6)			
Surface Water (A1)	_	True Aquatic Plants (	B14)	Sparsely Ve	egetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	atterns (B10)			
Saturation (A3)			• , ,	Moss Trim I	, ,			
Water Marks (B1)		Presence of Reduced			Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu				
Drift Deposits (B3)	_	Thin Muck Surface (C			/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rer	narks)		Stressed Plants (D1)			
Inundation Visible on Aerial I	magery (B7)			<ul><li>Geomorphic Position (D2)</li><li>Shallow Aquitard (D3)</li></ul>				
Water-Stained Leaves (B9)	nagery (B1)			Shallow Aquitate (D3) Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:					, ,			
	es 🗸 No	Depth (inches):	1					
		Depth (inches):						
	es V No		0 Wetland I	lydrology Prese	nt? Yes ✔ No			
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ailable:				
Remarks:								
Nomano.								

Sampling	Point: wlea084e_	_W
Sambiinu	Point. modes is	

, ,	Absolute	Dominant Ir	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 Salix nigra	10	Yes	OBL	Number of Dominant Species That Are OBL FACW or FAC:  3 (A)
·· <del>·</del>		<del></del>		That Are OBL, FACW, or FAC:3 (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: 100 (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	10		<del></del> -	Total % Cover of: Multiply by:
_		= Total Cover		47 47
50% of total cover:5	20% of	total cover:	2	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species15
				FACU species15 x 4 =60
2				UPL species 0 x 5 = 0
3				104 206
4				Column Totals: (A) 200 (B)
5				Prevalence Index = B/A = 1.98
6				Trevalence index = B/TC =
_				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cover		l —
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5		·		data in Remarks or on a separate sheet)
1. Carex lurida	30	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juncus effusus	20	Yes	FACW	
3. Schedonorus arundinaceus	15	No	FACU	¹Indicators of hydric soil and wetland hydrology must
4 Xanthium strumarium	10	No	FAC	be present, unless disturbed or problematic.
5. Carex scabrata	7	No	OBL	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Alopecurus pratensis	7	No	FACW	more in diameter at breast height (DBH), regardless of
7. Symphyotrichum dumosum	5	No	FAC	height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.			,	m) tall.
		<del></del> .		,
11	94			Herb – All herbaceous (non-woody) plants, regardless
47		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47	20% of	total cover:	18.8	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2.				
4				Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			
	,			

Sampling Point: wlea084e\_w

Depth	Matrix	0/		ox Features		. 2	<b>-</b> .	<b>5</b>
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-5	7.5YR 4/1	90	7.5YR 4/6	10		M	CL	
5-15	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
	-	-	-					
			-					-
	-	- ——	-					· -
	-				-			
		. <del></del>						
ype: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
	Indicators:	•	,				Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Dark Surface	e (S7)			2	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue B		e (S8) <b>(N</b>	ILRA 147,		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark S					(MLRA 147, 148)
_ Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix (F	<sup>-</sup> 2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma	atrix (F3)				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	•	•			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da		. ,		(	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depr			DD 11		
	Mucky Mineral (S1) (L	LRR N,	Iron-Mangar		es (F12) <b>(</b> I	LRK N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 13	•	MI D A 12	6 122)	3 <sub>10</sub> c	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont FI					etland hydrology must be present,
	d Matrix (S6)		Red Parent					nless disturbed or problematic.
	Layer (if observed):				<b>(</b>	,	,	noce dictalized of presidentalier
Type: sil	ty clay `							
Depth (in	ches). 5						Hydric Soi	I Present? Yes ✓ No
							Trydric ooi	111636Ht: 163 HO
emarks:								



Photo 1
Wetland data point WLEA084e\_w facing north



Photo 2
Wetland data point WLEA084e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis County		Sampling Date: 11/16/2015			
Applicant/Owner: Dominion					Sampling Point: wlea084_u			
		Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): slop					Slope (%): 5			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Monongahela sili	t loam, 3 to 8 perce	ent slopes		NWI classifica	tion: None			
Are climatic / hydrologic conditions on								
Are Vegetation, Soil, or								
Are Vegetation, Soil, oil								
SUMMARY OF FINDINGS – A								
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area		,			
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes		within a Wetland?	Yes	_ No			
Remarks:	163	140						
HADBOLOCA								
HYDROLOGY				Casandan Indiaat	ara (minimum of tuo required)			
Wetland Hydrology Indicators:	a required; abook (	all that apply)			ors (minimum of two required)			
Primary Indicators (minimum of one is Surface Water (A1)	-			Surface Soil C	etated Concave Surface (B8)			
High Water Table (A2)		rue Aquatic Plants (l lydrogen Sulfide Odo		Drainage Patt				
Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Lin				
Water Marks (B1)		resence of Reduced	=		/ater Table (C2)			
Sediment Deposits (B2)			n in Tilled Soils (C6)					
Drift Deposits (B3)	т	hin Muck Surface (C	27)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	0	other (Explain in Ren	narks)	Stunted or Str	essed Plants (D1)			
Iron Deposits (B5)				Geomorphic F				
Inundation Visible on Aerial Imag	jery (B7)			Shallow Aquita	ard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)			1	FAC-Neutral 1	Test (D5)			
Field Observations:	🗸 .							
		Depth (inches):						
		Depth (inches):						
Saturation Present? Yes _ (includes capillary fringe)	No L	Depth (inches):	Wetland H	lydrology Present	? Yes No			
Describe Recorded Data (stream gau	ige, monitoring we	ll, aerial photos, pre	vious inspections), if avai	ilable:				
Remarks:								
no hydrology indicators present								

Sampling	Point: wlea084_	u
Samonia	FOILL	

00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?		Number of Dominant Species
1. Acer negundo		Yes	FAC	That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Operics / toross / till othata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cover		
50% of total cover: 2.5	20% of	total cover:	1	OBL species X 1 =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Rosa multiflora	3	Yes	FACU	FAC species 20 x 3 = 60
2.	-			FACU species78 x 4 =312
		·		UPL species0 x 5 =0
3		-		Column Totals: 98 (A) 372 (B)
4		-		Column rotals (A) (B)
5				Prevalence Index = B/A =3.79
6		-		Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	3	<del></del>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover 1.5		= Total Cover	0.6	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
5070 01 total 00001.	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Schedonorus arundinaceus	50	Yes	FACU	1 Toblematic Trydrophytic Vegetation (Explain)
2. Symphyotrichum dumosum	10	No	FAC	1
3. Trifolium repens	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Phytolacca americana	5	No	FACU	
5 Xanthium strumarium	5	No	FAC	Definitions of Four Vegetation Strata:
6. Cichorium intybus	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
o	5			more in diameter at breast height (DBH), regardless of
7. Taraxacum officinale		No	FACU	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.				
	90	Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		= Total Cover total cover:	18	or size, and woody plants less than 5.20 it tall.
00/001 total 00/01:	20% 01	total cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0	T-1-1 0		Vegetation Present? Yes No
50% of total cover: 0		= Total Cover	0	· · · · · · · · · · · · · · · · · · ·
30 % of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea084\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the abse	nce of indicators.)
Depth	Matrix		Redo	x Features	S	. 2	_	
(inches) 0-4	Color (moist) 7.5YR 3/3	<u>%</u> 100	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SCL	e Remarks
0-4	7.51K 3/3							<u> </u>
4-12	7.5YR 4/3	100					SCL	<u> </u>
12-18	7.5YR 4/4	100					CL	
								<del>_</del>
								·
l <del>-</del> 0.0							21	
	Concentration, D=Deplements:	pletion, RM=	Reduced Matrix, MS	s=Masked	Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.  Idicators for Problematic Hydric Soils <sup>3</sup> :
•			5 10 (	(07)			ın	· ·
Histoso			Dark Surface		(00) (1		440)	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	_ Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		<b>୮</b> ∠)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mar		·c\			(MLRA 136, 147)
	uck (A10) (LRR N)	00 (111)	Redox Dark S				_	_ Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac Park Surface (A12)	ce (ATT)	Depleted Dar Redox Depre				_	_ Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(</b>	I DD N	Iron-Mangan			I DD N		
	A 147, 148)	LKK N,	MLRA 13		55 (F12) <b>(</b>	LINI IN,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MI DA 13	6 122\		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed)	١-	Neu i alentin	nateriai (i	21) (WILK	A 121, 141	1	unless disturbed of problematic.
	Layer (II observed)	,.						
Type:			<u></u>					
	nches):						Hydric	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point WLEA084\_u facing north



Photo 2 Upland data point WLEA084\_u facing west

Project/Site: Atlantic Coast Pipelin	пе	City/C	county: Lewis County		Sampling Date: 11/16/2015				
Applicant/Owner: Dominion			Sampling Point: wlea085e_w						
Investigator(s): GB, DQ		Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.):					Slope (%):4				
Subregion (LRR or MLRA): N									
Soil Map Unit Name: Senecaville	silt loam		NWI classifi	cation: None					
Are climatic / hydrologic conditions	s on the site typical	for this time of year? Y	res No	(If no, explain in F	Remarks.)				
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Norma	I Circumstances"	present? Yes V No				
Are Vegetation, Soil									
					s, important features, etc.				
Hydrophytic Vegetation Present?	) Vac 🗸	No							
Hydric Soil Present?		No	Is the Sampled Area	V V	No				
Wetland Hydrology Present?		No	within a Wetland?	Yes	No				
Remarks:									
HYDROLOGY									
Wetland Hydrology Indicators:	•			Secondary Indic	ators (minimum of two required)				
Primary Indicators (minimum of o		ck all that annly)		Surface Soil					
Surface Water (A1)	-	_ True Aquatic Plants (	R14)		egetated Concave Surface (B8)				
High Water Table (A2)		_ Hydrogen Sulfide Od		<u>✓</u> Drainage Pa					
Saturation (A3)			es on Living Roots (C3)	Moss Trim L					
Water Marks (B1)		Presence of Reduced	-	· · · · · · · · · · · · · · · · · · ·	Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu					
Drift Deposits (B3)		Thin Muck Surface (0		-	/isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	<u> </u>	Other (Explain in Rer			Stressed Plants (D1)				
Iron Deposits (B5)				✓ Geomorphic	Position (D2)				
Inundation Visible on Aerial	Imagery (B7)			Shallow Aqu	uitard (D3)				
Water-Stained Leaves (B9)				Microtopogr	aphic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)				
Field Observations:									
		Depth (inches):							
		Depth (inches):							
Saturation Present?	∕es <u> </u>	Depth (inches):	0 Wetland I	Hydrology Prese	nt? Yes No				
(includes capillary fringe)  Describe Recorded Data (stream	n gauge, monitoring	well, aerial photos, pre	vious inspections), if ava	ailable:					
,	0 0 7	, , , , , , ,	, ,,						
Remarks:									

Sampling Point: wlea085e_v
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:2 (A)
2				
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				Species Across Air Strata. (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove	_	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:_	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species x 3 = 60
2				FACU species25
3				UPL species0 x 5 =0
				Column Totals: 90 (A) 230 (B)
4				(3)
5				Prevalence Index = B/A =2.55
6				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 <sup>1</sup>
50% of total cover: 0		total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
1 Juncus effusus	25	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0-6	25	Yes	FACU	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex lurida	20	Yes	OBL	be present, unless disturbed or problematic.
4. Xanthium strumarium	10	No	FAC	Definitions of Four Vegetation Strata:
5. Symphyotrichum dumosum	10	No	FAC	Johnson Children
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:_	18	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3.				
4				
4				Hydrophytic
5				Vegetation Present?  Yes No
0		= Total Cove		Present? res NO
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea085e\_w

SOIL

Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR 4/1	90	7.5YR 4/6	10	C	M	CL	
6-14	7.5YR 4/1	75	7.5YR 4/6	25	С	M	SIC	
								-
	-							•
		. ——						
	-							•
Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil		,	,					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be	. ,	e (S8) <b>(M</b>	Ι ΒΔ 147		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				140) (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			+1, 1 <b>+0</b> )	-	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		2)			(MLRA 136, 147)
			Redox Dark		C)		,	· · · · · · · · · · · · · · · · · · ·
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	o (A11)	Redox Dark	,	,			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
		# (A11)			. ,		_ `	Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			DD N		
	Mucky Mineral (S1) (L	.KK N,	Iron-Mangan		es (F12) <b>(I</b>	-RR N,		
	A 147, 148)		MLRA 13	•			3.	
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	21) <b>(MLR</b>	4 127, 147	) ur	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type: silf								
Depth (in	ches): 6						Hydric Soi	l Present? Yes No
Remarks:								
tomanto.								



Photo 1 Wetland data point WLEA085e\_w facing east



**Photo 2**Wetland data point WLEA085e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/Co	unty: Lewis County	;	Sampling Date: 11/16/2015			
Applicant/Owner: Dominion				_ Sampling Point: wlea085_u				
Investigator(s): GB, DQ		Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): slo		Local relief (concave, convex, none): none Slope (%):8						
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Senecaville silt	loam			NWI classifica	tion: None			
Are climatic / hydrologic conditions on		time of year? Ye	s V No (	 (If no. explain in Re	marks.)			
Are Vegetation, Soil, c								
Are Vegetation, Soil, Coll, Coll								
SUMMARY OF FINDINGS -								
	Attaon Site map Si				mportuni reatares, etc.			
Hydrophytic Vegetation Present?	Yes No_		Is the Sampled Area					
Hydric Soil Present?	Yes No_		within a Wetland?	Yes	No			
Wetland Hydrology Present?  Remarks:	Yes No_							
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indicate	ors (minimum of two required)			
Primary Indicators (minimum of one	is required; shock all the	at apply)		Surface Soil C				
Surface Water (A1)	•				etated Concave Surface (B8)			
High Water Table (A2)		Aquatic Plants (B ogen Sulfide Odor		Drainage Patte				
Saturation (A3)		-	s on Living Roots (C3)	Moss Trim Lin				
Water Marks (B1)		nce of Reduced I	-		/ater Table (C2)			
Sediment Deposits (B2)			in Tilled Soils (C6)	Crayfish Burro				
Drift Deposits (B3)	Thin N	Muck Surface (C7	")	Saturation Vis	ible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other	(Explain in Rema	arks)	Stunted or Stre	essed Plants (D1)			
Iron Deposits (B5)				Geomorphic P				
Inundation Visible on Aerial Ima	gery (B7)			Shallow Aquita				
Water-Stained Leaves (B9)				Microtopograp	• ,			
Aquatic Fauna (B13)				FAC-Neutral T	est (D5)			
Field Observations: Surface Water Present? Yes	No 🖍 Depti	h (inches):						
	No _ Depti							
	No V Depti			Wetland Hydrology Present? Yes No				
(includes capillary fringe)					: 165 NO			
Describe Recorded Data (stream ga	uge, monitoring well, ae	rial photos, previ	ous inspections), if ava	ilable:				
Remarks:								
no hydrology indicators present								

### VEGETATION (Four Strata) - Use scientific name

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

Sapling/Shrub Stratum (Plot size: 15 )

<sup>-</sup> our Strata) – Use scientific n	ames of	plants.		Sampling Point: wlea085_u
size:)	Absolute % Cover	Dominant I Species?		Dominance Test worksheet:  Number of Dominant Species
				That Are OBL, FACW, or FAC:0 (A)
				Total Number of Dominant Species Across All Strata: 1 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B
				Prevalence Index worksheet:
	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
m (Plot size: 15 )				FACW species x 2 =
				FAC species x 3 = 45
				FACU species x 4 = 320
				UPL species x 5 =
				Column Totals: 95 (A) 365 (B)
				Prevalence Index = B/A =3.84
				Hydrophytic Vegetation Indicators:
	-			1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0		= Total Cove	er O	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50 % of total cover	20% of	total cover:_		data in Remarks or on a separate sheet)
nize:) ndinaceus	60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
dumosum	10	No	FAC	
dumosum	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
ium	5	No	FAC	be present, unless disturbed or problematic.
ium	5			Definitions of Four Vegetation Strata:
		No No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
ale	5	No	FACU	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.
	95	= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:47.5		total cover:_	4.0	
(Plot size:)		30.01		Woody vine – All woody vines greater than 3.28 ft in height.
				Hydrophytic
	0	= Total Cove		Vegetation Present? Yes No
50% of total cover:		total cover:_	0	

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

Herb Stratum (Plot size: \_\_\_

4. Xanthium strumarium

6. Taraxacum officinale

1. Schedonorus arundinaceus

2. Symphyotrichum dumosum 3. Trifolium repens

5. Cichorium intybus

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

Sampling Point: wlea085\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the abser	nce of indicators.)
Depth	Matrix		Redo	x Features	S	. 2	_	
(inches) 0-4	Color (moist) 7.5YR 3/3	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> CL	e Remarks
4-12	7.5YR 4/3	100					SCL	
12-18	7.5YR 4/4	100					SCL	
								<del></del> -
<sup>1</sup> Type: C=C	Concentration, D=De	pletion RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
	Indicators:	piodori, ravi–	rtoadood Matrix, Me	<del>J-Macket</del>	Cana On	an 10.		dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(S7)				_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	ILRA 147.	148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su				,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	, ,	•	,,		Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mar		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	ce (A11)	Depleted Dar					_ Other (Explain in Remarks)
	ark Surface (A12)	( ,	Redox Depre				_	-
	Mucky Mineral (S1)	LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)	•	MLRA 13					
	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)	3	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				l8)	wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent N	laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed)	):						
Type:								
	nches):						Hvdric S	Soil Present? Yes No
Remarks:	,						,	
Kemana.								



Photo 1 Upland data point WLEA085\_u facing north



Photo 2 Upland data point WLEA085\_u facing east

Project/Site: Atlantic Coast Pip	peline	City/C	county: Lewis County		Sampling Date: 11/17/2015
Applicant/Owner: Dominion			•		Sampling Point: wlea087e_w
Investigator(s): GB, DQ		Section	on, Township, Range: No		
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): N					
Subregion (LRR of MLRA)	Lat. ahela silt loam 3 to 8 ne	rcent slones	Long		None
Soil Map Unit Name: Mononga					
Are climatic / hydrologic condition	• •	•			,
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes V No No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed, e	explain any answe	s in Remarks.)
SUMMARY OF FINDING	GS – Attach site m	nap showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes 🗸	No			
Hydric Soil Present?	Yes V	No	Is the Sampled Area	/	
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:					
Saturated PEM wetland locate as two polygons on either side	ed in a swale in an active of existing farm road.	e cattle pasture, sever	ely trampled and degrad	ed; culvert crossin	g for existing road, wetland taken
HYDROLOGY					
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)		True Aquatic Plants (	B14)		etated Concave Surface (B8)
High Water Table (A2)		or (C1)	✓ Drainage Pat		
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced			Vater Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burr	
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer			sible on Aerial Imagery (C9) ressed Plants (D1)
Iron Deposits (B5)		Other (Explain in Nei	naiks)	✓ Geomorphic	
Inundation Visible on Aer	rial Imagery (B7)			Shallow Aqui	` '
Water-Stained Leaves (B	• • • •				phic Relief (D4)
Aquatic Fauna (B13)	,			✓ FAC-Neutral	
Field Observations:					· ,
Surface Water Present?	Yes _ 🗸 No	Depth (inches):	1		
Water Table Present?		Depth (inches):			
Saturation Present?	Yes V No		^	lydrology Presen	t? Yes 🗸 No
(includes capillary fringe)  Describe Recorded Data (stre	oom gougo monitoring l	wall parial photos pro	vious inspections) if avo	ilabla	
Describe Recorded Data (Site	am gauge, monitoring v	weii, aeriai priotos, pre	vious irispections), ii ava	illable:	
Remarks:					

Sampl	ina I	Point:	wlea087e_	W

	Absolute	Dominant I	ndicator	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 New hors of Descriptor
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				CPOSICO 7 IN CITALIA:
5				Percent of Dominant Species That Are ORL FACW or FAC: 66.6666666 (A/R)
5				That Are OBL, FACW, or FAC:
6				Prevalence Index worksheet:
1	0			Total % Cover of: Multiply by:
0	:	= Total Cove	r O	OBL species x 1 = 20
50% of total cover: 0	20% of	total cover:_		20 40
Sapling/Shrub Stratum (Plot size:)				FACW species x z =
1				FAC species X3 =
2				FACU species X 4 =
3				UPL species x 5 =
4				Column Totals:80 (A)195 (B)
5				2.42
6				Prevalence Index = B/A =2.43
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0		= Total Cove	r O	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50 70 01 total 00 vol	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex lurida	20	Yes	OBL	Troblemane Tryarepriyae Vegetation (Explain)
2. Schedonorus arundinaceus	15	Yes	FACU	The disease of levels and water of levels are to
3. Echinochloa crus-galli	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Panicum hemitomon	10	No	FACW	Definitions of Four Vegetation Strata:
5. Juncus effusus	10	No	FACW	Definitions of Four Vegetation Strata.
6. Setaria pumila	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
0				neight.
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 herbaceous (non-woody) plants, regardless
40		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:40	20% of	total cover:_	16	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4.				
5.				Hydrophytic Vegetation
<u> </u>	0 :	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:	_	
Remarks: (Include photo numbers here or on a separate si		10101 00101.		
remarks. (include prioto numbers here of on a separate si	neet.)			

Sampling Point: wlea087e\_w

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the i	ndicator	or confirm	the absence	ce of indicators.)
Depth	Matrix		Redox	C Features	S			
(inches) 0-2	Color (moist) 7.5YR 4/3	<u>%</u> 100	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SIL	Remarks
2-9	7.5YR 4/2	97	7.5YR 4/6	3	С	PL/M	SICL	
9-18	7.5YR 4/1	96	7.5YR 4/6	4	С	PL/M	CL	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM:	=Reduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils <sup>3</sup> :
-			Dark Surface	(87)				_
Histosol	oipedon (A2)		Dark Surface Polyvalue Be		ce (S8) <b>(N</b>	/II RΔ 147		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			,,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat		,			(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 136 Umbric Surfa	•	MIDA 13	e 122\	31.	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	Matrix (S6)		Red Parent M					unless disturbed or problematic.
	Layer (if observed):		<u> </u>	(-	, (	<b>,</b>	<u>,                                     </u>	
Type: no								
	ches):						Hydric So	oil Present? Yes No
Remarks:								



Photo 1
Wetland data point WLEA087e\_w facing west



**Photo 2**Wetland data point WLEA087e\_w facing north

Project/Site: Atlantic Coast Pipeline		City/County: Lewis County Sampling Date: 11/17/2						
Applicant/Owner: Dominion			Sampling Point: wlea087_u					
		Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): slope	errace, etc.): slope Local relief (concave, convex, none): none Slope (%): 3							
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Monongahela silt loam	n, 3 to 8 percent slo	opes		NWI classifica	ation: None			
Are climatic / hydrologic conditions on the si								
Are Vegetation, Soil, or Hyd								
Are Vegetation, Soil, or Hyd								
SUMMARY OF FINDINGS – Attac								
	<del>-</del>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	important reatares, etc.			
	Yes No		Is the Sampled Area					
Hydric Soil Present?	Yes No_	<u> </u>	within a Wetland?	Yes	No			
Wetland Hydrology Present?  Remarks:	Yes No_							
LIVERGLOOV								
HYDROLOGY				0				
Wetland Hydrology Indicators:	Paralla di sala alla di sa	1 b A			ors (minimum of two required)			
Primary Indicators (minimum of one is requ				Surface Soil (				
Surface Water (A1)		quatic Plants (I gen Sulfide Odd			etated Concave Surface (B8)			
High Water Table (A2) Saturation (A3)			es on Living Roots (C3)	Drainage Patt Moss Trim Lir				
Water Marks (B1)		ice of Reduced			Vater Table (C2)			
Sediment Deposits (B2)			n in Tilled Soils (C6)	Crayfish Burro				
Drift Deposits (B3)		uck Surface (C		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (	Explain in Ren	narks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic F	Position (D2)			
Inundation Visible on Aerial Imagery (I	37)			Shallow Aquit	ard (D3)			
Water-Stained Leaves (B9)					phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:	No. V Double	(' l \)						
	No / Depth							
	No V Depth			leed and Dunnand	2 Vaa Na <b>V</b>			
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	(inches):	wetiand H	lydrology Present	? Yes No			
Describe Recorded Data (stream gauge, n	nonitoring well, aer	ial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
no hydrology indicators present								
, , ,								

### **VEGETATION** (Four Strata) - Use se

	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B
	<u> </u>			Prevalence Index worksheet:
	0	= Total Cov	 er	Total % Cover of: Multiply by:
50% of total cover:		total cover:	^	OBL species
apling/Shrub Stratum (Plot size: 15 )				FACW species $0 \times 2 = 0$
				FAC species 35 x 3 = 105
				FACU species X4 = X4 = X4
				UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =3.63
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
			-	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		= Total Cover:	^	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
erb Stratum (Plot size:5	20% 01	total cover.		data in Remarks or on a separate sheet)
Schedonorus arundinaceus	35	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Setaria pumila	20	Yes	FAC	
Echinochloa crus-galli	15	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Dactylis glomerata	10	No	FACU	be present, unless disturbed or problematic.
Anthoxanthum odoratum	8	No	FACU	Definitions of Four Vegetation Strata:
Datura wrightii	7	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
				more in diameter at breast height (DBH), regardless of height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
0				m) tall.
l				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47	7.5 20% of	total cover:	19	Woody vine – All woody vines greater than 3.28 ft in
oody Vine Stratum (Plot size:)				height.
	_			
				Hydrophytic
	_			Vegetation Present?  Yes No
		= Total Cov	^	FIESEIR! TES NO NO
50% of total cover:	) 20% of	total cover:	•	

Sampling Point: wlea087\_u

Profile Des	cription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the abser	nce of indicators.)
Depth	Matrix		Redo	x Features	S	. 2	_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	e Remarks
0-4	7.5YR 3/3	100						<u> </u>
4-9	7.5YR 3/4	100					SCL	
9-18	7.5YR 4/6	100					CL	
	<u> </u>							
	-							
	<del>-</del>							_
	· -							
1 <del></del>	Consentation D. Do	alatian DM	Deduced Metric MC				21	DI Dave Linia a M. Matrix
	Concentration, D=De Indicators:	pietion, Rivi=	Reduced Matrix, MS	s=iviasked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils <sup>3</sup> :
•			DI- 0(	(07)			1111	· · · · · · · · · · · · · · · · · · ·
Histoso			Dark Surface		(00) (1		4.40\	_ 2 cm Muck (A10) (MLRA 147)
	Epipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	Histic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		r2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mar		·c)			(MLRA 136, 147)
	luck (A10) (LRR N)	oo (A11)	Redox Dark				_	_ Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	ce (ATT)	Depleted Dar				_	_ Other (Explain in Remarks)
	Dark Surface (A12)	I DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) (	LKK N,	Iron-Mangan		es (F12) (	LKK N,		
	A 147, 148) Gleyed Matrix (S4)		MLRA 13	•	MIDA 12	6 122\	3	<sup>3</sup> Indicators of hydrophytic vegetation and
			Piedmont Flo					
-	Redox (S5) d Matrix (S6)		Red Parent N					wetland hydrology must be present,
	Layer (if observed)	١.	Red Parent N	ialenai (F	Z1) (WILK	A 121, 141	1	unless disturbed or problematic.
Type: n	one	).						
			<del></del>					.,
Depth (ii	nches):		<u></u>				Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Upland data point WLEA087\_u facing west



Photo 2 Upland data point WLEA087\_u facing north

Project/Site: Atlantic Coast Pipe	eline	City/C	County: Lewis		Sampling Date: 3/30/2015		
Applicant/Owner: Dominion							
Investigator(s): TP, SA Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): drainage way Local relief (concave, convex, none): none Slope (%): 2							
Subregion (LRR or MLRA): N	La	t: 39.074333	Long: -80.3	390322	Datum: WGS 1984		
Soil Map Unit Name: Vandalia	silt loam, 15 to 25 perc	cent slopes		NWI classific	ation: None		
Are climatic / hydrologic condition	ons on the site typical	for this time of year? Y	′es No	(If no, explain in R	emarks.)		
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No		
Are Vegetation, Soil							
					, important features, etc.		
Hydrophytic Vegetation Preser	nt? Yes 🗸	No					
Hydric Soil Present?		No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?		No	within a Wetland?	res	NO		
Remarks:							
to grazing.							
HYDROLOGY							
Wetland Hydrology Indicator					tors (minimum of two required)		
Primary Indicators (minimum c	•			Surface Soil			
Surface Water (A1)		_ True Aquatic Plants (			getated Concave Surface (B8)		
High Water Table (A2)		_ Hydrogen Sulfide Od		Drainage Pa			
Saturation (A3)			• , ,	Moss Trim Li			
Water Marks (B1)		_ Presence of Reduced			Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri			
Drift Deposits (B3)	_	Thin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Rer	пагкѕ)		tressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aeri	al Imagery (B7)			Geomorphic Shallow Aqui			
Water-Stained Leaves (BS					phic Relief (D4)		
Aquatic Fauna (B13)	")			FAC-Neutral			
Field Observations:			<u> </u>	<u></u> 1710 Neutral	1001 (20)		
Surface Water Present?	Yes No	Denth (inches):					
Water Table Present?	Yes No		0				
Saturation Present?	Yes No		0 Wetland H	lydrology Presen	ıt? Yes ✔ No		
(includes capillary fringe)	165 NO	Берит (піспез)	Wetianu i	iyarology i resen	III: 165 NO		
Describe Recorded Data (stream	am gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ilable:			
Remarks:							
Possible perched water table d	ue to clay laver						
T occisio perenea water table a	do to oldy layor.						

Sampling Point: wleb106e_w	Sampli	ina F	oint.	wleb106e_	_w
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20	Absolute	Dominant I		Dominance Test worksheet:		
Tree Stratum (Plot size:)		Species?		Number of Dominant Species	1	
1				That Are OBL, FACW, or FAC:	1	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	1	(B)
4				Dereast of Deminent Charles		
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
6						(,,,)
7				Prevalence Index worksheet:		
	0	= Total Cove			Multiply by:	
50% of total cover: 0				OBL species 0 x 1 =	·0	_
Sapling/Shrub Stratum (Plot size: 15 )		_		FACW species10 x 2 =	20	_
1				FAC species x 3 =	. 0	_
				FACU species 0 x 4 =	()	_
2				UPL species0 x 5 =	0	_
3				Column Totals: 10 (A)	20	(B)
4				Column rotals (//)	-	_ ()
5				Prevalence Index = B/A =	2	_
6				Hydrophytic Vegetation Indicator	s:	
7				1 - Rapid Test for Hydrophytic		
8				2 - Dominance Test is >50%	3	
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
		= Total Cove		4 - Morphological Adaptations <sup>1</sup>	(Provide sun	norting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a seg	•	porting
Herb Stratum (Plot size: 5				,	,	
1. Juncus effusus	10	Yes	FACW	Problematic Hydrophytic Veget	ation (Expla	in)
2						
3				¹Indicators of hydric soil and wetlan		nust
4				be present, unless disturbed or prol		
5				Definitions of Four Vegetation St	rata:	
6				Tree - Woody plants, excluding vin	es, 3 in. (7.6	cm) or
				more in diameter at breast height (E	DBH), regardl	ess of
7				height.		
8				Sapling/Shrub - Woody plants, ex	cluding 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, rega	rdless
_		= Total Cove		of size, and woody plants less than	3.28 ft tall.	
50% of total cover: 5	20% of	total cover:_	2	Woody vine – All woody vines grea	ater than 3.28	ft in
Woody Vine Stratum (Plot size:)				height.		-
1						
2						
3						
4				Hydrophytic		
5				Hydrophytic Vegetation		
	_	= Total Cove		1	No	
50% of total cover:		total cover:	0			
Remarks: (Include photo numbers here or on a separate since the control of the could not be identified as a separate since the		cies, due to g	ırazing.			

Sampling Point: wleb106e\_w

Depth	Matrix			<u> Features</u>	S1	. 2		
inches) 0-12	Color (moist) 10YR 3/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> CL	Remarks
0-12	10113/1		10114/0					
								-
							2	
		letion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	Location: P	L=Pore Lining, M=Matrix.
	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel				148) C	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)	_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat	` '	C)			(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surface	o (A11)	Depleted Dark	•	•			ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	5 (A11)	Redox Depre		. ,			oner (Explain in Kemarks)
	Mucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangane			I DD N		
	4 147, 148)	INN IN,	MLRA 136		55 (F12) <b>(</b>	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	-	MI RA 13	6 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					less disturbed or problematic.
	Layer (if observed):		110011 0101111	iatoriai (i z	/ <b>(</b> .		, u	need distanced of problematic.
Type:								
	-l \·						Unadaia Cail	Dunganta Van V
Depth (in	cnes):						Hydric Soil	Present? Yes No
emarks:								



Photo 1 Wetland data point wleb106e\_w facing west



Photo 2
Wetland data point wleb106e\_w facing east

Project/Site: Atlantic Coast Pipeline	City/County: Lewis	Sampling Date: 3/30/2015					
Applicant/Owner: Dominion	State: WV Sampling Point: W						
Investigator(s): TP, SA Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): hill slope Local relief (concave, convex, none): none Slope (%): 5							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Vandalia silt loam, 15 to 25 p	ercent slopes	NWI classification: None					
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	(If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumstances" present? Yes No					
Are Vegetation, Soil, or Hydrology _							
		ons, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	_					
	No. 4						
	within a Wetland?	Yes No					
Remarks:							
LIVEROLOGY							
HYDROLOGY Wetland Hydrology Indicators		Cocondary Indicators (minimum of two required)					
Wetland Hydrology Indicators:	hook all that apply)	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; c		Surface Soil Cracks (B6)					
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Saturation (A3)	<ul><li>Oxidized Rhizospheres on Living Roots (C3)</li><li>Presence of Reduced Iron (C4)</li></ul>						
		Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)						
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9)					
	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		Geomorphic Position (D2)					
Water-Stained Leaves (B9)		Shallow Aquitard (D3) Microtopographic Relief (D4)					
Aquatic Fauna (B13)		<pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre>					
Field Observations:		TAO-Neutral Test (D3)					
	Depth (inches):						
	Depth (inches):						
		Hydrology Present? Yes No					
(includes capillary fringe)		· • — —					
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if ava	allable:					
Remarks:							

Sampling	Point: wleb106_u

20	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> 10	Species?	Status FACU	Number of Dominant Species
1. Carya ovata		Yes	FACU	That Are OBL, FACW, or FAC:0 (A)
2		<u> </u>		Total Number of Deminant
3				Total Number of Dominant Species Across All Strata:  2 (B)
				Opedies Across Air Otrata.
4		·		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
	10	= Total Cover	r	Total % Cover of: Multiply by:
50% of total cover:5	20% of	total cover:	2	OBL species x 1 = 0
Sapling/Shrub Stratum (Plot size: 15				FACW species0 x 2 =0
1 Rosa multiflora	10	Yes	FACU	FAC species0 x 3 =0
· ·	-	·		FACU species 20
2		·		
3				20 80
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =4
6			·	Trevalence index = D/A =
7		·		Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
_		= Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:5	20% of	total cover:_	2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				· · · · · · · · · · · · · · · · · · ·
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Total Mandaglada sududiancias Gia (7.0 as)
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
_		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:_	2	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4		·		Hydrophytic
5				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			

Sampling Point: wleb106\_u

Profile Desc	cription: (Describe to	o the depth				or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	S1	. 2	_				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> CL		Remarl	(S	
0-12	10YR 4/4	100					CL_				
					-			-			
					,						
					-						
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	<sup>2</sup> Location: P	I =Pore Lin	ing M=Mat	rix	
Hydric Soil		5tion, rtivi—rt	oddodd Matrix, Mc	<u>J-Macked</u>	Cana On	an 10.			roblematic		oils³:
Histosol			Dark Surface	(97)					(A10) <b>(MLR</b>	-	
	oipedon (A2)		Polyvalue Be	. ,	CD (SR) (N	II RΔ 147			e Redox (A	•	
	stic (A3)		Thin Dark Su					MLRA 14)		· • /	
	en Sulfide (A4)		Loamy Gleye	, ,	•	-1, 1 <del>4</del> 0)			oodplain Sc	ils (F10)	
	d Layers (A5)		Depleted Mat		1 2)		<u> </u>	(MLRA 1		113 (1 13)	
	uck (A10) (LRR N)		Redox Dark \$		·6)		\	•	w Dark Surf	ace (TF12)	
	d Below Dark Surface	(A11)	Depleted Dar					•	ain in Rema	, ,	
	ark Surface (A12)	(, )	Redox Depre					/ ( _ / tp / c			
	Mucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Mangan			LRR N.					
	A 147, 148)	,	MLRA 13		(	,					
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)	<sup>3</sup> Inc	licators of h	ydrophytic '	vegetation	and
	Redox (S5)		Piedmont Flo						ology must b	-	
	Matrix (S6)		Red Parent N					-	ed or probl		
	Layer (if observed):					<u> </u>	Ì		<u> </u>		
Type:	,										
	ches):		<del>_</del>				Hydric Soi	Present?	Yes	No	<b>~</b>
Remarks:			<u> </u>				Tryante con				
Remarks.											



Photo 1 Upland data pint wleb106\_u facing east



Photo 2 Upland data pint wleb106\_u facing west

Project/Site: Atlantic Coast Pip	peline	City/Co	ounty: Lewis County		Sampling Date: 11/17/2015
Applicant/Owner: Dominion			, -		Sampling Point: wlea086e_w
• • • • • • • • • • • • • • • • • • • •		Sectio	n. Township, Range: No		
Landform (hillslope, terrace, et					
Subregion (LRR or MLRA): N					
Subregion (LRR of MLRA)	Lat	ent slones	Long	NA// 1 'C	None
Soil Map Unit Name: Mononga					
Are climatic / hydrologic condit	* *				
Are Vegetation, Soil	, or Hydrology	_ significantly disturb	ped? Are "Normal	I Circumstances" p	resent? Yes V No No
Are Vegetation, Soil	, or Hydrology	_ naturally problema	tic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDING	GS – Attach site ma	p showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes <u> </u>	No			
Hydric Soil Present?	Yes V	No	Is the Sampled Area	/	
Wetland Hydrology Present?		No	within a Wetland?	Yes	No
Remarks:					
Saturated PEM wetland locate polygon across existing farm r		cattle pasture, severe	ely trampled and degrad	ed; no culvert is pr	esent, wetland taken as a single
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is required; check	all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)	T	rue Aquatic Plants (E	314)		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pat	terns (B10)
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rem	iaiks)	Geomorphic	ressed Plants (D1)
Inundation Visible on Aei	rial Imagery (R7)			Shallow Aqui	
Water-Stained Leaves (E					phic Relief (D4)
Aquatic Fauna (B13)	,			FAC-Neutral	
Field Observations:					. ,
Surface Water Present?	Yes _ 🗸 No I	Depth (inches):	1		
Water Table Present?	Yes No				
Saturation Present?	Yes No		`	lydrology Presen	t? Yes No
(includes capillary fringe)					
Describe Recorded Data (stre	eam gauge, monitoring we	ell, aerial photos, prev	vious inspections), if ava	allable:	
Remarks:					
Tromanio.					

Sampling	Point: wlea086e_	W
Sambilliu	PUIII. """	٠.

00	Absolute	Dominant In	dicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Danisant
3				Total Number of Dominant Species Across All Strata: 3 (B)
Δ				Openies / toross / tir etrata.
T		<del></del>		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species10
				FAC species25 x 3 =75
1				FACU species 15 x 4 = 60
2				
3				UPL species $0 \times 5 = 0$
4		·		Column Totals: (A) (B)
5				Prevalence Index = R/A = 2.61
6				1 Totalefide fildex = B/T(=
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	=	= Total Cover		
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Echinochloa crus-galli	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex Iurida	15	Yes	OBL	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Schedonorus arundinaceus	15	Yes	FACU	be present, unless disturbed or problematic.
4. Setaria pumila	10	No	FAC	Definitions of Four Vegetation Strata:
5. Juncus effusus	10	No	FACW	Johnson Coll Car Togotation Carata
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
	65 _	Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 32.5		total cover:	13	o. o.zo, and neody planto lood than o.zo it tam
22	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				
				Hydrophytic Vegetation
5				vegetation ,
5				Present? Yes No
	0 =	= Total Cover		Present? Yes No
50% of total cover:0	0 = 20% of	Total Cover total cover:	0	Present? Yes No
	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No
50% of total cover:0	0 = 20% of			Present? Yes No

Sampling Point: wlea086e\_w

Profile Desc	ription: (Describe t	o the dep	th needed to docum	nent the i	ndicator	or confirm	the absen	nce of indicators.)
Depth	Matrix		Redox	C Features	S			
(inches) 0-2	Color (moist) 7.5YR 4/5	<u>%</u> 100	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u> L	Remarks
2-8	7.5YR 4/2	97	7.5YR 4/6	3	С	PL/M	CL	
8-18	7.5YR 4/1	96	7.5YR 4/6	4	С	PL/M	CL	
						<u> </u>		
<sup>1</sup> Type: C=Ce	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.  dicators for Problematic Hydric Soils <sup>3</sup> :
-			Dark Surface	(97)				
Histosol			Dark Surface		00 (50) /8	/II D A 4.47	149\	2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel				140)	Coast Prairie Redox (A16)
	stic (A3)			. ,	•	147, 148)		(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye ✓ Depleted Mat		F2)		_	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S		:6\			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	, (, (, , , , ,	Redox Depre					_ Other (Explain in Remarks)
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangane			LRR N.		
	A 147, 148)	,	MLRA 136		00 (i i <b>z</b> ) (			
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	36. 122)	3	Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	Matrix (S6)		Red Parent M					unless disturbed or problematic.
	Layer (if observed):				, (		<u></u>	, , , , , , , , , , , , , , , , , , , ,
Type: no	ne `							
	ches):		<del></del>				Hydric S	Soil Present? Yes No
Remarks:								



Photo 1 Wetland data point WLEA086e\_w facing east



Photo 2
Wetland data point WLEA086e\_w facing south

Project/Site: Atlantic Coast Pipeline	Cit	y/County: Lewis County	Sampling Date: 11/17/2015				
Applicant/Owner: Dominion			ate: WV Sampling Point: wlea086_u				
Landform (hillslope, terrace, etc.): slope			none Slope (%): 4				
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Monongahela silt loam,	3 to 8 percent slopes		NWI classification: None				
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydro							
Are Vegetation, Soil, or Hydro							
			transects, important features, etc.				
			,, <b>p</b> ,,,,,				
	es No	Is the Sampled Area	,				
Hydric Soil Present? Ye Wetland Hydrology Present? Ye	es No_ 🗸 es No_ 🗸	within a Wetland?	Yes No				
Remarks:	55 NO						
HYDROLOGY							
Wetland Hydrology Indicators:			ondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require			Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plan		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide		Drainage Patterns (B10) Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Redu	- · · · · · · · · · · · · · · · · · · ·	Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in F		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	7)	_	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)		<u> </u>	FAC-Neutral Test (D5)				
Field Observations:							
	No Depth (inches):						
	No Depth (inches):						
Saturation Present? Yes   (includes capillary fringe)	No Depth (inches):	Wetland Hydro	ology Present? Yes No				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos,	previous inspections), if available	9:				
Remarks:							
no hydrology indicators present							
, , , , , , , , , , , , , , , , , , , ,							

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

\_\_\_\_)

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

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

% Cover Species? Status

\_\_\_\_ = Total Cover \_ 20% of total cover:\_\_\_

0 = Total Cover 20% of total cover: 0

15

10

8

50% of total cover: 47.5 20% of total cover: 19

50% of total cover: 0 20% of total cover:

Yes FACL

FAC

FAC

FACL

FACL

FACL

Yes

No

No \_

95\_\_\_ = Total Cover

0 = Total Cover

30

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

3. Echinochloa crus-galli

4. Dactylis glomerata

2. Setaria pumila

6. Datura wrightii

	Sampling Poir	nt: <u>wlea086_u</u>					
	Dominance Test worksheet:						
_	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)				
-	Total Number of Dominant Species Across All Strata:	2	(B)				
-	Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)					
-	Prevalence Index worksheet:						
-	Total % Cover of:	Multiply by:					
	OBL species 0 x 1	^					
-	FACW species 0 x 2	= 0	_				
	FAC species 35 x 3	105	_				
-	FACU species 60 x 4	= 240	_				
-	UPL species 0 x 5		_				
-	Column Totals: 95 (A)	345	(B)				
-	Column Totals (A)		(B)				
-	Prevalence Index = B/A = _	3.63	_				
-	Hydrophytic Vegetation Indicate	ors:					
_	1 - Rapid Test for Hydrophytic	Vegetation					
_	2 - Dominance Test is >50%						
_	3 - Prevalence Index is ≤3.0 <sup>1</sup>						
	4 - Morphological Adaptations <sup>1</sup> (Provide supporting						
-	data in Remarks or on a separate sheet)						
-	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
-	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
-	Definitions of Four Vegetation S	itrata:					
_	Tree – Woody plants, excluding vi	noo 2 in /76	om) or				
_	more in diameter at breast height		,				
_	height.	· // 5					
_	Sapling/Shrub – Woody plants, e	veludina vines	locc				
-	than 3 in. DBH and greater than o 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					
-							

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

5. Anthoxanthum odoratum

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

Sampling Point: wlea086\_u

SOIL

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of	findicators.)
Depth Matrix	Redox Features		_
(inches)         Color (moist)         %           0-3         7.5YR 3/3         100	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture SL	Remarks
3-9 7.5YR 3/4 100		SL	
9-18 7.5YR 4/6 100		SCL	
			_
<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:	·		ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)	2 cr	m Muck (A10) <b>(MLRA 147)</b>
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	<b>148)</b> Coa	ast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(1	MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		dmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		y Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Oth	er (Explain in Remarks)
<ul><li>Thick Dark Surface (A12)</li><li>Sandy Mucky Mineral (S1) (LRR N,</li></ul>	<ul><li>Redox Depressions (F8)</li><li>Iron-Manganese Masses (F12) (LRR N,</li></ul>		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indica	ators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 148		and hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)		ss disturbed or problematic.
Restrictive Layer (if observed):			·
Type:	<u></u>		
Depth (inches):		Hydric Soil P	resent? Yes No
Remarks:			



Photo 1 Upland data point WLEA086\_u facing east



Photo 2 Upland data point WLEA086\_u facing south

Project/Site: Atlantic Coast Pipeline	City/County: Lewis	Sampling Date: 3/30/2015
Applicant/Owner: Dominion		State: WV Sampling Point: wleb107e_w
Investigator(s): TP, SA	Section, Township, Range: N	
Landform (hillslope, terrace, etc.): toe-of-slope		
Subregion (LRR or MLRA): N		
Soil Map Unit Name: Janelew channery silt loam,	steep	NWI classification: None
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norma	al Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		
		ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No Is the Sampled Area	
Hydric Soil Present? Yes	Is the Sampled Area	Yes 🗸 No
	✓ No within a Wetland?	resNo
Remarks:	l l	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	<ul> <li>Oxidized Rhizospheres on Living Roots (C3)</li> </ul>	
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:		
	Depth (inches):	
	Deptn (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland	Hydrology Present? Yes No
	ring well, aerial photos, previous inspections), if av	ailable:
Remarks:		
Possible perched water table due to clay layer.		

Sampling Point: wleb107e_v	Sampl	ina	Point:	wleb107e	_w
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00	Absolute	Dominant In		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total North and Chambers
3				Total Number of Dominant Species Across All Strata: 2 (B)
_		·		Operics / toross / till otrata.
· ·		·		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:
50% of total cover:0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =40
· · ·				FAC species0 x 3 =0
1				FACU species 0 x 4 = 0
2				0 0
3				20 40
4				Column Totals: (A) (B)
5				Prevalence Index - B/A - 2
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 <sup>1</sup>
	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 Packera aurea	10	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Boehmeria cylindrica	10	Yes	FACW	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	20	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10	20% of	total cover:	4	
Woody Vine Stratum (Plot size: 30				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
				neight.
1		·		
2				
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s		_		
Remarks. (include prioto numbers here of off a separate s	neet.)			

Sampling Point: wleb107e\_w

Profile Des	cription: (Describe t	o the de	•			or confirm	the absence	of indicators.)
Depth	Matrix		Redox	x Feature	S1	. 2	<b>-</b> .	5
(inches)	Color (moist)	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> CL	Remarks
0-12	10YR 3/1	95	1011 4/0	<u> </u>		PL	CL	
				-				
				-				
<sup>1</sup> Type: C=C	concentration, D=Deple	etion, RM	I=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, -,	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S	. ,	<del>-</del> 6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	•	,			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,		
	A 147, 148)		MLRA 130		, , ,			
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M					less disturbed or problematic.
Restrictive	Layer (if observed):							· · · · · · · · · · · · · · · · · · ·
Type:								
	iches):						Hydric Soil	Present? Yes No
Remarks:	,							
rtemants.								



Photo 1 Wetland data point wleb107e\_w facing east



Photo 2
Wetland data point wleb107e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Lewis		Sampling Date: 3/30/2015			
Applicant/Owner: Dominion					Sampling Point: wleb107_u			
		Section	on, Township, Range: No	PLSS in this area	1			
Landform (hillslope, terrace, etc.): hill slo								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Janelew channery	silt loam, steep			NWI classific	ation: None			
Are climatic / hydrologic conditions on th	e site typical for	this time of year? Y	es No	(If no, explain in R	emarks.)			
Are Vegetation, Soil, or F	lydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No			
Are Vegetation, Soil, or H								
SUMMARY OF FINDINGS – At		_ ,	•	•	•			
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area					
Hydric Soil Present?	Yes		within a Wetland?	Yes	No			
Wetland Hydrology Present?  Remarks:	Yes	No						
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is	required; check	all that apply)		Surface Soil				
Surface Water (A1)		rue Aquatic Plants (		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Ode		Drainage Par				
Saturation (A3)			• ,					
Water Marks (B1) Sediment Deposits (B2)		Presence of Reduced	n in Tilled Soils (C6)	Dry-Season	Water Table (C2)			
Orift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Ren			tressed Plants (D1)			
Iron Deposits (B5)		(=:	,	· <del></del>	Position (D2)			
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqui				
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
		Depth (inches):						
		Depth (inches):						
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	Wetland H	lydrology Presen	t? Yes No			
Describe Recorded Data (stream gauge	e, monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:				
Remarks:								
Remarks.								

Sampling	Point: wleb107_	u
Sambinio	FUILL	

00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Platanus occidentalis	30	Yes	FACW	That Are OBL, FACW, or FAC:1 (A)
2				T. IN I I I
3				Total Number of Dominant Species Across All Strata:  3 (B)
				Opedies Across Air Strata (b)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33.33333333 (A/B)
6				Prevalence Index worksheet:
7				
	30	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover:15	20% of	total cover:_	6	OBL species x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )		_		FACW species 30
1 Hamamelis virginiana	15	Yes	FACU	FAC species0 x 3 =0
				FACU species 20 x 4 = 80
2				
3				UPL species $x = 50$
4				Column Totals: (A) (B)
5				Prevalence Index - B/A - 2.8
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 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cover:_	3	
Herb Stratum (Plot size: 5				data in Remarks or on a separate sheet)
1 Polystichum acrostichoides	5	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
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				- W
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8		<u> </u>		
^				Sapling/Shrub – Woody plants, excluding vines, less
		·		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				m) tan.
11				Herb – All herbaceous (non-woody) plants, regardless
	5	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5	20% of	total cover:_	1	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	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.)			
	,			

Sampling Point: wleb107\_u

Profile Des	cription: (Describe	to the dept				or confirm	the absen	ce of indicators.)
Depth (in a land)	Matrix	0/	Redo	K Feature:	S T 1	12	T t	D
(inches) 0-4	Color (moist) 10YR 3/4	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	Remarks
4-12	10YR 4/4	100					SCL	<u> </u>
					-			_
					-			
					-			_
<u> </u>						·	2, ,,	
	Concentration, D=Dep Indicators:	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
•							ina	licators for Problematic Hydric Soils
Histoso			Dark Surface	. ,			—	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		-0\			(MLRA 136, 147)
	uck (A10) (LRR N)	o (A11)	Redox Dark S				_	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ed Below Dark Surfac	e (ATT)	Depleted Dar Redox Depre					Other (Explain in Remarks)
	ark Surface (A12)	DD N				I DD N		
	Mucky Mineral (S1) <b>(I</b> <b>A 147, 148)</b>	LKK N,	Iron-Mangan		es (F12) <b>(</b>	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MI DA 13	e 122\	31	ndicators of hydrophytic vegetation an
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):	1	Neu i aleni i	iateriai (i	Z I) (IVILIX	A 121, 141	1	unless disturbed of problematic.
	Layer (ii observea).	•						
Type:			<del></del>					<b></b>
	nches):						Hydric S	oil Present? Yes No
Remarks:								



Photo 1 Upland data point wleb107\_u facing east



Photo 2 Upland data point wleb107\_u facing west

Project/Site: Atlantic Coast Pipe	line	City/C	ounty: Lewis County		Sampling Date: 11/12/2015
Applicant/Owner: Dominion				State: WV	Sampling Point: wlea076e_w
		Section	on, Township, Range: No	PLSS in this are	a
Landform (hillslope, terrace, etc.					
Subregion (LRR or MLRA). N	ı	Lat: 39.06704314	Long: -80.	38604814	Datum: WGS 1984
Soil Map Unit Name: Vandalia s	ilt loam, 15 to 25 pe	ercent slopes		NWI classifi	cation: None
Are climatic / hydrologic condition	ns on the site typica	al for this time of year? Y	es No	(If no, explain in F	Remarks.)
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Normal	l Circumstances"	present? Yes No
Are Vegetation, Soil					
					s, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	✓ No			
Hydric Soil Present?		/No	Is the Sampled Area within a Wetland?	Vos V	No
Wetland Hydrology Present?			within a wetland:	165	
Remarks:					
LIVERSI SOV					
HYDROLOGY					
Wetland Hydrology Indicator					ators (minimum of two required)
Primary Indicators (minimum o	•			Surface Soil	
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pa	
Saturation (A3)		<ul><li>Oxidized Rhizosphere</li><li>Presence of Reduced</li></ul>		Moss Trim L	, ,
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bu	Water Table (C2)
Drift Deposits (B3)	-	Thin Muck Surface (C		-	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	-	Other (Explain in Ren			Stressed Plants (D1)
Iron Deposits (B5)	-		,	<b>✓</b> Geomorphic	
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aqu	
✓ Water-Stained Leaves (B9)	1)				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)
Field Observations:					
Surface Water Present?		Depth (inches):	2		
Water Table Present?	Yes No	Depth (inches):	0		
Saturation Present?	Yes No	Depth (inches):	0 Wetland H	Hydrology Prese	nt? Yes <u>'</u> No
(includes capillary fringe)  Describe Recorded Data (streat	am gauge, monitorir	ng well, aerial photos, pre	vious inspections), if ava	ailable:	
200000 1.00000 2 (000	an gaage, memen	.ge, aeriai prietee, pre			
Remarks:					

Sampling	Point: wlea076e_	W
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	00	Absolute	Dominant In		Dominance Test worksheet:
2.	Tree Stratum (Plot size: 30 )	% Cover	Species?	<u>Status</u>	Number of Dominant Species
3.	1				That Are OBL, FACW, or FAC:2 (A)
Species Across All Siratars   Spec	2				Total Number of Dominant
Percent of Dominant species   So   (AB)	3				1
That Are OBL, FACW, or FAC:   50   (A/B)	4	-			Barrand of Barrian of Oracina
Frevalence Index worksheet:   Total % Cover of   Multiply by:   Total % Cover of   Multiply by:   Sapling/Shrub Stratum (Plot size:   15   )	5				
Total Score   Solida   Cover   Solida					That Ale ODE, I AOW, OI I AO.
Total Scover   Total Cover   Solution   Tota					Prevalence Index worksheet:
Sapiling/Shrub Stratum (Plot size: 15 )   20% of total cover: 0   CAC Species   30		0	= Total Cover		Total % Cover of: Multiply by:
FACW species   S   X 2 = 10	50% of total cover:			_	OBL species X 1 =
FAC species   S   X   3   15	15				FACW species x 2 =
2	,				FAC species $5 \times 3 = 15$
3					45 400
Column Totals:   85   (A)   235   (B)					0
Prevalence Index = B/A = 2.76					85 235
6.					Column Totals (A) (B)
7.					Prevalence Index = B/A =2.76
1 - Rapid Test for Hydrophytic Vegetation   2 - Dominance Test is >50%	6				Hydrophytic Vegetation Indicators:
8.	7				
Some of total cover:   Definitions of Four Vegetation Stratus   Some of total cover:   Definitions of Four Vegetation Stratus   Some of total cover:   Definitions of Some of total cover:   Some of total cover:   Definitions of Some of S	8	-			
Solidation   Sol	9				
Solve of total cover:   Solv		0	= Total Cover		
Schedonorus arundinaceus   30	50% of total cover:0				
Schedonorus arundinaceus   30    Yes   FACU   FACU   FACU   2    Sapting/Shrub   Woody Vine Stratum (Plot size:	Herb Stratum (Plot size: 5 )				. ,
3. Carex scabrata 4. Mimulus alatus 5. Juncus effusus 6. Verbesina alternifolia 7. Sapling/Shrub — Woody plants, excluding vines, as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub — Woody plants, excluding vines, as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  11. 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 Stratum (Plot size: 30 )  1. Substratum (Plot size: 30 )  2. Substratum (Plot size: 30 )  3. Substratum (Plot size: 30 )  4. Substratum (Plot size: 30 )  5. Substratum (Plot size: 30 )  6. Verbesina alternifolia  5. No FAC  7. Substratum (Plot size: 30 )  8. Substratum (Plot size: 30 )		30	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Carex scabrata 4. Mimulus alatus 5. Juncus effusus 6. Verbesina alternifolia 7. Sapling/Shrub — Woody plants, excluding vines, as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub — Woody plants, excluding vines, as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  11. 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 Stratum (Plot size: 30 )  1. Substratum (Plot size: 30 )  2. Substratum (Plot size: 30 )  3. Substratum (Plot size: 30 )  4. Substratum (Plot size: 30 )  5. Substratum (Plot size: 30 )  6. Verbesina alternifolia  5. No FAC  7. Substratum (Plot size: 30 )  8. Substratum (Plot size: 30 )	2 Dactylis glomerata	15	Yes	FACU	
4. Mimulus alatus 5. Juncus effusus 6. Verbesina alternifolia 7. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 12. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 13. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  14. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  15. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  16. Woody Vine Stratum (Plot size: 30 ) 17. Stratum (Plot size: 30 ) 18. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  18. Sapling/Shrub – Woody plants, excluding vines, and woody plants less than 3 in. Tree – Woody vines are the spatch height.  19. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  19. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. Tree – Woody plants, regardless of size, and woody plants less than 3 in. Tree – Woody vines are the spatch height.  19. Sapling/Shrub – Woody plants, regardless of size, and woody plants less than 3.28 ft in height.  10. Sapling/Shrub – Woody plants, regardless of size, and woody plants less than 3.28 ft in height.  10. Sapling/Shrub – Woody vines greater than 0 in the stratum of the plant in the stratum of the plant in the		15	Yes	OBL	
5 No FACW 6. Verbesina alternifolia 5 No FACW 8. Saling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  11. Solvent Stratum (Plot size: 30 ) 1. Solve					
6. Verbesina alternifolia  5 No FAC 7. Sapling/Shrub – 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 Stratum (Plot size: 30 )  1. Supling/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 in height.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No Present? Yes No Present?	"				Definitions of Four Vegetation Strata:
7	<u> </u>				Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
8	6. Verbesina alternifolia		NO	FAC	
9	7				height.
9	8				Sanling/Shrub – Woody plants, excluding vines, less
11	9				
S5	10				m) tall.
Solid total cover:   42.5   20% of total cover:   17	11	-			Herb – All herbaceous (non-woody) plants, regardless
Solid total cover: 42.5   20% of total cover: 17		85	= Total Cover		
No   No   No   No   No   No   No   No	50% of total cover: 42.5				Was desided. All over the design of the COO file.
1	Woody Vine Stratum (Plot size: 30 )				
2					neight.
3					
4					
5					
50% of total cover: 0 20% of total cover: 0	5				Vegetation
20% of total cover 20% of total cover.					Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	50% of total cover:0	20% of	total cover:		
	Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea076e\_w

Depth	Matrix		pth needed to docum	x Feature				•
(inches)	Color (moist)	%	Color (moist)	% <u>reature.</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	7.5YR 4/2	90	7.5YR 5/4	10	C	PL/M	SIL	
2-14	10YR 4/2	90	5YR 4/4	10		PL/M	SICL	
Z-14	1011(4/2		<del></del>					
			. <u> </u>					
					-			
						<del></del>		
		· ———	· <del></del>			·		
					-			
	-					·		
			·					
		letion, RM	1=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
•	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface					cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				<b>148)</b> C	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)	5	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		P	Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		✓ Depleted Marger  Redox Dark State  Redox Dark State  Redox Dark State  **The content of the content of t		<b>.</b> 6)		\/	(MLRA 136, 147) 'ery Shallow Dark Surface (TF12)
	ed Below Dark Surface	e (A11)	Depleted Dar		,			Other (Explain in Remarks)
	ark Surface (A12)	0 (7111)	Redox Depre				~	orier (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	<b>,</b>	MLRA 13		(, (	,,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	36, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	etland hydrology must be present,
Stripped	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type: no	one							
Depth (in							Hydric Soil	Present? Yes No
Remarks:								
oils disturbe	ed by cattle							
	, , , , , , , , , , , , , , , , , , , ,							



Photo 1 Wetland data point WLEA076e\_w facing southeast



Photo 2
Wetland data point WLEA076e\_w facing southwest

Project/Site: Atlantic Coast Pipeline		c	ity/County: Lewis County		Sampling Date: 11/12/2015			
Applicant/Owner: Dominion			State: WV	Sampling Point: wlea076_u				
Investigator(s): GB, TN, DQ		S	ection, Township, Range: N					
Landform (hillslope, terrace, etc.): valle								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Vandalia silt loam	ı, 15 to 25 perce	ent slopes		NWI classifi	cation: None			
Are climatic / hydrologic conditions on t								
Are Vegetation, Soil, or								
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A								
					· · ·			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No 🗸	Is the Sampled Area		.,			
Wetland Hydrology Present?	Yes	No 🗸	within a Wetland?	Yes	No			
Remarks:	103							
Upland data point taken on a slight rise disturbed					,			
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of one is	required; check	k all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)		True Aquatic Pla		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide						
Saturation (A3)			oheres on Living Roots (C3)					
Water Marks (B1)	· · · · · · · · · · · · · · · · · · ·	Presence of Red	` '		Water Table (C2)			
Sediment Deposits (B2)			uction in Tilled Soils (C6)	Crayfish Bu				
Drift Deposits (B3)		Thin Muck Surface			/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in	Remarks)	· · · · · · · · · · · · · · · · · · ·	Stressed Plants (D1)			
Iron Deposits (B5)	on/ (P7)			Geomorphic	Position (D2)			
<ul><li> Inundation Visible on Aerial Imag</li><li> Water-Stained Leaves (B9)</li></ul>	ery (b/)				aphic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutra				
Field Observations:			<u> </u>	17.0 140414	1 1001 (20)			
	No 🗸	Depth (inches):						
		Depth (inches):_						
		Depth (inches):_		Hydrology Prese	nt? Yes No			
(includes capillary fringe)		. , , , ,			163 <u>——</u> 116 <u>——</u>			
Describe Recorded Data (stream gau	ge, monitoring w	vell, aerial photos	, previous inspections), if av	ailable:				
Remarks:								
no hydrology indicators present								
The Hydrology maleatore process								

Sampling	Point: wlea076_u
Samulinu	FUILL

	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:30)  1 Platanus occidentalis	% Cover 2	Species? _ Yes	Status FACW	Number of Dominant Species
1. Platanus occidentalis				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove		Total % Cover of: Multiply by:
	20% of	total cover:	0.4	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Rosa multiflora	5	Yes	FACU	FAC species x 3 =
2				racu species x 4 =
3				UPL species $0 \times 5 = 0$
4				Column Totals: (A) (B)
5	-			Prevalence Index = B/A = 3.96
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9.				2 - Dominance Test is >50%
	5	= Total Cove		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 2.5		total cover:_	1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
1. Schedonorus arundinaceus	60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Dactylis glomerata	20	Yes	FACU	
3. Plantago major	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago canadensis	5	No	FACU	
5. Trifolium repens	5	No	FACU	Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				noight.
0				Sapling/Shrub – Woody plants, excluding vines, less
10.				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				
· · · · · · · · · · · · · · · · · · ·	95	Total Cava		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5		= Total Cover total cover:_		
Woody Vine Stratum (Plot size: 30 )	2070 01	total oover		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
0		= Total Cove	^	Present? Yes No
50% of total cover:0		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				I

Sampling Point: wlea076\_u

Profile Des	cription: (Describe t	to the dep	oth needed to docur	nent the i	indicator	or confirn	n the ab	osence of indicators.)
Depth	Matrix			x Feature			_	_
(inches) 0-2	Color (moist) 10YR 3/3	<u>%</u> 100	Color (moist)	%	_Type <sup>1</sup> _	Loc <sup>2</sup>		<u>kture</u> <u>Remarks</u> SIL
2-8	10YR 4/3	65	10YR 5/3	35	С	М	S	SIL
						·		
						·		
						·		
	Concentration, D=Depl	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
-	Indicators:							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	, ,		Dark Surface	. ,				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark		-c)			(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	- (Δ11)	Redox Dark		•			Other (Explain in Remarks)
	Park Surface (A12)	5 (A11)	Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	.RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		00 (i i=) <b>(</b>			
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 13	86, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				18)	wetland hydrology must be present,
Strippe	d Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
	Layer (if observed):							
Type: rc								,
	nches): 8						Hydr	ric Soil Present? Yes No
Remarks:								
ock at 8 incl	nes							



Photo 1 Upland data point WLEA076\_u facing southeast



**Photo 2**Upland data point WLEA076\_u facing southwest

Project/Site: Atlantic Coast Pipel	ine	City/Co	ounty: Lewis		Sampling Date: 3/30/2015			
Applicant/Owner: Dominion				State: WV	_ Sampling Point: wleb108e_w			
Investigator(s): TP, SA		Section	n, Township, Range: No	PLSS in this area				
Landform (hillslope, terrace, etc.)	: toe-of-slope	Local relie	ef (concave, convex, nor	ne): concave	Slope (%):2			
Subregion (LRR or MLRA): N	La	at: 39.05915578	Lona: -80.3	38010503	Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Upsl	nur silt loams, 35 to	70 percent slopes, sever	ely eroded	NWI classifica	ntion: None			
Are climatic / hydrologic condition	ns on the site typical	for this time of year? Ye	es No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil								
Are Vegetation, Soil								
SUMMARY OF FINDING								
			31					
Hydrophytic Vegetation Presen	Yes V	NI <sub>0</sub>	Is the Sampled Area					
Hydric Soil Present? Wetland Hydrology Present?		No	within a Wetland?	Yes	_ No			
Remarks:	165	NO						
HYDROLOGY								
	<u> </u>			Cocondon, Indicat	are (minimum of two required)			
Wetland Hydrology Indicators Primary Indicators (minimum of		ok all that apply)			ors (minimum of two required)			
Surface Water (A1)		_ True Aquatic Plants (B	21.4)	Surface Soil C				
High Water Table (A2)		_ Hydrogen Sulfide Odo		<ul><li> Sparsely Vegetated Concave Surface (B8)</li><li> Drainage Patterns (B10)</li><li> Moss Trim Lines (B16)</li></ul>				
Saturation (A3)		Oxidized Rhizosphere						
Water Marks (B1)		Presence of Reduced	=		Vater Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burro	· · ·			
Drift Deposits (B3)	_	_ Thin Muck Surface (C		· ·	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	Other (Explain in Rem	arks)	Stunted or Str	ressed Plants (D1)			
Iron Deposits (B5)				Geomorphic F	Position (D2)			
Inundation Visible on Aeria	I Imagery (B7)			Shallow Aquit	ard (D3)			
Water-Stained Leaves (B9)	)				phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
	Yes No		<del></del>					
	Yes No No	_	<u></u>					
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland F	lydrology Present	? Yes V No			
Describe Recorded Data (strea	m gauge, monitoring	well, aerial photos, prev	ious inspections), if ava	ilable:				
Remarks:								

Sampling Point: wleb108e_w	Samplin	a Point	wleb108e_v
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00	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Openies Aurese Aurestata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				
	=	Total Cove	r	Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
	20% of	total cover:_	0	ODL species
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				25 50
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =2
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9	0			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:	=	Total Cove	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Packera aurea	10	Yes	FACW	1 Toblematic Trydrophytic Vegetation (Explain)
2. Boehmeria cylindrica	10	Yes	FACW	1
3. Juncus effusus	5	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
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.				Hade All back account (account to a last a consultation
	25 _	Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 12.5		total cover:	5	or orze, and woody plante look than orze it tall.
0070 01 10101 00 1011	2070 01			Woody vine – All woody vines greater than 3.28 ft in
· (1 lot size.				height.
1				
2				
3				
4				Hadron bad's
5.				Hydrophytic Vegetation
	0 =	Total Cove	,	Present? Yes No
50% of total cover:		total cover:_	0	
30 % of total cover		lotal cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: wleb108e\_w

	Matrix			x Features	<del>-</del> 1	. 2		
inches) 0-12	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> CL	Remarks
0-12	10114/1	95	10113 4/0					
								-
	_							
			<del></del>					
	naontration D_Dan	lotion DM	L-Paduaad Matrix, MS		Sand Cr		<sup>2</sup> L continue F	DI - Doro Lining M-Motriy
	ndicators:	ielion, Riv	1=Reduced Matrix, MS	s=iviaskeu	Sand Gra	airis.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup>
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be		o (S8) (N	II DA 147		Coast Prairie Redox (A16)
Black His			Tolyvalde Be		. , .		140) (	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)	F	Piedmont Floodplain Soils (F19)
	Layers (A5)		<u>✓</u> Depleted Ma		_,		<u> </u>	(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b>		Redox Dark		6)		\	Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		•			Other (Explain in Remarks)
	rk Surface (A12)	` ,	Redox Depre					, ,
	lucky Mineral (S1) (L	RR N,	Iron-Mangan			_RR N,		
	147, 148)		MLRA 13					
_ Sandy G	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
_ Sandy R	edox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	3) w	etland hydrology must be present,
_ Stripped	Matrix (S6)		Red Parent N	1aterial (F2	21) <b>(MLR</b>	A 127, 147	) ur	nless disturbed or problematic.
estrictive L	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soi	l Present? Yes <u>✓</u> No
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
emarks:								
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emarks:								
emarks:								



Photo 1 Wetland data point wleb108e\_w facing east



Photo 2
Wetland data point wleb108e\_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis		Sampling Date: 3/31/2015			
Applicant/Owner: Dominion		Sampling Point: wleb108_u						
Investigator(s): TP, SA			on, Township, Range: No					
Landform (hillslope, terrace, etc.): hill s								
Subregion (LRR or MLRA): N					Datum: WGS 1984			
Soil Map Unit Name: Gilpin-Upshur silt	loams, 35 to 70	percent slopes, seve	rely eroded	NWI classification	ation: None			
Are climatic / hydrologic conditions on t	the site typical fo	or this time of year? Y	res No	(If no, explain in Re	emarks.)			
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or								
SUMMARY OF FINDINGS – A			•	•	,			
Hudrophytia Vagatation Propent?	Voc	No. 🗸						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No	Is the Sampled Area	.,	🗸			
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is	required; check	call that apply)		Surface Soil (	Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (						
High Water Table (A2)		Hydrogen Sulfide Od						
Saturation (A3)			es on Living Roots (C3)					
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burr				
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	_	Other (Explain in Rer	narks)	Geomorphic	ressed Plants (D1)			
Inundation Visible on Aerial Imag	ery (R7)			Shallow Aqui				
Water-Stained Leaves (B9)	Ciy (Di)				phic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral				
Field Observations:								
	No 🗸	Depth (inches):						
		Depth (inches):						
		Depth (inches):		lydrology Presen	t? Yes No			
(includes capillary fringe)								
Describe Recorded Data (stream gau	ge, monitoring w	veii, aeriai priotos, pre	vious irispections), ii ava	iliable.				
Remarks:								
-								

Sampling Point: wleb108_u
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00	Absolute	Dominant In	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Acer saccharum	30	Yes	FACU	That Are OBL, FACW, or FAC:2 (A)
2. Robinia pseudoacacia	10	Yes	FACU	
3. Betula alleghaniensis	10	Yes	FAC	Total Number of Dominant Species Across All Strata:  5 (B)
		-		Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40 (A/B)
6				, , ,
7.				Prevalence Index worksheet:
·-	50	Tatal Cause		Total % Cover of: Multiply by:
50% of total cover: 25		= Total Cove	r 10	OBL species $0 \times 1 = 0$
15	20% of	total cover:_		10 20
Sapiing/Shrub Stratum (Plot size:)				FACW species X Z =
1. Acer saccharum	10	Yes	FACU	FAC species x 3 =
2				FACU species50 x 4 =200
2				UPL species0 x 5 =0
3				70 250
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.57
6				1 Tevalence index = B/T(=
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	= Total Cove		
50% of total cover: 5	20% of	total cover:	2	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
1 Packera aurea	10	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
'		103	TAOW	
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				ContinuiChauth Weath plants and which is a
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	10			Herb – All herbaceous (non-woody) plants, regardless
_		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:5	20% of	total cover:_	2	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				Ĭ
		-		
3				
4				Hydrophytic
5				Vegetation
	0 .	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:_	0	
		total cover	<b>1</b>	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wleb108\_u

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicat	ors.)		
Depth	Matrix		Redo	x Features	3		_		_		
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarl	KS	
0-12	7.5YR 3/4	100					CL				
								-			
								-			
								-			
¹Type: C=C	oncentration, D=Deple	etion RM-R	educed Matrix MS		Sand Gr	ains	<sup>2</sup> Location: F	I =Pore Lin	ing M-Mat	riy	_
Hydric Soil		ouon, rawi–ra	caacca Matrix, Mc	J-Maskea	Carla Cr				roblematic		oils³:
Histosol			Dark Surface	(97)					(A10) <b>(MLR</b> .	-	
	pipedon (A2)		Polyvalue Be	. ,	oo (SS) <b>(N</b>	II D A 1 <i>1</i> 7			e Redox (A	•	
	stic (A3)		Polyvalue Be				170)	MLRA 1		10)	
	en Sulfide (A4)		Loamy Gleye	. ,	•	-1, 140)	-		47, 146) Ioodplain Sc	ile (F10)	
	d Layers (A5)		Depleted Mat		(2)			(MLRA 1		iis (F 19)	
	ick (A10) <b>(LRR N)</b>		Redox Dark \$		(C)		,	•	w Dark Surf	200 (TE12)	
	d Below Dark Surface	(Δ11)	Depleted Dar					•	ain in Rema	, ,	
	ark Surface (A12)	(Д11)	Redox Depre				_ `	Julei (Expi	alli ili iXeilia	iko)	
	fucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangan			DD N					
	147, 148)	ixix i <b>v</b> ,	MLRA 13		55 (1 12) <b>(</b>	LIXIX IV,					
	Gleyed Matrix (S4)		Umbric Surfa	•	MI DA 12	6 122\	3Inc	licators of k	nydrophytic	vocatation	and
	Redox (S5)		Piedmont Flo						ology must b	-	
	Matrix (S6)		Red Parent N						ped or probl		
	Layer (if observed):		Red Falelit N	ialeilai (i .	ZI) (IVILIX	H 127, 147	) ui	iless distuit	bed of probl	emanc.	
	Layer (ii observeu).										
Type:			<del>_</del>								<b>/</b>
	ches):						Hydric Soi	Present?	Yes	No _	<u> </u>
Remarks:											



Photo 1 Upland wleb108\_u facing east



Photo 2 Upland wleb108\_u facing west

Project/Site: Atlantic Coast Pipeline	:	City/C	County: Lewis County		Sampling Date: 11/13/2015			
Applicant/Owner: Dominion				State: WV	Sampling Point: wlea077e_w			
Investigator(s): GB, TN, DQ			on, Township, Range: No					
Landform (hillslope, terrace, etc.): S								
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Janelew chan	nery silt loam, steep	)		NWI classifi	cation: None			
Are climatic / hydrologic conditions of	on the site typical fo	or this time of year? Y	′es No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No			
Are Vegetation, Soil								
SUMMARY OF FINDINGS -								
Hydrophytic Vegetation Present?	Yes 🗸	No						
Hydric Soil Present?		No	Is the Sampled Area	V V	No			
Wetland Hydrology Present?	Yes 🗸		within a Wetland?	res	NO			
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)			
Primary Indicators (minimum of on	e is required; check	( all that annly)						
Surface Water (A1)	•	True Aquatic Plants (	R14)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od			atterns (B10)			
Saturation (A3)				_				
Water Marks (B1)		Presence of Reduced	-	<ul><li>Moss Trim Lines (B16)</li><li>Dry-Season Water Table (C2)</li></ul>				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bu				
Drift Deposits (B3)		Thin Muck Surface (0		-	/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer			Stressed Plants (D1)			
Iron Deposits (B5)				Geomorphic	Position (D2)			
Inundation Visible on Aerial Im	nagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutra	ll Test (D5)			
Field Observations:								
		Depth (inches):						
		Depth (inches):						
	s No	Depth (inches):	0 Wetland F	lydrology Prese	nt? Yes V No			
(includes capillary fringe)  Describe Recorded Data (stream of	gauge, monitoring v	vell, aerial photos, pre	vious inspections), if ava	ilable:				
,	,		•					
Remarks:								
saturated from 0-3"; perched water	table							

Sampling Point: wlea077e_w	Samplin	a Point	wlea077e_	_w
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00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Deminant
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				Openies / toross / tir etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cover		
50% of total cover:0	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Elaeagnus umbellata	5	Yes		FAC species30
2	-			FACU species0 x 4 =0
				UPL species0 x 5 =0
3				Column Totals: 100 (A) 180 (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =1.8
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
_				2 - Dominance Test is >50%
9	0	<del></del>		✓ 3 - Prevalence Index is ≤3.0¹
50% of total cover: 2.5		= Total Cover	1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
<u>-</u>	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5	40			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex scabrata	40	Yes	OBL	1 Toblematic Trydrophytic Vegetation (Explain)
2. Microstegium vimineum	25	Yes	FAC	1
3. Juncus effusus	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex lurida	10	No	OBL	
5. Agrimonia parviflora	5	No	FACW	Definitions of Four Vegetation Strata:
6. Dichanthelium clandestinum	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7. Epilobium coloratum	3	No No	FACW	height.
8. Packera aurea	2	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
	100	Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50		= Total Cover total cover:		or size, and woody plants less than 5.20 it tall.
00/001 total 00/01:	20% 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: 0		= Total Cover	0	
30 % of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				l l

Sampling Point: wlea077e\_w

Profile Des	cription: (Describe t	o the dep	th needed to docun	nent the ir	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features	,			
(inches) 0-2	Color (moist) 10YR 4/2	<u>%</u> 85	Color (moist) 10YR 6/6	<u>%</u> 15	Type <sup>1</sup> C	Loc <sup>2</sup>	<u>Texture</u> SIL	Remarks
2-8	7.5 YR 5/1	80	10YR 6/6	20	C		SICL	
8-10	10YR6/1	85	10YR 6/6	15	С	M	CL	rock at 10"
	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil				(O-1)				
Histoso	, ,		Dark Surface	, ,	(00) (1	U DA 447		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su	, ,	•	47, 148)	,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	,	-2)		<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat		c)		,	(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b> d Below Dark Surface	(//11)	Redox Dark S Depleted Dar		•			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ark Surface (A12)	(// 11)	Redox Depre		. ,		_ `	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			RRN		
	A 147, 148)	,	MLRA 13		,5 (1 1 <u>2</u> ) (			
	Gleyed Matrix (S4)		Umbric Surfa	-	MIRA 13	6. 122)	3Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
-	d Matrix (S6)		Red Parent N					nless disturbed or problematic.
Restrictive	Laver (if observed):				/ <b>(</b>		<del>,</del>	nose distanced of processingness
Type. CC	empacted soil							
Depth (in							Hydric Soi	Il Present? Yes No
Remarks:								



Photo 1 Wetland data point WLEA077e\_w facing east



Photo 2
Wetland data point WLEA077e\_w facing west

Project/Site: Atlantic Coast Pipe	eline		City/County: Lewis Coun	ity	Sampling Date: 11/13/2015				
Applicant/Owner: Dominion		_			Sampling Point: wlea077_u				
Investigator(s): GB, TN, DQ Section, Township, Range: No PLSS in this area									
Landform (hillslope, terrace, etc									
Cubracias (LDD as MLDA). N	.)	39 05540871	L	80 38334762	Datum: WGS 1984				
Subregion (LRR of MLRA): 1	hannery silt loam	steen	Long:		Datum:				
Soil Map Unit Name: Janelew o									
Are climatic / hydrologic condition									
Are Vegetation, Soil	, or Hydrology	significantly	disturbed? Are "N	ormal Circumstances	" present? Yes No				
Are Vegetation, Soil	, or Hydrology	naturally pro	oblematic? (If need	ded, explain any ansv	vers in Remarks.)				
SUMMARY OF FINDING	S – Attach si	te map showing	sampling point lo	cations, transec	ts, important features, etc.				
Hydrophytic Vegetation Preser	nt? Ves	No <b>✓</b>							
Hydric Soil Present?		No	Is the Sampled A		No				
Wetland Hydrology Present?	Yes	No 🗸	within a Wetland	? Yes	No				
Remarks:									
Opianu data point taken on a s	Upland data point taken on a strip mine bench for a saturated PEM wetland.								
HYDROLOGY									
Wetland Hydrology Indicator	rs:			Secondary Indi	cators (minimum of two required)				
Primary Indicators (minimum c	of one is required;	check all that apply)		Surface So	oil Cracks (B6)				
Surface Water (A1)		True Aquatic P		Sparsely V	egetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfic		_	Patterns (B10)				
Saturation (A3)			spheres on Living Roots	(C3) Moss Trim	Lines (B16)				
Water Marks (B1)		Presence of Re		· ·	n Water Table (C2)				
Sediment Deposits (B2)			duction in Tilled Soils (C6		urrows (C8)				
Drift Deposits (B3)		Thin Muck Surf			Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain	in Remarks)		Stressed Plants (D1)				
Iron Deposits (B5)	al les a e e e e (DZ)				ic Position (D2)				
Inundation Visible on Aeri					quitard (D3)				
Water-Stained Leaves (BS Aquatic Fauna (B13)	")			Microtopog	graphic Relief (D4)				
Field Observations:				1 AO-Neuti	ai lest (D3)				
Surface Water Present?	Vos No	Depth (inches)	١.						
Water Table Present?		Depth (inches)							
Saturation Present?		Depth (inches)		and Hydrology Pres	ent? Yes No				
(includes capillary fringe)	res inu_	Deptir (inches)	) vveu	and nydrology Fres	ent: resNo				
Describe Recorded Data (stream	am gauge, monito	ring well, aerial photo	os, previous inspections),	if available:					
December									
Remarks: no hydrology indicators presen	+								
The flydrology indicators present	ı								

Sampling	Point: wlea077_	_u
Sambilliu	POILL	_~

•	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Robinia pseudoacacia	10	Yes	FACU	That Are OBL, FACW, or FAC:2 (A)
2. Fraxinus americana	10	Yes	FACU	Total Number of Dominant
3. Liriodendron tulipifera	5	No	FACU	Species Across All Strata: 7 (B)
4. Juglans nigra	5	No	FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 28.57142857 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove	_	
50% of total cover:15	20% of	total cover:_	6	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACVV species X Z =
1. Elaeagnus umbellata	8	Yes		FAC species x 3 =
2. Fraxinus americana	4	Yes	FACU	FACU species x 4 =
3. Rosa multiflora	4	Yes	FACU	UPL species x 5 =
4. Lindera benzoin	3	No	FAC	Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.39
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	19	= Total Cove		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 9.5	20% of	total cover:_	3.8	
Herb Stratum (Plot size:)				data in Remarks or on a separate sheet)
1. Dichanthelium clandestinum	40	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Verbesina alternifolia	30	Yes	FAC	
3. Cirsium arvense	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Glechoma hederacea	5	No	FACU	
5.				Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	80			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 40		= Total Cove		of size, and woody plants less than 3.28 ft tall.
0070 01 total 00001.	20% of	total cover:_	10	Woody vine – All woody vines greater than 3.28 ft in
voody vine otratum (1 lot size.				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cove	r	Present? Yes No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlea077\_u

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absenc	e of indicators.)
Depth Matrix	Redox Features		
(inches)         Color (moist)         %           0-3         10YR 3/3         100	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture SCL	Remarks
3-8 10YR 4/3 100		SCL	
8-13 10YR 5/3 100		SCL	rock at 13"
	=Reduced Matrix, MS=Masked Sand Grains.		- PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indio	cators 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 (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)	3,	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		dicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14:		etland hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	) u	nless disturbed or problematic.
Restrictive Layer (if observed):			
Type: none  Depth (inches):	<u> </u>	Hydric So	il Present? Yes No
	<del></del>	,	
Remarks:			



Photo 1 Upland data point WLEA077\_u facing west



Photo 2
Upland data point WLEA077\_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Lewis County		Sampling Date: 8/5/2016		
Applicant/Owner: Dominion					Sampling Point: wlee001e_w		
Investigator(s): CG, AS Section, Township, Range: No PLSS in this area							
Landform (hillslope, terrace, etc.): terra							
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Janelew channer	y silt loam, stee	p		NWI classific	cation: PEM		
Are climatic / hydrologic conditions on t	he site typical f	or this time of year? Y	/es No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances"	present? Yes No		
Are Vegetation, Soil, or							
SUMMARY OF FINDINGS – A							
Hydrophytic Vegetation Present?	Ves V	No					
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V	No		
Wetland Hydrology Present?		No	within a Wetland?	Yes	NO		
Remarks:			1				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is	required; chec	k all that apply)		Surface Soil	Cracks (B6)		
✓ Surface Water (A1)		True Aquatic Plants (		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	<u>~</u>	Hydrogen Sulfide Od	lor (C1)	Drainage Pa	atterns (B10)		
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim L	ines (B16)		
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)	_	Thin Muck Surface (0	C7)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rer	marks)	Stunted or S	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-Neutra	l Test (D5)		
Field Observations:							
		_ Depth (inches):					
Water Table Present? Yes _	No	Depth (inches):					
Saturation Present? Yes _		Depth (inches):		lydrology Prese	nt? Yes 🗸 No		
(includes capillary fringe)  Describe Recorded Data (stream gau	ge, monitoring	well, aerial photos, pre	evious inspections), if ava	nilable:			
Remarks:							

Sampling	Point: wlee001e_	W
Sambilliu	POILL	٠.,

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?		Number of Dominant Species
1. none	0			That Are OBL, FACW, or FAC:3 (A)
2				( )
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	0	OBL species0 x 1 =0
Sapling/Shrub Stratum (Plot size: 15 )				FACW species80
1. none	0			FAC species 25 x 3 = 75
				FACU species 0 x 4 = 0
2				
3				UPL species X 5 =
4				Column Totals: (A) (B)
5				2.22
				Prevalence Index = B/A =2.23
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cove	r	<del></del>
50% of total cover:0	20% of	total cover:_	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 )				data in Remarks or on a separate sheet)
1 Juncus effusus	30	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Eleocharis tenuis	25	Yes	FACW	
3. Poa sylvestris	25	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Juncus tenuis	20		FAC	be present, unless disturbed or problematic.
T•		No_		Definitions of Four Vegetation Strata:
5. Echinochloa crus-galli	5	No	FAC	Total Mandaglada analyticasia of (7.0 as)
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
0				Sapling/Shrub – Woody plants, excluding vines, less
10				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				m) tall.
11	405			Herb – All herbaceous (non-woody) plants, regardless
50.5		= Total Cove	~ 4	of size, and woody plants less than 3.28 ft tall.
50% of total cover:52.5	20% of	total cover:_	21	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1. <u>none</u>	0			
2.				
3.				
4				Hydrophytic
5				Vegetation Present?  Yes No
		= Total Cove	^	Present? Yes No No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sl	heet.)			

Sampling Point: wlee001e\_w

Profile Des	cription: (Describe t	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features	5			
(inches)	Color (moist)	<u>%</u>	Color (moist)	- <u>%</u> 5	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SICL	Remarks
0-1	10YR 3/2	95	10YR 3/6		C	PL		·
1-2	10YR 2/1	95	10YR 3/6	5	C	PL ———	SICL	<u></u> -
2-12	N 5/	70	10YR 3/6	30	С	PL/M	SICL	
								-
						· <del></del>		·
								<del></del>
	·							
<sup>1</sup> Type: C=C	Concentration, D=Deple	etion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
	Indicators:	•	,					cators for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Dark Surface	e (S7)			2	2 cm Muck (A10) <b>(MLRA 147)</b>
	pipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		<u>✓</u> Loamy Gleye		F2)		!	Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark		·e)		,	(MLRA 136, 147) Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dai					Other (Explain in Remarks)
	ark Surface (A12)	( ,	Redox Depre					(=,
Sandy I	Mucky Mineral (S1) (L	RR N,	Iron-Mangan			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	vialeriai (F.	ZI) (IVILK	A 121, 141	) ui	nless disturbed or problematic.
Type. C	ompacted soil							
	nches): <u>12</u>						Hydric Soi	il Present? Yes No
Remarks:							Tiyano oo	100 100
ixemaiks.								



Wetland data point wlee001e\_w facing west



Wetland data point wlee001e\_w facing south

Applicant/Owner: Dominion  Setter, W Sampling Point: Weet001 us Investigator(s): CG, AS  Settion, Township, Range. No PLSS in this area  Load Fellef (concave, convex, none): Gornex  Sold Map Juli Name: Jetnetiew channery sill town, steep  Load Fellef (concave, convex, none): Gornex  Sold Map Juli Name: Jetnetiew channery sill town, steep  No Load Fellef (concave, convex, none): Gornex  No Long: 99.37175733  Datum; WGS 1984  No Long: 99.37175732  No L	Project/Site: Atlantic Coast Pipeline	City/County: L	ewis County	Sampling Date: 8/5/2016			
Section   Township   Range   No PLSS in this area	Applicant/Owner: Dominion		State: WV	Sampling Point: wlee001_u			
Landform (hillslope, terrace, etc.): terrace							
Subregion (LRR or MLRA): N							
Soil Map Unit Name. Jamelew channery sill loam, steep  Are climatic / hydrologic conditions on the site typical for this time of year? Yes							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed?	Soil Map Unit Name: Janelew channery silt loam	ı, steep	NWI class	ification: UPL			
Are Vegetation, Soil, or Hydrology	Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrology	Are Vegetation , Soil , or Hydrolog	significantly disturbed?	Are "Normal Circumstances	s" present? Yes No			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophylic Vegetation Present? Yes No							
HYDROLOGY  Wetland Hydrology Present? Yes No V within a Wetland? Yes No V No							
HYDROLOGY  Wetland Hydrology Present? Yes No V within a Wetland? Yes No V No	Hydrophytic Vegetation Present? Ves	No. V					
Wetland Hydrology Present? Yes No V  Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (Ar1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Water Marks (B1)  Presence of Reduced Iron (C4)  Dyr.Season Water Table (C2)  Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Trib Agal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Present? Yes No V Depth (inches):  Saturation Present? Yes No V Depth (inches):  Satur		No. 4		No. <b>V</b>			
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)  Water Marks (B1)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Irosent?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:			a wetiand? Yes	No			
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:       Ves       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No<							
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Prift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Saturation (A1)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dray-Season Water Table (C2)  Crayfish Burrows (C8)  Crayfish Burrows (C8)  Stunted or Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Semarks:	HYDROLOGY						
Surface Water (A1)	Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)			
High Water Table (A2)	Primary Indicators (minimum of one is required	; check all that apply)	Surface S	oil Cracks (B6)			
Saturation (A3)	Surface Water (A1)	True Aquatic Plants (B14)	Sparsely \				
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) Aquatic Fauna (B13) FAC-Neutral Test (D5) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sturface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):							
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes							
Drift Deposits (B3)							
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) Shallow Aquitard (D3) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Aquatic Fauna (B13) FAC-Neutral Test (D5) Factoreactions:  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 Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Personal Present? Yes No Pe							
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Remarks)		` ,			
Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Poscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:							
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							
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:							
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 inspections), if available:  Remarks:							
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 inspections), if available:  Remarks:		Depth (inches):					
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	Saturation Present? Yes No		Wetland Hydrology Pres	sent? Yes No			
Remarks:		oring well, aerial photos, previous ins	pections), if available:				
	(2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	. J . , , , ,	, , , , , , , , , , , , , , , , , , , ,				
no hydrology							
	no hydrology						

Sampling	Point: wlee001_	u
Januania	i Ollit. –	•

00	Absolute	Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. none				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Operics / toross / till othata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cove		
50% of total cover:0	20% of	total cover:_	0	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. none	0			FAC species0 x 3 =0
2				FACU species95
		-		UPL species10 x 5 =50
3				Column Totals: 105 (A) 430 (B)
4				Column rotals (A) (B)
5				Prevalence Index = B/A =4.09
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	^			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		= Total Cove	r 0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	4-			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Trifolium repens	45	Yes	FACU	1 Toblematic Trydrophytic Vegetation (Explain)
2. Trifolium pratense	15	Yes	FACU	1
3. Ambrosia artemisiifolia	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solanum carolinense	10	No	FACU	
5 Poa pratensis	10	No	FACU	Definitions of Four Vegetation Strata:
6. Plantago lanceolata	5	No	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7. Daucus carota	5	No	UPL	height.
8. Achillea millefolium	5	No	FACU	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 Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.5		total cover:	21	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
vvocay vine stratum (i lot size.	0			height.
1. none				
2				
3				
4				
5.		·		Hydrophytic
J	0	Tatal Cause		Vegetation Present? Yes No
50% of total cover: 0		= Total Cove	r 0	· · · · · · · · · · · · · · · · · · ·
30 % of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlee001\_u

	cription: (Describe t	o the depth				or confirm	n the abse	ence of indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redo: Color (moist)	K Features	SType <sup>1</sup>	Loc²	Textur	re Remarks
0-10	10YR 4/3	100	Color (moist)		туре	LOC	SICL	
								<u>-</u>
			_		·			
	· -					<del></del>	-	
					-	· ——		
	· <del></del>				-		-	
					-			<del></del>
Type: C=C	Concentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators:						In	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	/ILRA 147.	. 148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su		. , .		_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, <b>-,</b>		Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat		/		_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	(A11)	Depleted Dar	•	,		_	Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depre				_	
	Mucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N.		
	A 147, 148)	•	MLRA 13		· / ·	•		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	86, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	d Matrix (S6)		Red Parent N					unless disturbed or problematic.
	Layer (if observed):			(-	, (	,	1	
Type: gr	avel							
Donth /ir	nches): 10		<del></del>				Liveleia	Sail Brasant2 Van Na V
	iches).						пуапс	Soil Present? Yes No
Remarks:								
efusal at 10	, disturbed soil from ro	ad grading						



Upland data point wlee001\_u facing north



Upland data point wlee001\_u facing south

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis		Sampling Date: 5/15/2015			
Applicant/Owner: DOMINION					Sampling Point: wlec005e_w			
		Section	on, Township, Range: No	PLSS in this area	<u> </u>			
Landform (hillslope, terrace, etc.): Roadsid	de Ditch	Local rel	ief (concave, convex, no	ne): none	Slope (%): <sup>5</sup>			
Subregion (LRR or MLRA): N								
Soil Map Unit Name: Janelew channery si	It loam, stee	ер		NWI classific	cation: None			
Are climatic / hydrologic conditions on the	site typical f	or this time of year? Y	'es No	(If no, explain in R	temarks.)			
Are Vegetation, Soil, or Hy	drology	significantly distur	bed? Are "Norma	l Circumstances" ¡	oresent? Yes No			
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Hydrophytic Vegetation Present?	Yes 🗸	No						
Hydric Soil Present?	Yes 🗸	No	Is the Sampled Area within a Wetland?	Vos V	No			
Wetland Hydrology Present?		No	within a wettand:	163				
Wetland located within a ditch								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is re	quired; chec	ck all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)		True Aquatic Plants (		Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa				
Saturation (A3)			es on Living Roots (C3)	Moss Trim L				
Water Marks (B1)		Presence of Reduced	, ,		Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur				
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Rer	narks)		tressed Plants (D1) Position (D2)			
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu				
Water-Stained Leaves (B9)	(=:)				aphic Relief (D4)			
Aquatic Fauna (B13)				✓ FAC-Neutral	• • • •			
Field Observations:					. ,			
Surface Water Present? Yes	No	_ Depth (inches):						
		Depth (inches):						
		_ Depth (inches):		Hydrology Preser	nt? Yes V No			
Describe Recorded Data (stream gauge,			vious inspections), if ava	ailable:				
No saturated soils at the time of survey w	thin 24 inch	es						
Remarks: Wetland hydrology present								
Wettand Hydrology present								

Sampling Point: wlec005e_w
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	Absolute	Dominant I	ndicator	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 New horse ( Descious)
3				Total Number of Dominant Species Across All Strata: 2 (B)
4				(B)
5				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5		-		That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
0	:	= Total Cove	er O	OBL species x 1 = 50
50% of total cover: 0	20% of	total cover:_		20 40
Sapling/Shrub Stratum (Plot size:)				FACW species x z =
1				FAC species X3 = X
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals:
5				
6				Prevalence Index = B/A =1.4
				Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 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	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5	40			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Carex Iurida	40	Yes	OBL	Troblemane Tryarepriyate Vegetation (Explain)
2. Juncus effusus	20	Yes	FACW	Indicators of hydric coil and watland hydrology must
3. Eleocharis palustris	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Rumex crispus	5	No	FAC	Definitions of Four Vegetation Strata:
5				Seminorio di Todi Vegetation ettata.
6.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				noight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
27.5		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>37.5</u>	20% of	total cover:_	15	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Heater-heat's
5.				Hydrophytic Vegetation
	0	= Total Cove	ar	Present? Yes No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate si	_			
Tremains. (moduce photo humbers here of on a separate si	noct.)			

Sampling Point: wlec005e\_w

Profile Des	cription: (Describe	to the de	pth needed to docun	nent the i	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	k Feature		. 2		
(inches)	Color (moist)	<u>%</u> 95	Color (moist) 10 YR 5/8	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	<u>Texture</u> SL	Remarks
0-10	2.5 Y 4/1	95	10 18 5/8			PL/M	SL	
10-16	2.5 Y 6/6	100					LFS	Layer contains about 40% gravel
			· <del></del>					
		-	· <del></del>					_
Type: C=C	Concentration, D=Dep	letion, RM		=Masked	d Sand Gr	ains.	<sup>2</sup> Location: F	- PL=Pore Lining, M=Matrix.
	Indicators:						Indic	cators for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Dark Surface	(S7)			:	2 cm Muck (A10) <b>(MLRA 147)</b>
Histic E	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black H	listic (A3)		Thin Dark Su	rface (S9)	) (MLRA 1	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix (	(F2)			Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		✓ Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm M	uck (A10) (LRR N)		Redox Dark S	Surface (F	<del>-</del> 6)		,	Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Dar	k Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre				<u> </u>	,
	Mucky Mineral (S1) (L	LRR N.	Iron-Mangane			LRR N.		
	A 147, 148)	,	MLRA 130		00 (i i=) <b>(</b>			
	Gleyed Matrix (S4)		Umbric Surfa	-	(MI RA 13	86 122)	3In	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
-			Red Parent M					
	d Matrix (S6)  Layer (if observed):		Red Parent N	iateriai (F	ZI) (WILK	A 121, 141	) ui	nless disturbed or problematic.
	Layer (ii observed).	•						
Type:								
Depth (in	nches):						Hydric So	il Present? Yes No
Remarks:								
lydric soils p	present							



Photo 1 Wetland data point wlec005e\_w facing north



Photo 2
Wetland data point wlec005e\_w facing south

Project/Site: Atlantic Coast Pipeline		City/C	county: Lewis		Sampling Date: 5/15/2015	
Applicant/Owner: DOMINION					Sampling Point: wlec005_u	
Investigator(s): Team C		Section	on, Township, Range: No	PLSS in this area	1	
Landform (hillslope, terrace, etc.): Hill S						
Subregion (LRR or MLRA): N						
Soil Map Unit Name: Janelew channer	y silt loam, steep	)		NWI classific	ation: None	
Are climatic / hydrologic conditions on t	he site typical fo					
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No	
Are Vegetation, Soil, or						
SUMMARY OF FINDINGS – A			•	•	•	
Hydrophytic Vegetation Present?	Yes	No. 🗸			<del>-</del>	
Hydric Soil Present?		No	Is the Sampled Area		🗸	
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No	
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:					tors (minimum of two required)	
Primary Indicators (minimum of one is				Surface Soil		
Surface Water (A1)		True Aquatic Plants (		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa		
Saturation (A3)			• ,	Moss Trim Li		
Water Marks (B1)		Presence of Reduced			Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri		
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (C Other (Explain in Rer			sible on Aerial Imagery (C9) tressed Plants (D1)	
Iron Deposits (B5)		Otilei (Explain in Rei	ilaiks)	Geomorphic	, ,	
Inundation Visible on Aerial Imag	erv (B7)			Shallow Aqui		
Water-Stained Leaves (B9)	0.7 (2.7				aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutral		
Field Observations:						
Surface Water Present? Yes	No 🗸	Depth (inches):				
		Depth (inches):				
		Depth (inches):		lydrology Presen	it? Yes No	
(includes capillary fringe)  Describe Recorded Data (stream gaue	ne monitoring w	vell aerial photos pre	vious inspections) if ava	ilahle:		
Describe Necorded Data (circum gad	go, mormoring v	von, acriai priotos, pro	vious inspections), ii ava	illabio.		
Remarks:						
No wetland hydrology present						

Sampling	Point: wlec005_u
Sambiinu	Point. """

00	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1		. <u></u> -		That Are OBL, FACW, or FAC:0 (A)
2				T. 111 1 15 15 15
3		·		Total Number of Dominant Species Across All Strata:  1 (B)
		·		Opedies Across All Strata.
4		· <del></del> -		Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0 (A/B)
6		. <u> </u>		Prevalence Index worksheet:
7		. <u> </u>		
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species5 x 3 =15
		· <del></del> -		FACU species 70 x 4 = 280
2		· <del></del> -		UPL species 0 x 5 = 0
3		· <del></del> -		75 205
4		. <u> </u>		Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.93
6				Trevalence index = B/T(=
7			_	Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9		-		2 - Dominance Test is >50%
J	^	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
_	20 /6 01	total cover		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5 )  1 Solidago altissima	70	Vaa	FACIL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
··		Yes	FACU	
2. Xanthium strumarium	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6		. <u></u> -		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		·		
11	75	· <del></del> -		Herb – All herbaceous (non-woody) plants, regardless
37.6		= Total Cover	15	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>37.5</u>	20% of	total cover:	13	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1		. <u> </u>		
2		<u></u>		
3				
4		· <u></u>		
	-	·		Hydrophytic
5	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.)			

Sampling Point: wlec005\_u

	cription: (Describe	to the debt		x Feature		or commit	i iiie ausel	noo or mulcators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>x Feature:</u> %	s _Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-16	2.5 Y 6/6	50	Color (moist)		турс		SL	Kemana
	· .	· <del></del>						
	10 YR 4/2	50					SL	
	· .							<u> </u>
	• •							
	· ·							
								<u> </u>
	-				-	· ——		<del></del>
	· -							
<sup>1</sup> Type: C=C	Concentration, D=Dep	letion. RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
	Indicators:		. toddood maint, me	· · · · · · · · · · · · · · · · · · ·		<u> </u>		dicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(97)				_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		CO (CO) /8	/II R A 1/17	148\	Coast Prairie Redox (A16)
			Polyvalue Be				140)	
	listic (A3)			. ,	•	141, 140)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		r2)		_	Piedmont Floodplain Soils (F19)
	ed Layers (A5)		Depleted Mat		-c\			(MLRA 136, 147)
	uck (A10) (LRR N)	- (044)	Redox Dark S				_	_ Very Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Dar				_	Other (Explain in Remarks)
	Park Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	LRR N,	Iron-Mangan		es (F12) <b>(</b>	LRK N,		
	A 147, 148)		MLRA 13	•				3
	Gleyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	d Matrix (S6)		Red Parent N	1aterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric S	Soil Present? Yes No
Remarks:	,						,	
lo hydric so	il nrecent							
io riyuric so	ii present							



Photo 1 Upland data point wlec005\_u facing south



Photo 2 Upland data point wlec005\_u facing west

Project/Site: SERP	City/C	ounty: Lewis	Sampling Date: 6/20/2014
Applicant/Owner: Domimion		State	e: WV Sampling Point: WLEB012e_w
Investigator(s): TP	Section	on, Township, Range: No PLSS	in this Area
Landform (hillslope, terrace, etc.): drainage			
Subregion (LRR or MLRA): N			
Soil Map Unit Name: Water		N\	VI classification: None
Are climatic / hydrologic conditions on the si			
Are Vegetation, Soil, or Hydi	rology significantly distur	bed? Are "Normal Circum	nstances" present? Yes No
Are Vegetation, Soil, or Hydi			
			ansects, important features, etc.
Hydrophytic Vegetation Present?	Yes ✔ No		
	Yes No	Is the Sampled Area	
	Yes V No	within a Wetland?	Yes No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Soconi	dary Indicators (minimum of two required)
Primary Indicators (minimum of one is requ	uired: check all that apply)		urface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (		parsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Od		rainage Patterns (B10)
Saturation (A3)	✓ Oxidized Rhizospher		oss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced	- · · · · · · · · · · · · · · · · · · ·	ry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction		rayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C	Sa	aturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer	narks) St	unted or Stressed Plants (D1)
Iron Deposits (B5)		Ge	eomorphic Position (D2)
Inundation Visible on Aerial Imagery (I	B7)		nallow Aquitard (D3)
Water-Stained Leaves (B9)			icrotopographic Relief (D4)
Aquatic Fauna (B13)		<u><b>V</b></u> FA	AC-Neutral Test (D5)
Field Observations:			
	No Depth (inches):	2	
	_ No Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydrolo	gy Present? Yes No
Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:			

Sapling/Shrub Stratum (Plot size:	0% of total cover:0	0 20% of	= Total Cover:	0	Number of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:	0% of total cover:0 15)	0 20% of	= Total Cover:	0	Species Across All Strata:       1       (B)         Percent of Dominant Species That Are OBL, FACW, or FAC:       100       (A/E         Prevalence Index worksheet:         Total % Cover of:       Multiply by:         OBL species       100       x 1 = 100         FACW species       0       x 2 = 0         FAC species       0       x 3 = 0         FACU species       0       x 4 = 0         UPL species       0       x 5 = 0         Column Totals:       100       (A)       100         Prevalence Index = B/A = 1       1         Hydrophytic Vegetation Indicators:         ✓ 1 - Rapid Test for Hydrophytic Vegetation
	0% of total cover: 0 15	0 20% of	= Total Cover:	0	That Are OBL, FACW, or FAC:       100       (A/E         Prevalence Index worksheet:         Total % Cover of:       Multiply by:         OBL species       100       x 1 = 100         FACW species       0       x 2 = 0         FAC species       0       x 3 = 0         FACU species       0       x 4 = 0         UPL species       0       x 5 = 0         Column Totals:       100       (A)         Prevalence Index       = B/A = 1         Hydrophytic Vegetation Indicators:         ✓       1 - Rapid Test for Hydrophytic Vegetation
apling/Shrub Stratum (Plot size:	0% of total cover: 0 15 )	0 20% of	= Total Cover:	0	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species $100$ $x 1 = 100$ FACW species $0$ $x 2 = 0$ FAC species $0$ $x 3 = 0$ FACU species $0$ $x 4 = 0$ UPL species $0$ $x 5 = 0$ Column Totals: $100$ $(A)$ Prevalence Index = $B/A = 1$ Hydrophytic Vegetation Indicators: $\checkmark$ 1 - Rapid Test for Hydrophytic Vegetation
50 sapling/Shrub Stratum (Plot size:	0% of total cover: 0 15 )	0 20% of	= Total Cover total cover:	0	Total % Cover of:         Multiply by:           OBL species         100         x 1 = 100           FACW species         0         x 2 = 0           FAC species         0         x 3 = 0           FACU species         0         x 4 = 0           UPL species         0         x 5 = 0           Column Totals:         100         (A)         100           Prevalence Index = B/A = 1         1           Hydrophytic Vegetation Indicators:           ✓ 1 - Rapid Test for Hydrophytic Vegetation
50 Sapling/Shrub Stratum (Plot size:	0% of total cover: 0 15 )	20% of	total cover:	0	OBL species $\begin{array}{c cccc} 100 & x & 1 & 100 \\ \hline FACW species & 0 & x & 2 & 0 \\ \hline FAC species & 0 & x & 3 & 0 \\ \hline FAC u species & 0 & x & 4 & 0 \\ \hline UPL species & 0 & x & 5 & 0 \\ \hline Column Totals: & 100 & (A) & 100 \\ \hline \\ \hline Prevalence Index & = B/A & 1 \\ \hline \\$
capling/Shrub Stratum (Plot size:					FACW species $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$
					FACW species $\begin{array}{cccccccccccccccccccccccccccccccccccc$
					FAC species $\begin{array}{c c} & & & & & & & & & & \\ \hline FACU species & & & & & & & & \\ \hline UPL species & & & & & & & & \\ \hline Column Totals: & & & & & & & \\ \hline \begin{array}{c c} & & & & & & & & \\ \hline \end{array}$
					FACU species $\begin{array}{c} & \times 4 = \\ & \times 5 $
					Column Totals: $\frac{100}{100}$ $\frac{x}{(A)}$ $\frac{5}{100}$ $\frac{1}{(B)}$ Prevalence Index = B/A = $\frac{1}{(B)}$ Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
					Prevalence Index = B/A = 1  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
					Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
5  5					Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
/. 					1 - Rapid Test for Hydrophytic Vegetation
s s					
9					2 - Dominance Test is >50%
		0			
		-	= Total Cover		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
50	0% of total cover:0		total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
_	5 )		_		data in Remarks or on a separate sheet)
Typha latifolia		80	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Carex lupulina		10	No	OBL	
Leersia oryzoides		10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
i.		•		-	be present, unless disturbed or problematic.
i				-	Definitions of Four Vegetation Strata:
).				-	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
-					more in diameter at breast height (DBH), regardless o height.
' 3.					neight.
		· -			Sapling/Shrub – Woody plants, excluding vines, less
)					than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
0					m) tail.
1		100			Herb – All herbaceous (non-woody) plants, regardless
EC	0% of total cover 50		= Total Cover total cover:		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:	20	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
					height.
		· - <u></u>			
).					
3.					
ł. <u> </u>					Hydrophytic
					Vegetation Present? Yes No
	0		= Total Cover	0	Present? Yes No No
	0% of total cover:0		total cover:		
Remarks: (Include photo numbers	here or on a separate s	sheet.)			

Sampling Point: WLEB012e\_w

Depth	Matrix			K Features	3	. 2	_	
inches) 0-12	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 10YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup>	Texture SICL	Remarks
0-12	10113 4/1		10114/0					
					-			
					-			
								-
					-			_
				<del></del> .			2	
	oncentration, D=Dep Indicators:	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
			5 1 6 7	(07)				ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface		(00) (1		· · · · · · · · · · · · · · · · · · ·	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)	_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)		F	Piedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) <b>(LRR N)</b>		✓ Depleted Mat  — Redox Dark S		(C)			(MLRA 136, 147) /ery Shallow Dark Surface (TF12)
	d Below Dark Surface	ο (Δ11)	Redox Dark s	•				Other (Explain in Remarks)
	ark Surface (A12)	c (ATT)	Redox Depre				_ `	other (Explain in Nemarks)
	Aucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangane			I RR N		
	A 147, 148)	-1111 14,	MLRA 136		33 (1 12) <b>(</b>	LIXIX IV,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	6 122)	<sup>3</sup> Inc	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent M					lless disturbed or problematic.
	Layer (if observed):				/ <b>(</b>	,, , <u>=</u> ,, , ,,	, <u> </u>	need distanced of processingness
Туре:	, ,							
Depth (in	ches).						Hydric Soil	I Present? Yes No
	ones)						Tiyano con	11103CHC 103 NO
emarks:								



Photo 1 Wetland data point WLEB012e\_w facing east



Photo 2
Wetland data point WLEB012e\_w facing south

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/20/2014
Applicant/Owner: Dominion					Sampling Point: WLEB012_u
Investigator(s): TP					
Landform (hillslope, terrace, etc.): hillslo					
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Vandalia silt loam	, 15 to 25 perce	ent slopes		NWI classific	cation: None
Are climatic / hydrologic conditions on the	ne site typical fo	or this time of year? Y	′es No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or	Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil, or					
SUMMARY OF FINDINGS – A	-				
Hydrophytic Vegetation Present?	Yes	No. V			
Hydric Soil Present?		No	Is the Sampled Area	.,	🗸
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is	required; checl	k all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		True Aquatic Plants (	(B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Pa	tterns (B10)
Saturation (A3)			• ,	Moss Trim L	ines (B16)
Water Marks (B1)		Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (0			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	-	Other (Explain in Rer	marks)	· <del></del>	tressed Plants (D1)
Iron Deposits (B5)	···· (DZ)				Position (D2)
Inundation Visible on Aerial Image	яу (Б <i>Г)</i>			Shallow Aqu	
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>				FAC-Neutral	aphic Relief (D4)
Field Observations:				1 //0 / 10 (10)	1631 (150)
	No.	Depth (inches):			
		Depth (inches):			
		Depth (inches):		lydrology Preser	nt? Yes No
(includes capillary fringe)					N: 163 NO
Describe Recorded Data (stream gaug	je, monitoring v	vell, aerial photos, pre	evious inspections), if ava	ilable:	
Remarks:					
Tromano.					

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

\_\_)

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

50% of total cover: \_\_\_35

50% of total cover:

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

30

Sapling/Shrub Stratum (Plot size: 15 )

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

1. Viburnum prunifolium

2 Carya ovata

3. Prunus serotina

1. Carya ovata

Absolute Dominant Indicator

% Cover Species? Status

Yes

= Total Cover 20% of total cover:

Yes

10

Yes

No

70 = Total Cover 20% of total cover: 14

10 Yes FACU

10 = Total Cover 20% of total cover: 2

0 = Total Cover

20% of total cover:

**FACU** 

FACU

**FACU** 

;	Sampling	Point: V	VLEB012_u	
Dominance Tes	t workshee	t:		
Number of Domi			0	(A)
Total Number of Species Across A			4	(B)
Percent of Domir That Are OBL, F			0	(A/B)
Prevalence Inde	x workshe	et:		
Total % Cov	er of:	Mu	Itiply by:	
OBL species	0	x 1 =	0	
FACW species	0	-	0	_
FAC species	0	x2=_ x3=	0	_
· ·	150	_	600	_
FACU species	0	x 4 = _	0	_
UPL species	150	x 5 = _	600	(D)
Column Totals:		_ (A) _		(B)
Prevalence	Index = B/	A =	4	
Hydrophytic Ve				
1 - Rapid Te	_			
2 - Dominan	•	. ,	getation	
3 - Prevalen				
4 - Morpholo			Provido our	norting
	emarks or o			porting
Problematic		•		in)
Problematic	пушорпуш	vegetat	юн (Ехріа	111)
<sup>1</sup> Indicators of hyd be present, unles	ss disturbed	or proble	ematic.	must
Definitions of Fe	our vegetat	ion Stra	ta:	
Tree – Woody pl more in diameter height.				
Sapling/Shrub - than 3 in. DBH a m) tall.				
Herb – All herba				rdless
Woody vine – A height.	ll woody vin	es greate	er than 3.28	3 ft in
Hydrophytic Vegetation Present?	Yes	No	, <u> </u>	

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

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

Sampling Point: WLEB012\_u

Depth (inches)	Profile Desc	ription: (Describe t	the depth i	needed to docun	nent the i	ndicator	or confirm	the absence	of indicat	ors.)		
0-12         7.5YR 4/4         100         SCL				Redo		3		_				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)  Histoc Epipedon (A2)  Black Histic (A3)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (F7)  Thick Dark Surface (A11)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 147)  MLRA 136, 147, 148)  MLRA 136, 147, 148)  MLRA 136, 147, 148)  MLRA 136, 147, 148)  MLRA 136, 147)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox C(55)  Piedmont Floodplain Soils (F19) (MLRA 136, 142)  Sandy Redox (A15)  Sandy Redox (A15)  Sandy Redox (A15)  Red Parent Material (F21) (MLRA 136, 147)  MERA 136, 147)  Pidmicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Frestrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No	(inches)			Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>			Remark	(S	
Hydric Soil Indicators:    Histosol (A1)	0-12	7.5YR 4/4	100					SCL				
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)						-						
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)						-						
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)						-			-			
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)												
Hydric Soil Indicators:    Histosol (A1)	¹Type: C=Co	oncentration D=Denk	etion RM=Re	educed Matrix MS	S=Masked	Sand Gra	ains	<sup>2</sup> Location: P	I =Pore Lin	ing M=Mati	rix	
Histosol (A1)			50011, 1001—100	adood matrix, me	<del>)_MacNea</del>	Cana Cit	AII 10.					oils³:
Histic Epipedon (A2)	-			Dark Surface	(\$7)						-	
			•		. ,	ce (S8) <b>/N</b>	II RA 147			, ,	•	
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3)  Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)  Redox Depressions (F12) (LRR N, MLRA 136, 122)  Jiron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Jiron-Manganese Masses (F12) (MLRA 136, 122) Jiron-Manganese Masses (F12) (MLRA 148) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed):  Type: Depth (inches):  Hydric Soil Present? Yes No			•					0/			· • <i>)</i>	
Stratified Layers (A5)			•		, ,	•	, 170)				ils (F10)	
2 cm Muck (A10) (LRR N)			-			· <i>L</i> )		<u> </u>			113 (1 13)	
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, MLRA 147, 148) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators 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):			-			(6)		1	•		ace (TF12)	
Thick Dark Surface (A12)			(A11)						•		, ,	
Sandy Mucky Mineral (S1) (LRR N,								_	(=:-		,	
MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Restrictive Layer (if observed):  Type:  Depth (inches):  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No			RR N.				LRR N,					
Sandy Gleyed Matrix (S4)						· / •	•					
Sandy Redox (S5)					•	MLRA 13	6. 122)	<sup>3</sup> Inc	licators of h	vdrophytic	vegetation	and
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No			·-								-	
Restrictive Layer (if observed):  Type:  Depth (inches): No			•									
Depth (inches): No					,					· ·		
Depth (inches): No	Type:											
		ches):		_				Hvdric Soi	Present?	Yes	No	<b>~</b>
		,						1 -				<u> </u>
	rtomanto.											



Photo 1 Upland data point WLEB012\_u facing north



Photo 2
Upland data point WLEB012\_u facing west

Project/Site: SERP		City/C	County: Lewis		Sampling Date: 6/20/2014
Applicant/Owner: DOMINION			•	State: WV	Sampling Point: WLEA011e_w
			on, Township, Range: No		
Landform (hillslope, terrace, etc.	): DEPRESSION O	N Local rel	lief (concave, convex, nor	ne): concave	Slope (%): 7
Subregion (LRR or MLRA): N					
Soil Map Unit Name: Janelew cl	nannery silt loam, st	eep		NWI classifica	ation: None
Are climatic / hydrologic conditio	ns on the site typica				
Are Vegetation, Soil	**	•		•	,
Are Vegetation, Soil					
-					, important features, etc.
				,,	, <b>,</b>
Hydrophytic Vegetation Preser	it? Yes <u>v</u>	No No	Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?		No ' No	within a Wetland?	Yes	No
Remarks:		INO			
perched above a clay layer at s					
HYDROLOGY					
Wetland Hydrology Indicator					tors (minimum of two required)
Primary Indicators (minimum o	f one is required; ch			Surface Soil (	· ·
Surface Water (A1)	=	True Aquatic Plants (			etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pat	
Saturation (A3)	<u>-</u>	<ul> <li>Oxidized Rhizospher</li> <li>Presence of Reduced</li> </ul>	res on Living Roots (C3)	Moss Trim Li	Nater Table (C2)
Water Marks (B1) Sediment Deposits (B2)	_	Recent Iron Reduction	` '	Crayfish Burn	
Drift Deposits (B3)	_	Thin Muck Surface (0			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rer			ressed Plants (D1)
Iron Deposits (B5)	_	` ` '	,	Geomorphic I	
Inundation Visible on Aeria	al Imagery (B7)			Shallow Aquit	tard (D3)
Water-Stained Leaves (B9	·)			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):	0		
Saturation Present?	Yes No	Depth (inches):	Wetland F	Hydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (streat	m gauge, monitorin	g well, aerial photos, pre	evious inspections), if ava	ailable:	
Remarks:					
perced water table, saturated a	nd gleyed from 0-6 i	nches			

Sampling Point: WLEA011	1e_	W
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	Absolute	Dominant I	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		
1 Salix nigra	4	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
•				That Are OBL, FACW, OF FAC(A)
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				Due valence in description est.
7				Prevalence Index worksheet:
	4	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover: 2		total cover:	0.8	OBL species76 x 1 =76
15	20% 01	total cover		45 00
Sapling/Shrub Stratum (Plot size:)				F 45
1. Salix nigra	7	Yes	OBL	FAC species x 3 =
2. Sambucus nigra	5	Yes	FAC	FACU species0 x 4 =0
		-		UPL species0 x 5 =0
3				126 181
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 1.43
		·		Prevalence Index = B/A =1.43
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
J	12	<del></del>		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
6		= Total Cove	r 2.4	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 6	20% of	total cover:_	2.4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				· , , , , , , , , , , , , , , , , , , ,
1 Typha latifolia	35	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Cyperus pseudovegetus	25	Yes	FACW	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Carex lupulina	20	No	OBL	be present, unless disturbed or problematic.
4. Juncus effusus	20	No	FACW	Definitions of Four Vegetation Strata:
Carex vulpinoidea	10	No	OBL	Definitions of Four vegetation Strata:
o				Tree – Woody plants, excluding vines, 3 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				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	110	= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55		total cover:_		2. 2.29, sina mosa, piamo 1000 man 0.20 m tam
0070 01 total 00001.	20 /6 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2	_	-	_	
3				
4				Hydrophytic
5.				Vegetation
	0	= Total Cove		Present? Yes No
50% of total cover: 0		total cover:		
0070 01 total 00701.		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			

Depth	Matrix		Redox Features			
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>		exture	Remarks
0-6	GLEY 1 2.5/10Y	100			SICL	
6-18	10YR 6/3	100			SC	
				2.		
		etion, RM=R	educed Matrix, MS=Masked Sand Grains	s. 'Lo	cation: P	L=Pore Lining, M=Matrix.
-	Indicators:		D 1 0 ( (OT)			ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface (S7)			cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLF			Coast Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		Thin Dark Surface (S9) (MLRA 147 Loamy Gleyed Matrix (F2)	, 148)	_	(MLRA 147, 148)
	d Layers (A5)		Depleted Matrix (F2)		^	iedmont Floodplain Soils (F19) (MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)		\/	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Nedox Bark Surface (1 0) Depleted Dark Surface (F7)			Other (Explain in Remarks)
	ark Surface (A12)	, (, (, , , ,	Redox Depressions (F8)		~	The (Explain in Homaine)
	Mucky Mineral (S1) <b>(L</b>	RR N.	✓ Iron-Manganese Masses (F12) (LR	R N.		
	A 147, 148)	<b>,</b>	MLRA 136)	,		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136,	122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (M			etland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 1			less disturbed or problematic.
Restrictive	Layer (if observed):					•
Type: cla	ay					
Depth (in	ches):			Hy	dric Soil	Present? Yes No
Remarks:						



Photo 1
Wetland data point WLEA011e\_w facing west



Photo 2
Wetland data point WLEA011e\_w facing north

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/20/2014
Applicant/Owner: DOMINION					Sampling Point: WLEA011_u
• •			on, Township, Range: No		
Landform (hillslope, terrace, etc.): SIDESLo					Slope (%):_12
Subregion (LRR or MLRA):		490644	Long: -80.3	33558988	Datum: WGS 1984
Soil Map Unit Name: Janelew channery silt	t loam, steep		2511g1	NWI classification	ation: None
Are climatic / hydrologic conditions on the s					
Are Vegetation, Soil, or Hyd		-			
Are Vegetation, Soil, or Hyd					
SUMMARY OF FINDINGS – Atta					
	Yes No_ Yes No_		Is the Sampled Area		<b>v</b>
	Yes No_		within a Wetland?	Yes	No
Remarks:	100				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is req	uired; check all tha	at apply)		Surface Soil (	
Surface Water (A1)	-	quatic Plants (E	B14)		getated Concave Surface (B8)
High Water Table (A2)		gen Sulfide Odo		Drainage Pat	
Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	Preser	nce of Reduced	I Iron (C4)	Dry-Season \	Nater Table (C2)
Sediment Deposits (B2)	Recen	t Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)		luck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (	(Explain in Rem	narks)		ressed Plants (D1)
Iron Deposits (B5)	(D7)			Geomorphic	
Inundation Visible on Aerial Imagery (	(B7)			Shallow Aqui	
Water-Stained Leaves (B9) Aquatic Fauna (B13)				Microtopogra	phic Relief (D4) Test (D5)
Field Observations:				I AO NOULL	1651 (D0)
	No 🔽 Depth	(inches):			
	No V Depth				
	No V Depth			lvdrology Presen	t? Yes No
(includes capillary fringe)	•				
Describe Recorded Data (stream gauge, i	monitoring well, aei	rial photos, prev	vious inspections), if ava	ilable:	
Remarks:					
no hydrolog indicators					

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

\_\_\_\_)

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

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

50% of total cover:

75 = Total Cover 50 20% of total cover: 20

50% of total cover: 0 20% of total cover:

30

Sapling/Shrub Stratum (Plot size: 15 )

Tree Stratum (Plot size:

Herb Stratum (Plot size: \_ 1. Festuca rubra

3. Dichanthelium clandestinum

5. Leucanthemum vulgare

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

2. Phleum alpinum

4. Trifolium pratense

nes of	plants.		Sampling Point: WLEA011	_u
bsolute	Dominant In		Dominance Test worksheet:	
<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:  0	(A)
			Total Number of Dominant Species Across All Strata: 2	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:  0	(A/B
			Prevalence Index worksheet:	
0	Total Cove		Total % Cover of: Multiply by	<u>:</u>
20% of	total cover:_	0	OBL species x 1 = 0	
			FACW species0 x 2 =0	
			FAC species15 x 3 =45	
			FACU species 50 x 4 = 200	
			UPL species10 x 5 =50	
			Column Totals:75 (A)295	(B)
			Prevalence Index = B/A = 3.93	
			Hydrophytic Vegetation Indicators:	
			1 - Rapid Test for Hydrophytic Vegetation	า
			2 - Dominance Test is >50%	
			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide :	supportin
20% of	total cover:_	0	data in Remarks or on a separate she	
40	Yes	FACU	Problematic Hydrophytic Vegetation¹ (Ex	
25	Yes	17100		
15	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrolog	gy must
10	No No	FACU	be present, unless disturbed or problematic.	
10	No No	UPL	Definitions of Four Vegetation Strata:	
		OFL	Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), regardeight.	
			Sapling/Shrub – Woody plants, excluding virthan 3 in. DBH and greater than or equal to 3 m) tall.	
	Total Cove	20	Herb – All herbaceous (non-woody) plants, re of size, and woody plants less than 3.28 ft tal	
_ 20% of	total cover:_		Woody vine – All woody vines greater than 3 height.	3.28 ft in
0 :	Total Cove		Hydrophytic Vegetation Present?  Yes No	_
	total cover:	0		

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

Sampling Point: WLEA011\_u

Depth	Matrix		Redox Features		
nches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>		Remarks
0-6	10YR 4/4	100		SCL	
6-20	10YR 5/4	100		SCL	
				_	
		<del>-</del>		_	
vpe: C=C	concentration, D=De	oletion, RM=R	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators:	,		Indi	cators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol	l (A1)		Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14		Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Surface (S9) (MLRA 147, 148		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	ce (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	( , , ,	Redox Depressions (F8)		(=
	Mucky Mineral (S1) (	LRR N.	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)	<b>,</b>	MLRA 136)		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> In	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		vetland hydrology must be present,
	d Matrix (S6)		Red Parent Material (F21) (MLRA 127, 1		inless disturbed or problematic.
		•		1	
estrictive	Laver (if observed)				
estrictive   Type: NO	<b>Layer (if observed)</b> ONE	•			
Type: NO	ONE	•	_	Hydric So	il Present? Ves No V
Type: NO	ONE	•	- -	Hydric So	il Present? Yes No
Type: NO	ONE	•	_ _	Hydric So	il Present? Yes No
Type: NO	ONE	•	_ _	Hydric So	il Present? Yes No
Type: NO	ONE	•	<del>-</del> -	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE		<del>-</del> -	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE		<del>_</del> -	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE		<u>-</u>	Hydric So	il Present? Yes No 🗸
Type: NO	ONE		_	Hydric So	il Present? Yes No
Type: NO	ONE		_	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE		<u>-</u>	Hydric So	il Present? Yes No
Type: NO	ONE		<u>-</u>	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE			Hydric So	il Present? Yes No
Type: NO Depth (in	ONE			Hydric So	il Present? Yes No
Type: NO Depth (in	ONE		<u>-</u>	Hydric So	il Present? Yes No
Type: NO Depth (in	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No
Type: NO	ONE			Hydric So	il Present? Yes No



Photo 1 Upland data point WLEA011\_u facing north



Photo 2
Upland data point WLEA011\_u facing east

Project/Site: Atlantic Coast Pipeline		City/C	County: Lewis		Sampling Date: 5/15/2015	
Applicant/Owner: DOMINION					Sampling Point: wlec006e_w	
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): 2						
Subregion (LRR or MLRA): N	Lat:	39.03511623	Long: -80.	33287314	Datum: WGS 1984	
Soil Map Unit Name: Janelew chann	ery silt loam, steer	p		NWI classific	cation: None	
Are climatic / hydrologic conditions o	n the site typical fo	or this time of year? Y	′es No	(If no, explain in R	Remarks.)	
Are Vegetation, Soil,	or Hydrology	significantly distur	bed? Are "Normal	l Circumstances" ¡	oresent? Yes No	
Are Vegetation, Soil,						
SUMMARY OF FINDINGS -						
Hydrophytic Vegetation Present?	Yes 🗸	No				
Hydric Soil Present?		No	Is the Sampled Area	Vac V	No	
Wetland Hydrology Present?		No	within a Wetland?	res	NO	
Remarks:	<u> </u>	<del>-</del>				
Seep fed wetland with a constructed but is not rooted within it.						
HYDROLOGY						
Wetland Hydrology Indicators:					ators (minimum of two required)	
Primary Indicators (minimum of one	•			Surface Soil		
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pa		
Saturation (A3)		Presence of Reduced	es on Living Roots (C3)	Moss Trim L		
Water Marks (B1) Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Bur	Water Table (C2)	
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer			stressed Plants (D1)	
Iron Deposits (B5)	_	(=- <b> </b>	,		Position (D2)	
Inundation Visible on Aerial Im-	agery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)				Microtopographic Relief (D4)		
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)	
Field Observations:						
	s No 🖍					
Water Table Present? Yes	s_ <b>_/</b> _ No	Depth (inches):	12			
	s No	Depth (inches):	0 Wetland H	Hydrology Preser	nt? Yes 🗸 No	
(includes capillary fringe)  Describe Recorded Data (stream g	auge monitoring v	vell aerial photos, pre	vious inspections) if ava	nilable.		
Describe Necestada Data (etream g	augo, monitoring v	von, donai priotoo, pro	vious inspositorio), ii ave	masio.		
Remarks:						
Wetland hydrology present						

Sampling Point: wlec006e_w
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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: (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:  3 (B)
4				Openies / toress / till etrata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
	0	= Total Cover		
50% of total cover: 0	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species30
				FACU species 20 x 4 = 80
2				UPL species
3				. 00 215
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 2.38
6			_	1 Tevalence index = B/T(=
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	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	30	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex lurida	25	Yes	OBL	
	20			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Solidago altissima		Yes	FACU	be present, unless disturbed or problematic.
<sub>4.</sub> Typha latifolia	10	No	OBL	Definitions of Four Vegetation Strata:
5. Impatiens capensis	5	No	FACW	<b>3</b>
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	90	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover:	18	or orzer, and moday plante look mail orze it tam
0070 01 total 00001:	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
J				Vegetation Present? Yes No
0		= Total Cover	0	1103CM: 103 NO
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wlec006e\_w

Profile Des	cription: (Describe	to the de	pth needed to docun	nent the i	indicator	or confirm	the absenc	e of indicators.)
Depth (in a land)	Matrix	0/	Redox	K Feature		1 - 2	T	Decreal o
(inches) 0-12	Color (moist) 10 YR 4/2	<u>%</u> 97	Color (moist) 10 YR 4/4	3	Type <sup>1</sup> C	Loc <sup>2</sup> PL/M	Texture SICL	Remarks
			10 110 4/4					
12-16	10 YR 5/3	100					SCL	
	· .							
1		· ——	. <del></del>				2	
	Concentration, D=Dep Indicators:	letion, RM	1=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
•				( <del>-</del> -)				cators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface		(00) (1			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
	listic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Mat	, ,	<b>-</b> C\			(MLRA 136, 147)
	uck (A10) (LRR N)	o (A11)	Redox Dark S		•			Very Shallow Dark Surface (TF12)
	ed Below Dark Surfact ark Surface (A12)	e (ATT)	Depleted Dar Redox Depre				_	Other (Explain in Remarks)
	Mucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangane			IDDN		
	A 147, 148)	-IXIX I <b>4</b> ,	MLRA 130		63 (1 12) <b>(</b>	LIXIX IN,		
	Gleyed Matrix (S4)		Umbric Surfa	-	(MIRA 13	16 122)	<sup>3</sup> In	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	d Matrix (S6)		Red Parent M					inless disturbed or problematic.
	Layer (if observed):		rear arener	iatoriai (i	Z1) (IIIZI	7. 127, 147	, u	inios distarbed of problematic.
Type:								
							Hudela Ca	il Brananta Van V
Depth (in	icnes):						Hydric So	il Present? Yes No
Remarks:								
lydric soil pr	resent							



Photo 1 Wetland data point wlec006e\_w facing east



Photo 2
Wetland data point wlec006e\_w facing south

Project/Site: Atlantic Coast Pipeline		City/County: Lewis	;	Sampling Date: 5/15/2015			
Applicant/Owner: DOMINION			State: WV	Sampling Point: wlec006_u			
	, Range: No PLSS in this a	irea — — — — — — — — — — — — — — — — — — —					
Landform (hillslope, terrace, etc.): Flat				Slope (%):0			
Subregion (LRR or MLRA): N							
Soil Map Unit Name: Janelew channery silt lo	am, steep		NWI class	sification: None			
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydrol							
Are Vegetation, Soil, or Hydrol		· ·					
SUMMARY OF FINDINGS – Attach							
				oto, important routuros, stor			
	s No	Is the Sam					
	s No s No	within a W	etland? Yes	No			
Wetland Hydrology Present? Ye Remarks:	S NO	<u> </u>					
Data point taken within a constructed road. R jm							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Inc	dicators (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that ap	oly)	Surface S	soil Cracks (B6)			
Surface Water (A1)		ic Plants (B14)	Sparsely	Vegetated Concave Surface (B8)			
High Water Table (A2)		Sulfide Odor (C1)		Patterns (B10)			
Saturation (A3)		hizospheres on Living I		n Lines (B16)			
Water Marks (B1)		f Reduced Iron (C4)					
Sediment Deposits (B2)		Reduction in Tilled So		Burrows (C8)			
Drift Deposits (B3)		Surface (C7)		n Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Exp	ain in Remarks)	<ul><li>Stunted or Stressed Plants (D1)</li><li>Geomorphic Position (D2)</li></ul>				
Inundation Visible on Aerial Imagery (B7	")						
Water-Stained Leaves (B9)	,			<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief (D4)</li></ul>			
Aquatic Fauna (B13)			FAC-Neu				
Field Observations:							
	No Depth (inc	hes):					
	No Depth (inc						
	No Depth (inc	·	Wetland Hydrology Pres	sent? Yes No			
(includes capillary fringe)		·					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial p	notos, previous inspect	ions), if available:				
Remarks:							
No wetland hydrology present							

Sampling	Point: wlec006_u
Sambling	Point: wiccooo_c

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:0 (A)
2				Total Number of Descious
3				Total Number of Dominant Species Across All Strata:  1 (B)
4				Operico Acroso Air etrata.
				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:  OBL species 0 x 1 = 0
	20% of	total cover:	0	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1				FAC species0 x 3 =0
		<del></del>		FACU species90 x 4 =360
2		<del></del>		UPL species 0 x 5 = 0
3				110 400
4				Column Totals: (A) (B)
5				Prevalence Index = B/A = 3.63
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	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 Poa pratensis	60	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Dactylis glomerata	20	No	FACU	
3. Poa trivialis	20	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Vicia sativa		No	FACU	be present, unless disturbed or problematic.
"		<del></del>		Definitions of Four Vegetation Strata:
5. Asclepias syriaca	5	No	FACU	The Mandage of such dispersion (7.0 cm) or
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
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
	110	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover:55	20% of	total cover:	22	
Woody Vine Stratum (Plot size: 30				Woody vine – All woody vines greater than 3.28 ft in
vvoogy vine Stratum (Plot size: 30 )				hoight
· · · · · · · · · · · · · · · · · · ·				height.
1				height.
· · · · · · · · · · · · · · · · · · ·				height.
1				height.
1				
1				Hydrophytic
1				Hydrophytic Vegetation
1			0	Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation
1	0			Hydrophytic Vegetation

Sampling Point: wlec006\_u

Profile Des	cription: (Describe to	o the depth n	eeded to docun	nent the inc	dicator or confirm	n the ab	sence of	indicators	.)	
Depth	Matrix			x Features						
(inches) 0-16	Color (moist) 10 YR 5/3	100	Color (moist)	<u></u> %	Type <sup>1</sup> Loc <sup>2</sup>		ture SL 2	0 % gravel	Remarks throughout	
			_			,				_
			_			-				_
						-				
1						2.				
'Type: C=C Hydric Soil	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked S	Sand Grains.	<sup>2</sup> Locat			, M=Matrix. Iematic Hyd	tric Soile <sup>3</sup> :
-			Douls Confood	(07)					-	
Histoso	pipedon (A2)	-	Dark Surface		(S8) <b>(MLRA 147</b> ,	1/8)			0) <b>(MLRA 1</b> 4 edox (A16)	17)
	istic (A3)	-			MLRA 147, 148)	, 140)		1LRA 147,		
· <del></del>	en Sulfide (A4)	=	Loamy Gleye						Iplain Soils (	F19)
	d Layers (A5)	_	Depleted Mat		-,			ILRA 136,		,
	uck (A10) (LRR N)	<u> </u>	Redox Dark S		)				ark Surface	(TF12)
	d Below Dark Surface	(A11) _	Depleted Dar		=7)		Othe	er (Explain i	n Remarks)	
	ark Surface (A12)	_	Redox Depre							
	Mucky Mineral (S1) (LI	RR N,			(F12) <b>(LRR N,</b>					
	A 147, 148)		MLRA 13	•	LDA 420 400\		31			tation and
	Gleyed Matrix (S4) Redox (S5)	=			<b>LRA 136, 122)</b> s (F19) <b>(MLRA 1</b> 4	10\		-	ophytic vege y must be p	
-	d Matrix (S6)	-			IS (F19) (WLRA 12 I) (MLRA 127, 14)			-	or problema	
	Layer (if observed):	<del>-</del>	red r drone is	iatoriai (i Z	) (MEICA 121, 14	·,	unio.	3 diotarbed	or problema	itio.
Type:										
	ches):		-			Hydr	ric Soil Pr	esent? \	/es	No 🗸
Remarks:			-			,				
No hydric soi	l nresent									
i vo riyano soi	Present									



Photo 1 Upland data point wlec006\_u facing east



Photo 2 Upland data point wlec006\_u facing north

Project/Site: SERP		City/C	ounty: Lewis		Sampling Date: 6/21/2014	
Applicant/Owner: DOMINION				State: WV	_ Sampling Point: WLEA012f_w	
	PLSS in this Area					
Landform (hillslope, terrace, etc.)				Slope (%): <u>5</u>		
Subregion (LRR or MLRA): N		Lat: 39.03394454	Long: <u>-</u> 80.0	32286052	Datum: WGS 1984	
Soil Map Unit Name: Gilpin-Upsh	nur silt loams, 35 t	to 70 percent slopes, seve	rely eroded	NWI classifica	ntion: None	
Are climatic / hydrologic condition	ns on the site typic	cal for this time of year? Y	es <u>/</u> No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil						
Are Vegetation, Soil						
SUMMARY OF FINDING						
			7 31			
Hydrio Soil Brooms	Yes	<ul><li>✓ No</li><li>✓ No</li></ul>	Is the Sampled Area			
Hydric Soil Present? Wetland Hydrology Present?		<u>✓ No</u>	within a Wetland?	Yes	_ No	
Remarks:		110				
Wetland data point for a saturate percolation.	a PPO Welland O	n an old mining tenace, ny	drology is from seepage	e out or adjacent po	nu, ciay subsoii prevents water	
HYDROLOGY						
Wetland Hydrology Indicators	3:			Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum of	one is required; o	heck all that apply)		Surface Soil 0	Cracks (B6)	
✓ Surface Water (A1)		True Aquatic Plants (		Sparsely Veg	etated Concave Surface (B8)	
High Water Table (A2)		✓ Hydrogen Sulfide Odd		Drainage Patt		
Saturation (A3)		✓ Oxidized Rhizosphere	= ' '	Moss Trim Lir		
Water Marks (B1)		Presence of Reduced	` '		Vater Table (C2)	
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Burro		
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Iron Deposits (B5)		Other (Explain in Ren	iaiks)	Geomorphic F	ressed Plants (D1)	
Inundation Visible on Aeria	l Imagery (B7)			Shallow Aquit		
Water-Stained Leaves (B9)	,			Microtopographic Relief (D4)		
Aquatic Fauna (B13)				✓ FAC-Neutral		
Field Observations:					· , ,	
Surface Water Present?	Yes V No	Depth (inches):	1			
		Depth (inches):				
			0 Wetland F	lydrology Present	? Yes <u>/</u> No	
(includes capillary fringe)  Describe Recorded Data (strea	m acuse monitor	ing wall parial photos pro	vieve inenections) if ave	ilabla		
Describe Recorded Data (strea	m gauge, monitor	ing well, aerial priotos, pre	vious inspections), ii ava	illable.		
Remarks:						
SEEPAGE FROM ADJACENT F	OND IS PERCHI	ED BY CLAY LAYER				

Sampling	Point: WLEA012f_w
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1 Acer negundo	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
2 Robinia pseudoacacia	10	Yes	FACU	mat Arc OBE, I AOW, OF AO.
- <del>-</del> -				Total Number of Dominant
3				Species Across All Strata: 9 (B)
4				Percent of Deminant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 77.77777777 (A/B)
6				(145)
7				Prevalence Index worksheet:
1	35	<del></del>		Total % Cover of: Multiply by:
17.5		= Total Cove	er 7	OBL species $\frac{17}{x} = \frac{17}{17}$
50% of total cover: 17.5	20% of	total cover:		40 80
Sapling/Shrub Stratum (Plot size:)				FACW species x z =
1. Lindera benzoin	15	Yes	FAC	FAC species x 3 =
2. Sambucus nigra	10	Yes	FAC	FACU species 20 x 4 = 80
3. Rosa multiflora	10	Yes	FACU	UPL species0 x 5 =0
				Column Totals:152
4				(A)(D)
5				Prevalence Index = B/A = 2.64
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	25			✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
47.5		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:17.5	20% of	total cover:	7	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:				,
1. Impatiens capensis	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Boehmeria cylindrica	20	Yes	FACW	
3. Microstegium vimineum	15	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4. Carex lupulina	15	Yes	OBL	Definitions of Four Vegetation Strata:
5. Holcus lanatus	10	No	FAC	
6. Typha latifolia	2	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7.				more in diameter at breast height (DBH), regardless of height.
0				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				Herb - All herbaceous (non-woody) plants, regardless
	82	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 41		total cover:		
Woody Vine Stratum (Plot size: 30 )		101a. 0010 <u>.</u>		Woody vine – All woody vines greater than 3.28 ft in
voody vine Stratum (1 lot size.				height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
o		<del></del>		Present? Yes No
· · · · · · · · · · · · · · · · ·		= Total Cove	•	100 <u> </u>
50% of total cover: 0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate sl	heet.)			
black locust are dying due to the saturated conditions				

Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-5	GLEY 1 2.5/10Y	100					SIL	
5-20	10YR 6/3	90	10YR 5/6	10	С	PL/M	С	
	-							
_	-							
	-							-
Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, MS	S=Masked S	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
lydric Soil								ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		e (S8) (N	ILRA 147.		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, -,	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S	. ,	)		V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	, ,	•			Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depre					,
Sandy N	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masses	s (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 130					
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(M</b>	ILRA 13	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain Soi	Is (F19)	(MLRA 14	<b>8)</b> we	etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	faterial (F2	1) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturbed or problematic.
Restrictive	Layer (if observed):							
Type: cla	ay							
Depth (in							Hydric Soil	Present? Yes V No
							yae co	<u> </u>
Remarks:								



Photo 1
Wetland data point WLEA012f\_w facing east



Photo 2
Wetland data point WLEA012f\_w facing north

Project/Site: SERP	City/County: Lewis	Sampling Date: 6/21/2014		
Applicant/Owner: DOMINION		State: WV Sampling Point: WLEA012_u		
Investigator(s): GB, LE	Section, Township, Range: N			
	Local relief (concave, convex, no			
Subregion (LRR or MLRA): N		.32288496 Datum: WGS 1984		
Soil Map Unit Name: Gilpin-Upshur silt loams, 35	.o 70 percent slopes, severely eroded	NWI classification: 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 "Norma	al Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology				
		ons, transects, important features, etc.		
	No Is the Sampled Area within a Wetland?	YesNo		
Wetland Hydrology Present? Yes	No			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; of	:heck all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Saturation (A3)	<ul><li>Oxidized Rhizospheres on Living Roots (C3)</li></ul>			
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) FAC-Neutral Test (D5)		
Aquatic Fauna (B13)		FAC-Neutral Test (D5)		
Field Observations:	Depth (inches):			
	Depth (inches): 20			
	10	Hudralama Brasanto Vas		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): wetland	Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if av	ailable:		
Damarka				
Remarks: POINT JUST OUTSIDE SEEPAGE ZONE ORIG	NATING FROM POND			
I GIVE SOOT OUTSIDE SEEL AGE ZONE SKIS	NATING FROM FORD			

Sampling F	oint·WLE	4012_u
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00	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Prunus serotina	45	Yes	FACU	That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Demisses
3				Total Number of Dominant Species Across All Strata:  6 (B)
1				Opedies Across Air otrata.
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 66.6666666 (A/B)
6				Prevalence Index worksheet:
7				
	45	= Total Cove		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
50% of total cover: 22.5	20% of	total cover:_	9	OBL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Rosa multiflora	30	Yes	FACU	FAC species85
2. Lindera benzoin	20	Yes	FAC	FACU species83 x 4 =332
				UPL species 0 x 5 = 0
3				186 623
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =3.34
6				Trevalence mack = B/TC =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	50			3 - Prevalence Index is ≤3.0 <sup>1</sup>
25		= Total Cove	r 10	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 25	20% of	total cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:5				
1. Microstegium vimineum	35	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Dichanthelium clandestinum	20	Yes	FAC	
3. Boehmeria cylindrica	12	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Polystichum acrostichoides	8	No	FACU	
5. Impatiens capensis	6	No	FACW	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
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
	81	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover:40.5		total cover:_		
Woody Vine Stratum (Plot size: 30 )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 Vitis rotundifolia	10	Yes	FAC	height.
-				
2				
3				
4				Hydrophytic
5				Vegetation
	10	= Total Cove	r	Present? Yes No
50% of total cover:5		total cover:_	2	
Remarks: (Include photo numbers here or on a separate s		_		
Remarks. (include prioto numbers here of on a separate s	ileet.)			

Sampling Point: WLEA012\_u

Profile Des	cription: (Describe	to the dept				or confirm	the absen	ce of indicators.)			
Depth	Matrix		Redo	x Features	S	. 2	_				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture SICL	Remarks			
0-7	10YR 4/3	100									
7-18	10YR 5/6	100					SC				
					-						
								<u> </u>			
								<u> </u>			
							-	_			
	·										
								_			
1- 0.0							2,				
	Concentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.			
-	Indicators:						inc	dicators for Problematic Hydric Soils <sup>3</sup> :			
Histoso			Dark Surface		(0.0) (1			2 cm Muck (A10) (MLRA 147)			
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)			
	listic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)			
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)			
	ed Layers (A5)		Depleted Mat		·c\			(MLRA 136, 147)			
	uck (A10) <b>(LRR N)</b> ed Below Dark Surface	o (A11)	Redox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Dark Surface (F7) Other (Explain in Remarks)								
	oark Surface (A12)	# (ATT)	Redox Depre					Other (Explain in Remarks)			
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			I RR N					
	A 147, 148)	-IXIX I <b>X</b> ,			63 (1 12) <b>(</b>	LIXIX IV,					
	Gleyed Matrix (S4)		MLRA 136) Umbric Surface (F13) (MLPA 136, 122)  3Indicators of hydrophytic vagetation and								
	Redox (S5)		Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) *Indicators of hydrophytic vegetation an wetland hydrology must be present,								
	d Matrix (S6)		— Red Parent Material (F21) (MLRA 127, 147) wetland nydrology must be present unless disturbed or problematic.								
	Layer (if observed):		Red r drene n	iatoriai (i	21) (IIILIX	A 121, 141	<u>,</u>	diffess distalled of problematic.			
Type: C	LAY										
Type	7		<del></del>								
	nches): 7						Hydric S	Soil Present? Yes No			
Remarks:											



**Photo 1**Upland data point WLEA012\_u facing west



Photo 2 Upland data point WLEA012\_u facing south