SUPPLY HEADER PROJECT ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

TL-635

Doddridge County

West Virginia

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: DTI Supply Header	City/County: Doddridge Sampling Date: Oct 21, 2014				
Applicant/Owner: Dominion	State: West Virginia Sampling Point: wdog001e				
Investigator(s): DDWest	Section, Township, Range: NA				
Landform (hillslope, terrace, etc.) Floodplain Loc					
Slope (%): 0 Lat: 39°10'46" N					
Soil Map Unit Name: Gilpin	NWI Classification: none				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrology significantly disturbed					
Are Vegetation , Soil , or Hydrology naturally problematic					
	, , , , , , , , , , , , , , , , , , , ,				
SUMMARY OF FINDINGS - Attach site man showing sar	npling point locations, transects, important features, etc.				
	point routions, transcoto, important routares, etci				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No					
Remarks:					
IIVADALAAV					
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 High Water Table (A2) Hydrogen Sulfide O	(B14) Sparsely Vegetated Concave Surface (B8)				
X Saturation (A3) — Hydrogen Suilide O Oxidized Rhizosphe	dor (C1) Drainage Patterns (B10) eres on Living Roots (C3) Moss Trim Lines (B16)				
Water Marks (B1) Presence of Reduct	ed Iron (C4) Dry-Season Water Table (C2)				
Sediment Deposits (B2) Recent Iron Reduct	ion in Tilled Soils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3) Algal Mat or Crust (B4) Thin Muck Surface Other (Explain in Re	emarks) Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	X Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic Relief (D4) X FAC-Neutral Test (D5)				
Field Observations:	<u></u>				
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No X Depth (inches):					
	Wetland Hydrology Present? Yes X No				
Saturation Present? Yes X No Depth (inches): 4 (includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	aviava iranastiana) if available.				
Describe Recorded Data (stream dauge, monitoring well, aerial photos, pr	evious inspections) it available.				
2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	eviduo inoposiistio), ii divaliasio.				
gauget mental and the protoco, pr	oriodo inspectionoj, ir dvalidole.				
Remarks:					

Sampling Point <u>e_w</u>

				Dominance Test worksheet	:	
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Speci-	es	
Platanus occidentalis (Sycamore,american) 2.	25	Y	FACW	That Are OBL, FACW, or Fa	AC:4 ((A)
				Total Number of Dominant		
				Species Across All Strata:	4 ((B)
•				Percent of Dominant Specie		
				That Are OBL, FACW, or Fa	AC:100 (A	A/B)
	= -	-	-	Prevalence Index workshee	4.	
8	25	= Total Cov	· · ·	Total % Cover of:	Multiply by:	
		- 10tal C0	vei	OBL species	x 1 =	
Sapling/Shrub Stratum (Plot size: 30)						
1 Fegure grandifelia (Beech)	10	Y	FAC	FACW species	X 2 =	
ragus grandiolia (Beech) Carpinus caroliniana (Hornbeam,american)	5		FAC	FAC species	X 3 =	
3.	_		-	FACU species	X 4 =	
4.				UPL species	X 5 =	
5.				Column Totals:	(A)	(B)
3.					W 1	
7.				The same of the sa	v = D/A =	
8.				Prevalence Inde		
9.						
10.	_		-	X 2 - Dominance Test is > 5		
	15	= Total Co	ver			
		,		3 - Prevalence Test is ≤ 3		280
Herb Stratum (Plot size: 10) 1. Eulalia viminea (Microstegium,nepal)	40	Υ	FAC	4 - Morphological Adapta data in Remarks or on		orting
Cyperus erythrorhizos (Flatsedge,red-root)	10		FACW	Problematic Hydrophytic	Vegetation¹ (Explain))
2 Juneus offusus (Bush soft)	10	. —	FACW			
4. Rosa multiflora (Rose,multiflora)	10		FACU	¹ Indicators of hydric soil and		must
Festuca arundinacea (Fescue,kentucky)	5	. —	FACU	be present, unless disturbe	d or problematic.	
	_			Definitions of Vegetation S	trata:	
7	_	-	-	Tree – Woody plants, exclud	ing vines 3 in (7.6 c	cm)
9.		-	-	and the second second second second		J,
10.		*		regardless of height.		
100	_	. ——	-	Sanling/Shrub Woody pla		locc
11.		-			nte avaludina vinac	1622
11				than 3 in DBH and greater t	nts, excluding vines, nan 3.28 ft (1 m) tall.	
11	75	= Total Co	ver	than 3 in. DBH and greater t	nan 3.28 ft (1 m) tall.	
11	_	= Total Co	ver	than 3 in. DBH and greater t Herb – All herbaceous (non-	nan 3.28 ft (1 m) tall. woody) plants, regar	
11 12	_	= Total Co	ver	than 3 in. DBH and greater t	nan 3.28 ft (1 m) tall. woody) plants, regar	
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non-	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	rdless
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	rdless
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les Woody vine – All woody vin	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	rdless
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les Woody vine – All woody vin height.	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	rdless
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les Woody vine – All woody vin height. Hydrophytic	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	rdless
11	75		ver	than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les Woody vine – All woody vin height. Hydrophytic Vegetation	nan 3.28 ft (1 m) tall. woody) plants, regards than 3.28 ft tall. es greater than 3.28	ft in
11	75			than 3 in. DBH and greater t Herb – All herbaceous (non- of size, and woody plants les Woody vine – All woody vin height. Hydrophytic Vegetation	nan 3.28 ft (1 m) tall. woody) plants, regards s than 3.28 ft tall.	ft in

Sampling Point: wdog001e_w

Depth	Matrix			dox Feature				AND
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-4	10YR3/3	100			N/A	_N/A	Clay Loam	
4-16	7.5yr5/1	80	7.5yr4/6		N/A	N/A	Clay	
	oncentration, D=De	epletion, RM	=Reduced Matrix, C	S=Covered	or Coate	d Sand Gr		Location: PL=Pore Lining, M=Matrix.
Mark Company Company	sol (A1)		Dark Surfa	ce (S7)			maic	2 cm Muck (A10) (MLRA 147)
2 100 000000000000000000000000000000000	Epipedon (A2)			Below Surfa	ce (S8)	MLRA 14	7. 148)	Coast Prairie Redox (A16)
	Histic (A3)			Suface (S9)			.,,	(MLRA 147, 148)
	gen Sulfide (A4)			yed Matrix (, ,		Piedmont Floodplain Soils (F19)
Strati	fied Layers (A5)		X Depleted N	Action and and and and	-/			(MLRA 136, 147)
	Muck (A10) (LRR I	N)		k Surface (F	6)			Red Parent Material (TF2)
	ted Below Dark Su			Dark Surface	3.0			Very Shallow Dark Surface (TF12)
	Dark Surface (A12	2)	The same of the sa	oressions (F				Other (Explain in Remarks)
	y Mucky Mineral (S			anese Mass		(LRR N,		, .
	LRA 147, 148)		MLRA		, ,			
Sand	y Gleyed Matrix (s4	4)	Umbric Su	rface (F13)	MLRA 1	36, 122)	31	
	y Redox (S5)			Floodplain S				ators of Hydrophytic vegetation and land hydrology must be present, unles
	ed Matrix (S6)		V				*****	turbed or problematic.
	Layer (if observed	41.			T -			
Type:	Layer (II observed	4).			Harri	lric Soil P	rocont?	Yes X No
	iches):				пус	ITIC SOII P	resentr	Yes X No

wdog001e_w



Wetland data point wdog001e_w facing northeast



Wetland data point wdog001e_w facing south

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site: DTI Supply Header	City/County: Doddridge Sampling Date: Oct 22, 2014
Applicant/Owner: Dominion	State: West Virginia Sampling Point: wdog001_u
Investigator(s): DDWest	Section, Township, Range: NA
Landform (hillslope, terrace, etc.) Hillslope	
Slope (%): 20 Lat: 39°10'45.9" N	Long: 80°34'10.9" W Datum: wgs 84
Soil Map Unit Name: Gilpin	NWI Classification: none
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly di	isturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problem.	
	The article Association of the Control of the Association of the Assoc
SUMMARY OF FINDINGS - Attach site man showing	ng sampling point locations, transects, important features, etc.
-	•
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No	X within a Wetland? Yes No _X
Wetland Hydrology Present? Yes No	X
HYDROLOGY	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	c Plants (B14) ulfide Odor (C1) bizospheres on Living Roots (C3) Reduced Iron (C4) Every first of the provided in the provided
Field Observations:	
Surface Water Present? Yes No _X Depth (inches)	:
Water Table Present? Yes No _X Depth (inches)	: Wetland Hydrology Present? Yes No _X
Saturation Present? Yes No _X Depth (inches) (includes capillary fringe)	Wettand nydrology Present: Pes No _X_
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
wetland hydrology is not present	
-	

Dominant Species? Y Y = Total Co	FACW FAC	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:		(A) (B) (A/B)
Y Y = Total Co	FAC	That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	6 83.3	(B) (A/B)
Y = Total Co	FAC	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	6 83.3	(B) (A/B)
= Total Co		Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	83.3	_ (A/B)
= Total Co		Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	83.3	_ (A/B)
= Total Co		Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	83.3	_ (A/B)
= Total Co		That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:		
= Total Co		That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:		
= Total Co		Prevalence Index worksheet: Total % Cover of:		
= Total Co		Total % Cover of:	Multiply by:	
= Total Co	over	Total % Cover of:	Multiply by:	
Υ	ovei			
-			x1=	
-			1,	_
-	E40	FACW species	X 2 =	
Y	FAC	FAC species	X 3 =	
-	FAC		X 4 =	
Y	FACW			
			X 5 =	
		Column Totals:	(A)	(B)
	-	Provolence Index =	B/A -	
	-			
			vegetation	
- Total C		X 2 - Dominance Test is > 50%		
= Total C	over	3 - Prevalence Test is ≤ 3.01		
		and the same of th	· · · · · · · · · · · · · · · · · · ·	
		Problematic Hydrophytic Veg	etation' (Expl	ain)
		11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Alexa d baseles le	
				gy must
		be present, unless disturbed or	problematic.	
		-		
		Definitions of Vegetation Strat	a:	
-	-	- Was Marke suchedisco	ulaan O la /3	7.0)
				.o cm)
+			giit (DDII),	
		-		
	-	Sapling/Shrub - Woody plants,	excluding vir	nes, less
	_	than 3 in. DBH and greater than	3.28 ft (1 m)	tall.
= Total C	over			
		of size, and woody plants less th	an 3.26 it tail	
		Woody vine - All woody vines of	reater than 3	3.28 ft in
		The state of the s		SERVICE SOURCES
		_		
-	-	-		
		Hydrophytic		
	-	Vegetation		
		Present? Yes	X No	
= Total C	over			
	= Total C	= Total Cover	Prevalence Index = Hydrophytic Vegetation Indicator 1 - Rapid Test for Hydrophytic X 2 - Dominance Test is > 50% 3 - Prevalence Test is ≤ 3.0¹ 4 - Morphological Adaptations data in Remarks or on a set of the present, unless disturbed or the present, unless disturbed or the present, unless disturbed or the present of	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is > 50% 3 - Prevalence Test is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate sheet data in Remarks or on a separate sheet problematic Hydrophytic Vegetation¹ (Explain Indicators of hydric soil and wetland hydrological be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7 or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines and in DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, reof size, and woody plants less than 3.28 ft tall Woody vine – All woody vines greater than 3 height. Hydrophytic Vegetation Present? Yes X No

Sampling Point: _wdog001_u

Depth	ription: (Describe Matrix		R	edox Featur						
(inches)	Color (moist)	%	Color (moist)	_ %	Type ¹	Loc ²	Texture	Rem	arks	
0-4	10yr3/4	100			N/A	N/A	Clay Loam			
4-16	_10yr5/4	100			N/A	N/A	Clay Loam			
	-									
				-						
				-						
ype: C=C	oncentration, D=De	epletion, RM=F	Reduced Matrix, 0	CS=Covered	d or Coate	d Sand G	rains. 2	Location: PL=Pore Li	ning, M=Ma	atrix.
	Indicators:		,				and the same	ators for Problematic	705 D. N. 100	1000 0004
Histos	sol (A1)		Dark Surf	ace (S7)				2 cm Muck (A10) (M	LRA 147)	
Histic	Epipedon (A2)		Polyvalue	Below Surf	ace (S8)	MLRA 14	7, 148)	Coast Prairie Redox	(A16)	
Black	Histic (A3)		Thin Dark	Suface (S9) (MLRA	147, 148)		(MLRA 147, 148)		
Hydro	ogen Sulfide (A4)			eyed Matrix				Piedmont Floodplain)
	fied Layers (A5)			Matrix (F3)	-0-2		-	(MLRA 136, 147		
	Muck (A10) (LRR I	N)		ark Surface	(F6)			Red Parent Material		
	eted Below Dark Su			Dark Surfac			-	Very Shallow Dark S		12)
	Dark Surface (A12			epressions (-	Other (Explain in Re		
	y Mucky Mineral (S			ganese Mas		(LRR N.		seed to be a model of the latest the latest to be	and the second	
	LRA 147, 148)		MLRA		(,)	,				
	y Gleyed Matrix (s4	4)		urface (F13)	(MLRA	36, 122)	240	101 2010 21 4 10		92
	y Redox (S5)	*		Floodplain				ators of Hydrophytic v		
Contract Co.	ped Matrix (S6)			- zapienii	(, ,,	, (WO	land hydrology must burbed or problematic.		urries
	Layer (if observed	i):					4101			
Type: Depth (in	•		_		Нус	lric Soil P	resent?	Yes	No _	Х
emarks:										
	not present									
	W.									

wdog001_u



Upland data point wdog001_u facing east



Upland data point wdog001_u facing south

wdog001 soils



Upland/wetland

WETLAND DETERMINATION DATA FORM	- Eastern Mountains and Piedmont Region
Project/Site VI Supply Hondon City/C	ounty: Dollar Sampling Date: 4-14-15
Applicant/Owner:	State: WV Sampling Point: WDOGOO
Investigator(s): J. Duncian, D. Brame Section	on, Township, Range:
Landform (hillslope, terrace, etc.): bottom land Local reli	ief (concave, convex, none): Longer Slope (%): O
Subregion (LRR or MLRA): P Lat: 39° /1.′ 05.	96" Long: 80°34'29.67" Datum: USS 84
Soil Map Unit Name: Sensabaugh	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem.	
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Heavy recent rains All three parameters present	Is the Sampled Area within a Wetland? Yes No No
	·
HYDROLOGY Westland Hydrology Indicators	Secondary Indicators (minimum of two required)
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) 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) True Aquatic Plants Hydrogen Sulfide Of Presence of Reduce Recent Iron Reducti Thin Muck Surface of Other (Explain in Reference of Reduce) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) dor (C1) res on Living Roots (C3) Moss Trim Lines (B16) do Iron (C4) Ion in Tilled Soils (C6) (C7) Emarks) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) X Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No Depth (inches): 30	irtice /
Saturation Present? Yes No Depth (inches): 5	UT FACE Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	
Low lying area within Ac	scaplain
	·
1	

EGETATION (Four Strata) - Use scientific	names or plants.	Sampling Point:
20	Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30)	% Cover Species? Status	Number of Dominant Species 5
Hotonus occidentalis Fraxinus ponnsylvanica	15 FACH	
CANYA alba	2 NI	1 Otal Number of Dominant
Apr rubrum		Species Across All Strata: (B)
		Percent of Dominant Species That Are OBL FACW, or FAC: LOO (A/B)
)		That Are OBL, FACW, or FAC: VOC (A/B)
		Prevalence Index worksheet:
	77 Total Cover	Total % Cover of: Multiply by:
50% of total cover: \3	.5 27 = Total Cover 20% of total cover: 5.2	OBL species x 1 =
Sanling/Shruh Stratum (Plot size: 20)		FACW species x 2 =
Symploxus tractoria	5 FAC	FAC species x 3 =
Rusa multiflore	2 FACU	FACU species x 4 =
		UPL species x 5 =
1		Column Totals: (A) (B)
4		Drovolonoo Indov P/A -
4-4		Prevalence Index = B/A =
1		- Hydrophytic Vegetation indicators: - 1 - Rapid Test for Hydrophytic Vegetation
3		2 - Dominance Test is >50%
),		3 - Prevalence Index is ≤3.0 ¹
-	= Total Cover	4 - Morphological Adaptations (Provide supporting
	3.5 20% of total cover: 1.4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	20 1/ 500	Durble metic Undrephytic Veretation (Evaluis)
1. Unoclea sensibilis		
2. Juneus ettusus		I Indicators of hydric soil and wetland hydrology must
3. Microstegium vininea		be proserie, arriess distarted or problemation
4. Carex comosa 5. Senecio almbellus		- Dellilligotts of Four vegetation strata.
6. Rubus argutus	10 = 000	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
0		more in diameter at breast height (DBH), regardless of
7 8		height.
		3ability/3illub - woody plants, excluding vines, less
9 10		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11		
· · ·	75 = Total Cover 10	 Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:	7-5 20% of total cover:	
Woody Vine Stratum (Plot size: 30)		Woody vine – All woody vines greater than 3.28 ft in height.
1		no.ym
2. 17/10E/		-
3. 100		_
4		- Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes V No
50% of total cover: _	20% of total cover:	_
Remarks: (Include photo numbers here or on a separ	rate sheet.)	
	,	
	,	

C	0	ı	ı
. 7	L J	1	1

WOOLOUS	o
Sampling Point:	$\widetilde{\mathbb{W}}$

Profile Desc	ription: (Describe to	o the depti	n needed to docum	ent the in	dicator	or confirm	the absence	of indicato	ors.)	
Depth	Matrix (color)			Features	~1		Tankuna		Remarks_	
(inches)	Color (moist)		Color (moist)	720	Type ¹	Loc²	Texture		Remarks	
12 184			104R416+5/8	-		<u>m_</u>	CLAYLO		····	
13-18	10 4/4		LOYR 3/3	720	<u> </u>	2m	CLAY	wan		
								. <u></u>		
				-						
										
							·			
								-		
					·					
								-		
	oncentration, D=Dep	etion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.			ing, M=Matrix.	3
Hydric Soil									roblematic Hydr	1
Histoso			Dark Surface		aa (CO) (I	MI DA 447			(A10) (MLRA 147)
	pipedon (A2) istic (A3)		Polyvalue Be Thin Dark St				, 140)	(MLRA 1	e Redox (A16) 47, 148)	
	en Sulfide (A4)		Loamy Gleye			,,	-		loodplain Soils (F	19)
	d Layers (A5)		Depleted Ma					(MLRA 1		
	uck (A10) (LRR N) d Below Dark Surfac	o (A11)	Redox Dark Depleted Da						w Dark Surface († ain in Remarks)	IF12)
	ark Surface (A12)	c (ATT)	Redox Depre				_	Other (Expir	alli ili Kelilaiks)	
	Mucky Mineral (S1) (L	RR N,	Iron-Mangar			(LRR N,				
1	A 147, 148)		MLRA 13	•			2.			
Sandy Sandy	Gleyed Matrix (S4)		Umbric Surface Piedmont FI						nydrophytic veget ology must be pre	
	d Matrix (S6)		Red Parent						bed or problemat	
	Layer (if observed)				/ (
Type:			· · · · · · ·						\/	
Depth (ir	nches):						Hydric So	oil Present?	Yes _X	No
Remarks:										
	11 ^		1	Λ						
	Hudric:	Soil) Dreson	° 4)-	7					
			Pleser	4						
										1
										i
l										

wdog005e_w



Wetland data point wdog005e_w facing east



Wetland data point wdog005e_w facing south

WEILAND DETERMINATION DATA FORM - Eastern	Mountains and Piedmont Region				
Project/Site: DT Supply Lendor City/County: D	ODD Sampling Date: 4-14-15				
	State: VV Sampling Point: WDOGO				
Investigator(s): J. Duncon, O. Brane Section, Township	p, Range:				
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave	, convex, none): <u>Nono</u> Slope (%): <u>2 - 10</u>				
Subregion (LRR or MLRA): P Lat: 39° 11' 06.34"	Long: 80° 34′ 29.51" Datum: (D658L				
r i	NWI classification: NOVE				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes					
Are Vegetation, Soil, or Hydrology significantly disturbed?					
Are Vegetation, Soil, or Hydrology naturally problematic?					
SUMMARY OF FINDINGS – Attach site map showing sampling po					
V V V V V V V V V V V V V V V V V V V	mic locations, a anisocio, important location co, etc.				
Hydric Soil Present? Yes No within a Westland Hydrology Present? Yes No					
Recent Henry Pains Not all the parameters press					
Ant of the same to a property	24				
1001 all that parameters pleas					
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)				
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2) Recent Iron Reduction in Tilled					
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	Microtopographic Relief (D4)				
Aquatic Fauna (B13)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No Depth (inches);					
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	pections), if available:				
Remarks:					
No hydrology present	·				
·					
	•				

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

Sampling	Point:	5	U
Januania	F OHE.		

20	Absolute Dominant Inc	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Status	Number of Dominant Species
1. Carya alba	12 K 1	IL	That Are OBL, FACW, or FAC: (A)
2. Quercus rubra	15	FACU	
3. Querus alba	- 	ACU	Total Number of Dominant
			Species Across All Strata: (B)
4. Prunus serotina	- 	ACU	Percent of Dominant Species 1.1.7
5. Kinus echinata	<u> </u>	ACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 11 (A/B)
6	_		
			Prevalence Index worksheet:
7	1-6		Total % Cover of: Multiply by:
37	65 = Total Cover	17	OBL species x 1 =
	\$ 20% of total cover:_	<u> </u>	
Sapling/Shrub Stratum (Plot size: 30)	21		FACW species x 2 =
1. Fagus armaitolia	25 V/ F	ACU	FAC species x 3 =
2. Rosa multiflora	15	FACU	FACU species x 4 =
3. Cornus florida		ACU	UPL species x 5 =
Day at a factor	- 		Column Totals: (A) (B)
4. Prunus scrotma		ACU	Column Fotals: (7)
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1
8			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
9			3 - Prevalence Index is ≤3.0¹
^ 7	= Total Cove	11	4 - Morphological Adaptations (Provide supporting
	5 20% of total cover:	77	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	_	-	1
1. Senecio abouata	20	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Potentilla simplex	10	FACU	
3. Pohotichum acrostoides	16	FAW	Indicators of hydric soil and wetland hydrology must
Tolland Costoracs	- - - - - - - - - - -		be present, unless disturbed or problematic.
4. Trifolium repens		FACY	Definitions of Four Vegetation Strata:
5. Verbascum thaspus		FALL	
6. Thatictrichum thatictroides	55_	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7			height.
l .			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
	_60 = Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of total cover:	12	
Woody Vine Stratum (Plot size: 30)	2070 OF TOTAL COVER.		Woody vine - All woody vines greater than 3.28 ft in
woody vine stratum (Plot size:	~ ./	F0 (height.
1. Rhus radicans	<u>5</u> <u>V</u>	FAC	
2			
3			
4			-
			Hydrophytic
5			Vegetation Present? Yes No
	5 = Total Cov		Present? Yes No
50% of total cover: 2	.5 20% of total cover:	1	-
Remarks: (Include photo numbers here or on a separat	te sheet.)		
		•	

•		

Sampling Point: _______

Profile Desc	ription: (Describe t	o the depth ne	eded to docume	ent the indicate	or or confirm	the absence	e of indicator	rs.)	
Depth	Matrix	···	Redox	Features					
(inches)	Color (moist)	<u>%</u> C	olor (moist)	% Type	Loc ²	Texture		Remarks	
0-1	104R 3/3					LOAM	<u> </u>		
1-10	104R 4/4					Lown			
10-18+	104R416				CLA	YLOAN	1		
<u> </u>						,			
	***			,				·····	
									
¹ Type: C=C	Concentration, D=Dep	letion, RM=Red	uced Matrix, MS	=Masked Sand	Grains.	² Location:	PL=Pore Lini	ng, M=Matrix.	
1 -	Indicators:							roblematic Hyd	į.
Histoso	• •	_	_ Dark Surface					A10) (MLRA 14	7)
	ipipedon (A2)	***		ow Surface (S8		148)	Coast Prairie		
	listic (A3) en Sulfide (A4)	_		face (S9) (MLF	(A 147, 148)		(MLRA 14	00, 148) Dodplain Soils (E10)
	ed Layers (A5)	_	Loamy GleyedDepleted Mate			_	MLRA 13)		F 19)
	luck (A10) (LRR N)	_	_ Redox Dark S					v Dark Surface	(TF12)
	ed Below Dark Surfac	e (A11)	_ Depleted Dark					in in Remarks)	
	ark Surface (A12)		_ Redox Depre						
Sandy	Mucky Mineral (S1) (L	_RR N,	_ Iron-Mangane	ese Masses (F1	2) (LRR N,				
	A 147, 148)		MLRA 136						
	Gleyed Matrix (S4)			ce (F13) (MLR/				ydrophytic vege	
	Redox (S5)	-		odplain Soils (F			•	ology must be p	
	d Matrix (S6)		Red Parent M	laterial (F21) (N	ILRA 127, 14	7)	unless disturb	oed or problema	itic.
1	Layer (if observed)	į]
Type:									×
	nches):					Hydric	Soil Present?	Yes	No _C
Remarks:		,		_					
	4.0	\wedge	· (4				
	No	Nyell	ic Sae	s pre	Sont				
		\mathcal{O}		1					
1									

wdog005_u



Upland data point wdog005_u facing east



Upland data point wdog005_u facing south

wdog005 soils



Wetland/upland soils

WEILAND DETERMINATION DATA FORM – Eastern Mountains and Pledmont Region
Project/Site: DT1 Supply Hender City/County: Dodomage Sampling Date: 10-21-1
Applicant/Owner: State: WV Sampling Point: W DO HC
Investigator(s): DDWEST Section, Township, Range: None
Landform (hillslope, terrace, etc.): Dollar And Local relief (concave, convex, none): None Slope (%):
Subregion (LRR or MLRA):
0 0 0 0
Soil Map Unit Name: Densaba ugh Silt town 3 8 2 Stope NWI classification: PEM Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: All thee parameters present
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)
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)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No Depth (inches): 44
Saturation Present? Yes No Depth (inches): 5UTALC Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

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

50% of total cover: 2.5

50% of total cover: 2-5

50% of total cover:

50% of total cover: ___

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

1088

Absolute Dominant Indicator

% Cover Species? Status

= Total Cover

= Total Cover

= Total Cover

= Total Cover

20% of total cover:

___ 20% of total cover:_

20% of total cover:

20% of total cover:

DBL

5 ~

Tree Stratum (Plot size: 30 H

Sapling/Shrub Stratum (Plot size: 3016)

1. SALIX MANA

1. SAIX NIGHA

Herb Stratum (Plot size:

Woody Vine Stratum (Plot size:

10.

Sampling Point: WDO HOO3 e___ Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ x 2 = ___ ____ x 3 = ___ FAC species FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% __ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in Hydrophytic Vegetation Yes _____ No ____ Present?

IIC	Army	Corps	of	Engir	nore

CAMI	

Sampling Point: _____

Profile Description: (Describe to the di	epth needed to document the indicator or confirm	the absence of indicators.)
DepthMatrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
D-6 104R 4/1	104R4/6 72 C M.PL	- OKAM
6-16+ 104R 4/2	104R416 75 C M.PL	CLAYLOAM
		CTT CONTT
	,	
·		
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
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) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	
Restrictive Layer (if observed):	Nod 1 dront Material (121) (MENA 127, 147	, anos distance of problemator
Restrictive Layer (if observed):	Nod 1 disht Matchai (121) (MENA 127) 147	, anos distance of prosonato.
Restrictive Layer (if observed): Type:	Nod Fallott Matchal (F21) (MENA F27) 147	×
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type:		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydra sol present	Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No

wdoh003e_w



wdoh003e_w facing south



wdoh003e_w facing east

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region _ City/County: _ Dodardao Sampling Date: (0-21-)L Project/Site: D(1 Supply Lendor State: WV Sampling Point: W DO HOO? Applicant/Owner: Dominuon Investigator(s): DA WEST Section, Township, Range: Landform (hillslope, terrace, etc.): Hillslope ____ Local relief (concave, convex, none): Lat: 39° 11' 08,743" Long: 80° 34" Subregion (LRR or MLRA): Silt loom 3-820 stopes Soil Map Unit Name: Sens abough NWI 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? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: Not all thee parameters 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) __ Sparsely Vegetated Concave Surface (B8) ___ Surface Water (A1) __ True Aquatic Plants (B14) __ 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 Aguitard (D3) __ Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches): Water Table Present? No Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology present

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

(WD0H003.
Sampling Point:	- U

rederation (rour strata) - ose scientific in	arries or plants.	Sampling Folia.
M	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 300)	% Cover Species? Status	Number of Dominant Species
1,		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		
		Percent of Dominant Species 50
5		That Are OBL, FACW, or FAC: (A/B)
6		B
7		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50% of total covers	20% of total cover:	OBL species x 1 =
30% of table cover.	20% of total cover	OBL species x 1 = FACW species D x 2 = 70
Sapling/Shrub Stratum (Plot size: 30+1		FAC species 15 x3 = 75
1		
2		FACU species
		UPL species x 5 =
3		Column Totals: 100 (A) 355 (B)
4		
5		Prevalence Index = B/A = 3.55
6		rievalence much - biA =
		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50% , NO
9,		3 - Prevalence Index is ≤3.0¹ NO
	= Total Cover	
50% of total cover:		4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 10 4)	20% of total cover	data in Remarks or on a separate sheet)
	Va / 1	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Dadylis glomorata	50 FACU	
2. Microstegium Viminea	25 V FAC	
3. Verbasina occidentalis	15 PACU	¹Indicators of hydric soil and wetland hydrology must
s. Ver resona occidences	TO STATE	be present, unless disturbed or problematic.
4. Agrimonia parvittora	LD PACW	Definitions of Four Vegetation Strata:
5		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
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,	150	Herb - All herbaceous (non-woody) plants, regardless
~~	100 = Total Cover	of size, and woody plants less than 3.28 ft tall.
	20% of total cover: 20	Mandy vine All woods vines greater than 2.20 ft in
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3.28 ft in height.
		neight.
1		
2		
3		
4		
		Hydrophytic
5		Vegetation Present? Yes No
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate	sheet.)	

C	0	н	
2	u	11.	_

Sampling Point: ______

Profile Description: (Describe to the d	lepth needed to document the indicator or confirm	the absence o	of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Toyture	Domarka
A second	Color (moist) % Type Loc	<u>Texture</u>	Remarks
0-16+ 184R4/3		lown	
		-	
		-	
		Y 	
Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil Indicators:			tors for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2	cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,		past Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Pi	edmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		ery Shallow Dark Surface (TF12)
 Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 		_ 0	ther (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	3Indi	cators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14		land hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14		ess disturbed or problematic.
Restrictive Layer (if observed):		Ť	
Туре:			N 0
Depth (inches):		Hydric Soil	Present? Yes No
Remarks:			1127-425-600-044412
	/	0	
	No hydric soils pro	2101	•
	The second pla	comp	

wdoh003_u



wdoh003_u facing west



wdoh003_u facing north

wdoh003_u



wdoh003 soil

WETLAND DETERMINATION DATA FORM – Eastern Mountains	and Piedmont Region
Project/Site: Dil Supply Hender City/County: Dollard	cee Sampling Date: 1-15-13
Applicant/Owner: Dominion	State: WV Sampling Point: WPOGO
Investigator(s): UD WEST Section, Township, Range:	4
Landform (hillslope, terrace, etc.): Bollom hand Local relief (concave, convex, none)): <u>con sue</u> Slope (%):
Subregion (LRR or MLRA): P Lat: 39°/2' 4.78" Long: 80°	35'28.64" Datum: WES 8"
Soil Map Unit Name: Bandalia	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? YesNo (If	
Are Vegetation, Soil or Hydrology significantly disturbed? Are "Normal C	
	plain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No	Yes No
Recent heavy mens	
Recent heavy mens All three parameters present	
HYDROLOGY	
	Secondary Indicators (minimum of two required)
	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
	Moss Trim Lines (B16)
	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) This Music Cortons (C7)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
	Stunted or Stressed Plants (D1)
	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
	X FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes NoX Depth (Inches):	
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Output Depth (inches): Outp	- ^
Saturation Present? Yes No Depth (inches): SUPFACE Wetland H	lydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ilable:
Remarks:	
_	
Hydrology present	

Sampling Point: UDOCOOL VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species FACE 1. U mus amen conce That Are OBL, FACW, or FAC: 10 Acer rubnum Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: 55 = Total Cover OBL species ____ x 1 = ___ 50% of total cover: 27-5 20% of total cover: FACW species _____ x 2 = _____ Sapling/Shrub Stratum (Plot size: ろの FAC species _____ x 3 = _____ 1. 1) mus americana FACU species _____ x 4 = _____ UPL species ___ x 5 = ___ Column Totals: (A) ___(B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.01 20 = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 10 20% of total cover: data in Remarks or on a separate sheet) Herb Stratum (Plot size: __ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must AVEX COMOSA be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** 10 Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 10._ 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: 20% of total cover: Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: 30) Hydrophytic Vegetation Present? = Total Cover 50% of total cover: ___ _ 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.)

SOIL	· .

IL			Sampling Point:
		e depth needed to document the indicator or	confirm the absence of indicators.)
epth nches)	Matrix Color (moist)	Redox Features Color (moist) % Type¹	Loc ² Texture Remarks
-3	101R4/3	104R 4/6 720	Smo
90	104R 4/2	104R4/6 720	3 san De loren
- 12	DYR 4/3	104R 4/6 710	grande / DAM.
	-		
	·		
, 			
VD0; C-C	Concentration D-Deplot	n, RM=Reduced Matrix, MS=Masked Sand Grain	is. ² Location: PL=Pore Lining, M=Matrix.
	I Indicators:	II, NIVI-Reduced Matrix, IVIS=IVIASKed Salid Grafi	Indicators for Problematic Hydric Soils ³
_ Histoso	` '	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
	Epipedon (A2)	Polyvalue Below Surface (S8) (ML	
	Histic (A3) gen Sulfide (A4)	Thin Dark Surface (S9) (MLRA 14) Loamy Gleyed Matrix (F2)	7, 148) (MLRA 147, 148) X Piedmont Floodplain Soils (F19)
	ed Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
	luck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
	ed Below Dark Surface (Dark Surface (A12)	_ ·	Other (Explain in Remarks)
_	Mucky Mineral (S1) (LR	Redox Depressions (F8) N, Iron-Manganese Masses (F12) (LI	RR N.
MLF	RA 147, 148)	MLRA 136)	
-	Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136	
-	Redox (S5) ed Matrix (S6)	Piedmont Floodplain Soils (F19) (IRed Parent Material (F21) (MLRA	
	Layer (if observed):	Toda i dione Material (121) (MESCA	TEP, 147) unicos disculsos of presionator
Туре: _			
Depth (i	inches):	······································	Hydric Soil Present? Yes No
emarks:			
	۰ (۱ ↔		
1	Wetland	soil, recently dep	rando Nivilam
		- Just 18 step	, ()
	SATURATE	To the sur Poss to	or long duration
		The supprise	
	11 0	- · O - A	
	Aydric	Soil present	
	\mathcal{O}	•	

wdog006f_w



Wetland data point wdog006f_w facing east



Wetland data point wdog006f_w facing south

WETLAND DETERMINATION DATA FORM – Eastern N	Mountains and Piedmont Region
Project/Site: DTI Supply Hendor City/County: D.	Dandage Sampling Date: 4-15-18
	State: WV Sampling Point: WDOGO
Investigator(s): DD WEST Section, Township,	
	convex none): COTA VEN Slope (%): 25-11
Subregion (LRR or MLRA): P Lat: 39° /2′ 4.70″	convex, none): <u>COTA VEX</u> Slope (%): <u>25-1</u> Long: <u>80°35′28-52″</u> Datum: <u>UV65-8</u>
Soil Map Unit Name: Banda (ca	NIAN alassification ASTARC
	NWI classification; NOTUE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes N	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic? (I	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Swithin a Wetland Hydrology Present? Yes No Swithin a Wetland Hydrology Present?	etland? Yes No No
Recont heavy rains Not all three parameters p	
Not all this same of	A
partameters p	reserv
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)
	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Sc	
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches):	
Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
	anoris, il avaliable.
Remarks:	
No hydrology present	
	•

VEGETATION (Four Strata) Use scientific names of plants.			Sampling Point:)DOG006	
Tree Stratum (Plot size: 30) Absolute Dominant Indicator % Cover Species? Status			Dominance Test worksheet:		
Tree Stratum (Plot size: SD) 1. Quercus rub ra	15	Species?	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
2. Querus alba. 3. Querus velutina	15	V/	EACU	Total Number of Dominant Species Across All Strata:	8 (B)
4. Fagues grandifolice 5. Acer rulerum	15		FACU		5 (A/B)
6. Olmus americana	ID		FACW	macAre OBE, FAOW, OF FAO.	(A/b)
7		<i></i>		Prevalence Index worksheet:	
[]0	-85	= Total Cov	/er		iply by:
50% of total cover: 42.	· <u>5</u> 20% o	f total cover	:	OBL species x 1 = FACW species x 2 =	l l
Sapling/Shrub Stratum (Plot size: 30)	10			FAC species x 3 =	
1. Openus velytima	10		NI	FACU species x 4 =	- 1
2. ROSA multiflora	10		FACU	UPL species x 5 =	i
3				Column Totals: (A)	1
4				Column rotals.	(5)
5				Prevalence Index = B/A =	
6,				Hydrophytic Vegetation Indicators:	
7,				1 - Rapid Test for Hydrophytic Veg	getation
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.01	
50% of total cover:		= Total Co		4 - Morphological Adaptations ¹ (Pi	
Herb Stratum (Plot size: 10	2070 (n total cove	''	data in Remarks or on a separa	
1. Polystichum acrostoides	3<	. /	_ EACU	Problematic Hydrophytic Vegetation	on ¹ (Explain)
2 Clar tonic incomica	20		FAC		
2. Cha tonic virginica 3. September observata	20	Ĭ	FACU	¹ Indicators of hydric soil and wetland h be present, unless disturbed or proble	nydrology must matic.
4. Microskytu vininea	_15	-	FAC	Definitions of Four Vegetation Strat	a:
5				Tree – Woody plants, excluding vines more in diameter at breast height (DB	, 3 in. (7.6 cm) or H), regardless of
7 8				height.	-
9				Sapling/Shrub – Woody plants, exclution 3 in. DBH and greater than or eq. m) tall.	ual to 3.28 ft (1
11	90	= Total Co	over /	Herb - All herbaceous (non-woody) p of size, and woody plants less than 3.	
50% of total cover:	5 20%	of total cove	1~	Woody vine – All woody vines greate height.	er than 3.28 ft in
1					
2.					
3. NUI 2				-	
4				Hydrophytic	. 1
5				Vegetation	X
50% of total cover:	20%	_ = Total C of total cov		Present? Yes No	0
Remarks: (Include photo numbers here or on a separate					
Transition (motidae priore manuscra fiere of on a separate	, 311GE(,)				
			•		

Profile Description: (Describe to the depth needed to document the ind	icator or committee	the absence o	i illulcators.)	\
Depth Matrix Redox Features				
(inches) Color (moist) % Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarl	<u>(S</u>
0-1 104R 3/3		Loam		
1-7 154R 4114		Lown		
7-18+ 104R 4/6		Loam		
10110 10111 116				
1_		2		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked S	Sand Grains.	² Location: PL	=Pore Lining, M=Ma	trix.
Hydric Soil Indicators:			tors for Problematic	-
Histosol (A1) Dark Surface (S7)	(CO) (B#1 D * 5 **		cm Muck (A10) (MLR	į.
Histic Epipedon (A2) Polyvalue Below Surface Black Histic (A3) Thin Dark Surface (S9) (148) C	oast Prairie Redox (A (MLRA 147, 148)	(10)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2		P	edmont Floodplain S	oils (F19)
Stratified Layers (A5) Depleted Matrix (F3)	-,	' '	(MLRA 136, 147)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6	s)	∨	ery Shallow Dark Sur	face (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (ther (Explain in Rema	
Thick Dark Surface (A12) Redox Depressions (F8)			•	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses	s (F12) (LRR N,			
MLRA 147, 148) MLRA 136)		2		
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (N			icators of hydrophytic	
Sandy Redox (S5) Piedmont Floodplain Sol			tland hydrology must	
Stripped Matrix (S6) Red Parent Material (F2	(1) (MLRA 127, 147	r) un	less disturbed or prob	plematic.
				
Restrictive Layer (if observed):				
Restrictive Layer (if observed): Type:				🗴
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil	Present? Yes	No <u>×</u>
Restrictive Layer (if observed): Type:		Hydric Soil	Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil	Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil	Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches):			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No <u></u>
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X
Restrictive Layer (if observed): Type: Depth (inches): Remarks:			Present? Yes	No X

wdog006_u



Upland data point wdog006_u facing east



Upland data point wdog006_u facing south

wdog006 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site:		City/C	County:	s	ampling Date:	
Applicant/Owner:				State:	Sampling Point:	
Investigator(s):		Section, Township, Range:				
			Slope (%):			
					Datum:	
Soil Map Unit Name:				NWI classificati	on:	
Are climatic / hydrologic condit						
Are Vegetation, Soil	_				sent? Yes No	
Are Vegetation, Soil				explain any answers		
SUMMARY OF FINDIN	GS – Attach	site map showing san	npling point locatio	ns, transects, i	mportant features, etc.	
Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present?	Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No	
Remarks:			<u> </u>			
HYDROLOGY						
Wetland Hydrology Indicat	ors:			Secondary Indicator	rs (minimum of two required)	
Primary Indicators (minimum		d; check all that apply)		Surface Soil Cr		
Surface Water (A1)		True Aquatic Plants (ated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10) g Roots (C3) Moss Trim Lines (B16)		
Saturation (A3)		Oxidized Rhizospher				
Water Marks (B1)		Presence of Reduce	-			
Sediment Deposits (B2)		Recent Iron Reduction				
Drift Deposits (B3)		Thin Muck Surface (0		-	ole on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rei			ssed Plants (D1)	
Iron Deposits (B5)			,	Geomorphic Pc		
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitai		
Water-Stained Leaves (F				Microtopograph	` '	
Aquatic Fauna (B13)	20)			FAC-Neutral Te		
Field Observations:					761 (20)	
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present?	Yes No	Depth (inches):	Wetland H	lydrology Present?	Yes No	
(includes capillary fringe) Describe Recorded Data (str	eam gauge, moni	toring well, aerial photos, pre	vious inspections), if avai	ilable:		
	ganage,	g, p, p	,,,			
Remarks:						

	Absolute Dominant Indicator	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
. <u> </u>		Species Across All Strata: (B)
l		Percent of Dominant Species
i		That Are OBL, FACW, or FAC: (A/B)
S		Prevalence Index worksheet:
, <u> </u>		
	= Total Cover	
	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
l		UPL species x 5 =
l <u>. </u>		Column Totals: (A) (B)
·		
5		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
3		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.0 ¹
500/ of total account	= Total Cover	4 - Morphological Adaptations ¹ (Provide supporting
	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)		Problematic Hydrophytic Vegetation ¹ (Explain)
1		<u> </u>
2		¹ Indicators of hydric soil and wetland hydrology must
3		be present, unless disturbed or problematic.
4. <u> </u>		Definitions of Four Vegetation Strata:
5		Dominione of Four Pogotation Grade
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7		more in diameter at breast height (DBH), regardless of height.
3.		no.gra.
). 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		my can.
11		Herb – All herbaceous (non-woody) plants, regardless
500/ of total account	= Total Cover	of size, and woody plants less than 3.28 ft tall.
	20% of total cover:	Woody vine – All woody vines greater than 3.28 ft in
Noody Vine Stratum (Plot size:)		height.
1		
2		
3		
4		Hydrophytic
5		Vegetation
	= Total Cover	Present?
	20% of total cover:	
50% of total cover:	20% of total cover.	

SOIL Sampling Point: _ Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Texture Color (moist) Color (moist) % Type¹ (inches) ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: ___ 2 cm Muck (A10) (MLRA 147) ___ Histosol (A1) ___ Dark Surface (S7) ___ 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) 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, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Restrictive Layer (if observed): Type: _ Hydric Soil Present? Depth (inches): _ Yes Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header F	Project	City/C	county: Doddridge		Sampling Date: 06/04/16	
Applicant/Owner: Dominion T				State: WV	Sampling Point:	
Investigator(s): KTC/LCE		Section				
Landform (hillslope, terrace, e						
Subregion (LRR or MLRA):	RR N	Lat:	Long:		Datum:	
Cail Man Unit Name:		_ Lat	Long	NIVA(1 -1:4:		
Soil Map Unit Name:						
Are climatic / hydrologic condi						
					present? Yes No	
Are Vegetation, Soil _	, or Hydrology	naturally problema	atic? (If needed, ex	xplain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	IGS – Attach si	te map showing san	pling point location	ns, transects	s, important features, etc.	
Hydrophytic Vegetation Pres	eent? Ves	No ✓				
Hydric Soil Present?		No✓	Is the Sampled Area	V = =	N- 1	
Wetland Hydrology Present?		No ✓	within a Wetland?	Yes	No <u>√</u>	
Remarks:						
located at the toe of a hillslop	e directly abutting a	a floodplain				
	, ,	·				
HYDROLOGY						
Wetland Hydrology Indicat	ors:			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum		check all that apply)		Surface Soil		
Surface Water (A1)		True Aquatic Plants (getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Patterns (B10)		
Saturation (A3)		Oxidized Rhizospher		Moss Trim L		
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction	n in Tilled Soils (C6)			
Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				✓ Geomorphic	Position (D2)	
Inundation Visible on Ae	,			uitard (D3)		
Water-Stained Leaves (B9)				aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutra	l Test (D5)	
Field Observations:		1				
Surface Water Present?		✓ Depth (inches):				
Water Table Present?		✓ Depth (inches):			,	
Saturation Present? (includes capillary fringe)	Yes No _	✓ Depth (inches):	Wetland H	ydrology Prese	nt? Yes No_ ✓	
Describe Recorded Data (str	ream gauge, monito	ring well, aerial photos, pre	vious inspections), if avail	lable:		
Remarks:						

		plants.		Sampling Point:
ree Stratum (Plot size:)		Dominant Species?		Dominance Test worksheet:
		Species?		Number of Dominant Species That Are OBL_FACW_or_FAC: 0 (A)
•				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant
k <u> </u>				Species Across All Strata: 2 (B)
k <u> </u>				Developed of Developed Operation
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
S				// (// (// // // // // // // // // // //
				Prevalence Index worksheet:
	0	= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 0				OBL species0 x 1 =0
451	20 /6 01	total cover.		FACW species0 x 2 =0
japing/onrab otratam (1 lot size)				FAC species 20 x 3 = 60
				,
2				1 ACO species X 4 =
3				UPL species 2 x 5 = 10
l				Column Totals:92 (A)350 (B)
i				Provolence Index - P/A - 3.8043
5				Prevalence index = D/A =
_				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
3				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
40		= Total Cove		4 - Morphological Adaptations ¹ (Provide supportin
50% of total cover:10	20% of	total cover:	4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				• • • • • • • • • • • • • • • • • • • •
1. Festuca rubra	40	Y	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Trifolium repens	20	Υ	FACU	
Holcus lanatus	10	N	FAC	¹ Indicators of hydric soil and wetland hydrology must
Dichanthelium clandestinum	10	N	FAC	be present, unless disturbed or problematic.
Rubus argutus		N	FACU	Definitions of Four Vegetation Strata:
Galium aparine	5	N	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
J				more in diameter at breast height (DBH), regardless of
. Leucanthemum vulgare		N	UPL	height.
3				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.
14				Horte All borbossos (see superbol) plants respective
		= Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 46		total cover:		or orzo, and woody plante look than orzo it tall.
Noody Vine Stratum (Plot size:)	2070 01	10101 00101.		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cove	er	Present? Yes No
50% of total cover:	20% of	total cover.		

SOIL Sampling Point: _____

Profile Desc	ription: (Describe to	the depth r	needed to docur	nent the in	dicator	or confirm	the ab	sence of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ture	Remarks
0-12	7.5YR 4/4	60 7.5	5YR 5/8	40	С	M	Loa	am	
							-	 -	
								 _	
				·					
							-		
¹ Type: C=Ce	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Locat	ion: PL=Pore Lining,	
Hydric Soil	Indicators:							Indicators for Problem	ematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10)	(MLRA 147)
	oipedon (A2)	-	Polyvalue Be		e (S8) (N	ILRA 147.	148)	Coast Prairie Re	
	stic (A3)	-	Thin Dark Su		. , .		,	(MLRA 147, 1	, ,
	en Sulfide (A4)	-	Loamy Gleye	. ,	•	,,		Piedmont Floodp	
	d Layers (A5)	-	Depleted Ma	,	_,			(MLRA 136, 1	, ,
	ick (A10) (LRR N)	-	Redox Dark		3)				rk Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dai					Other (Explain in	
	ark Surface (A12)	. , _	Redox Depre						,
	Mucky Mineral (S1) (LI	RR N.	Iron-Mangan			LRR N.			
	\ 147, 148)	, <u>-</u>	MLRA 13		- (· · -/ (·	,			
	Gleyed Matrix (S4)		Umbric Surfa	•	/II RA 13	6. 122)		³ Indicators of hydro	phytic vegetation and
	Redox (S5)	-	Piedmont Flo				8)	wetland hydrology	
	Matrix (S6)	-	Red Parent N					unless disturbed of	
	Layer (if observed):	-	rear arener	natorial (1 2	(IVILITY	A 121, 141	,	unicoo diotarbea e	problematio.
									/
Depth (in	ches):		_				Hydr	ic Soil Present? You	es No <u></u>
Remarks:									

wdoa002e



Wetland data point wdoa002e_w



Wetland data point wdoa002e_u

WETLAND DETERMINATION DATA FORM -	- Eastern Mountains and Piedmont Region
Project/Site: DT1 Supply lender City/C	ounty: Doddridge Sampling Date: 4~15-15
Applicant/Owner: Dominion	State: W Sampling Point: 6406017
Investigator(s): T. Duncon D. Brane Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Bo dem han / Flood ocal reli	
Subregion (LRR or MLRA): P Lat: 34° 13° 9.5	4" Long: 80°36' 17.78" Datum: W65 8"
	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Y	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Sommary of Fitted Sommary States	ipmig point locations, transcets, important reactives, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Remarks:	
Recent having rains All three parameters pres	
All these prometer pass	the
All hold be successive	
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	
	dor (C1) Drainage Patterns (B10)
	res on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduce	
Sediment Deposits (B2) Recent Iron Reduction Drift Deposits (B3) Thin Muck Surface (· · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Other (Explain in Re	
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)	A FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	40
Saturation Present? Yes No Depth (inches): 5	UPGACE Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
) () (Ω
Hydrology prese	nt ·
	•
·	

EGETATION (Four Strata) - Use scientific	names of plants.	Sampling Point: (JPOGOO7,
76	Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30)	% Cover Species % Status DBL	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
Platanus occidentalis	15 V FACW	Total Number of Dominant Species Across All Strata: (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
	72	Total % Cover of: Multiply by:
	Total Cover	OBL species x 1 =
	20% of total cover:	
apling/Shrub Stratum (Plot size: 30		FACW species x 2 =
Rosa multiflora	IS V, FACE	FAC species x 3 =
S. Indiana	10 V OBL	FACU species x 4 =
JAIIX Major		UPL species x 5 =
		i i
		Column Totals: (A) (B)
·		Distribution Indox D/A
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.01
	$\frac{25}{}$ = Total Cover $\frac{2}{}$	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	2.5 20% of total cover: 5	1
erb Stratum (Plot size:)		data in Remarks or on a separate sheet)
Ros Carex comosa	35 V BL	Problematic Hydrophytic Vegetation ¹ (Explain)
M Combia		
Microskarum viminea	35 \sqrt{FAC}	¹ Indicators of hydric soil and wetland hydrology must
- Rocopa caroliniana	<u>3</u> DBL	be present, unless disturbed or problematic.
<u> </u>		Definitions of Four Vegetation Strata:
		Definitions of Four vegetation offata.
\(\text{\tint{\text{\tint{\text{\tinit}\\ \text{\texit{\text{\texi}\tinz{\text{\texi}\text{\text{\texi}\text{\texitin}\text{\text{\text{\text{\texit{\text{\texit{\texitilex{\tiint{\texit{\texi{\texictex{\tint}\texit{\texit{\texi{\texi{\texi{\texi{\tex{		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
0		m) tall.
1,	76	Herb - All herbaceous (non-woody) plants, regardless
2*	Total Cover	of size, and woody plants less than 3.28 ft tall.
20	20% of total cover: \S	Woody vine - All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size:		height.
,		
)		•
- 180 B		-
3·		-
1		- Hydrophytic
5.		Vegetation
	= Total Cover	Present? Yes No
50% of total cover:		
Remarks: (Include photo numbers here or on a separa	ate sneet.)	

SOIL

Sampling Point:

Profile Desc	cription: (Describe to	o the depth	needed to docur	nent the in	dicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			x Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-3	104R4/3						LOAM			
3-98	104R 4/2		104R4/6+	98720	\mathcal{L}	M.PL	LOAM	L		
14-14+	1BYR 4/2		IMUD-41/1				10Am			
	1011-11.5		1011 1/4	IFO		7/1	LUATA		······································	
										
	· <u></u>									
				· 						
17.ma. C. C	Concentration D. Deni		Darley and Adams. Re	10 14-4-3			21	Dave Lie	: NA NA-A-:	
	Concentration, D=Dept	ietion, Rivi=i	reduced Matrix, IV	IS=Masked	Sand Gr	ains.			ing, M=Matrix. roblematic Hyd	ric Soils ³ :
1			Davis Courters	- (07)					-	}
Histoso	Epipedon (A2)		Dark Surfac Polyvalue B		o (S9) (I	MI DA 147			A10) (MLRA 14 7 e Redox (A16)	''
	Histic (A3)		Thin Dark S				140) 0	(MLRA 14		
	en Sulfide (A4)		Loamy Gley			,	\mathcal{K}_{P}		oodplain Soils (F	19)
	ed Layers (A5)		Depleted M		,		-	(MLRA 1		
	luck (A10) (LRR N)		Redox Dark		6)				w Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted D				c	other (Expla	ain in Remarks)	
	Dark Surface (A12)		Redox Dep							
	Mucky Mineral (S1) (L	_RR N,	Iron-Manga		es (F12)	(LRR N,				
	RA 147, 148)		MLRA 1		8 42 Po 0 4	00 400)	31		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	tation and
	Gleyed Matrix (S4) Redox (S5)		Umbric Sur Piedmont F						nydrophytic vege ology must be pr	
	ed Matrix (S6)		Red Parent						bed or problema	
	Layer (if observed):			material (i	217 (1112)	127, 147	7,	iloss distair	od or problema	
Type:							į.			
	nches):						Hydric Soi	l Dracant?	Yes	No
Remarks:	nones).						Hydric 301	i Fieseiit:	163/2	
Remarks:										
	11 0		. ()	0						
	Aydn	2500	Il pres	tense	_					
	0		. /	`						
ļ										
1										

wdog007e_w



Wetland data point wdog007e_w facing east



Wetland data point wdog007e_w facing south

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region City/County: Dolor Los Project/Site: DTI Supply Hendor Applicant/Owner: Dominioz Sampling Point: Investigator(s): Brame Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): ___ Lat: 39° 13' 9.57" __ Long: _ 80° Subregion (LRR or MLRA): _ Soil Map Unit Name: _ Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) _ Hydrogen Sulfide Odor (C1) ___ Drainage Patterns (B10) __ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) ___ Moss Trim Lines (B16) __ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) ___ Crayfish Burrows (C8) ___ Drift Deposits (B3) Saturation Visible on Aerial Imagery (C9) ___ Thin Muck Surface (C7) __ 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? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: hydrology preser

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

LOCIATION (i our strata) - Ose scientifi		Sumpling Forms
Tree Stratum (Plot size:)	Absolute Dominant Indicator	Dominance Test worksheet:
Plant (Plot size.	% Cover Species? Status	Number of Dominant Species That Are ODI 50000 or 50000 (A)
1. Comus Stonda	5 V FACU	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across Ali Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
#00/ 51 h l	= Total Cover	OBL species x 1 =
	2.5 20% of total cover:	
Sapling/Shrub Stratum (Plpt size; 30	J /	FACW species x 2 =
1. Rosa multidioria		FAC species x 3 =
2. Eloagnus umbellata	10 V WI	FACU species x 4 =
		UPL species x 5 =
3		Column Totals:(A)(B)
4		Column rotals (r)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		, , , -
		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.01
	20 = Total Cover	4 - Morphological Adaptations (Provide supporting
50% of total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: LD)		· ·
1. Festuca proxense	_ 60 V FACE	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Allium Sinale	20 V FACU	
		¹ Indicators of hydric soil and wetland hydrology must
3. Lamium purpureum	<u>5</u> <u>WI</u>	be present, unless disturbed or problematic.
4. Dactylet glomeradus	15 FACU	Definitions of Four Vegetation Strata:
6		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of
7		height.
8		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	1177	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:	20% of total cover: 20	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
	= Total Cover	Present? Yes No
50% of total cover	: 20% of total cover:	
		·
Remarks: (Include photo numbers here or on a se	parate sneet.)	
{		
	•	
i e		

\sim		
\ ()	ı	ſ
Ju	ь	L-

Sampling Point: ______ (

Profile Description: (Describe to the depth needed to de	ocument the indicator or confirm t	ne absence of indicators.)
Depth Matrix F	Redox Features	
(inches) Color (moist) % Color (moist		Texture Remarks
0-14 10VR 4/4		lown
14-18 LOYR4/6		10km
Trung C. Concentration D. Donlotion DM Reduced Mate	iv NAC Marked Cond Crains	21 continue DI Doro Lining M. Mothiy
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matr Hydric Soil Indicators:	IX, IVIS=IVIASKED Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
	urface (S7)	2 cm Muck (A10) (MLRA 147)
	ue Below Surface (S8) (MLRA 147, 1	
	ark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4) Loamy	Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
	ed Matrix (F3)	(MLRA 136, 147)
	Dark Surface (F6) ed Dark Surface (F7)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	Depressions (F8)	Other (Explain in Remarks)
· · · · · · · · · · · · · · · · · · ·	anganese Masses (F12) (LRR N,	
MLRA 147, 148) MLF	RA 136)	
	Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
	ont Floodplain Soils (F19) (MLRA 148	
Stripped Matrix (S6) Red Pa Restrictive Layer (if observed):	arent Material (F21) (MLRA 127, 147)	unless disturbed or problematic.
Type:		Marking Style Style Style No.
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
19 / 0	` O -	-
No rudire	soil pres	en
	- 2 - , ,	
l .		ì

wdog007_u



Upland data point wdog007_u facing east



Upland data point wdog007_u facing south

wdog007 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM -	- Eastern Mountains and Piedmont Region
Project/Site: DT Supri Hendor City/C	ounty: Dockbridge Sampling Date: 4-16-15
Applicant/Owner: Dominion	U 4
Investigator(s): J. Duncan D. Brame Section	on Township Danger
Landform (hillslope, terrace, etc.): DoHom Inno Local reli	
Landiotti (fillisiope, terrace, etc.): Docarreli	er (concave, convex, none):
Soil Map Unit Name: Gilpin/Peabody Complex	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
• •	pling point locations, transects, important features, etc.
Solvinary of Findings - Attach site map showing san	iphing point locations, transects, important reactives, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Recent heavy rains All three parameters presen	
The state of the s	A-
All three parameters present	
·	
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	
★ High Water Table (A2) Hydrogen Sulfide Oc	
Saturation (A3) X Oxidized Rhizospher	
Water Marks (B1) Presence of Reduce	d Iron (C4) Dry-Season Water Table (C2)
l N a	on in Tilled Soils (C6) X Crayfish Burrows (C8)
Thin Muck Surface (
Algal Mat or Crust (B4) Other (Explain in Re	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Shallow Aquitard (D3) Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Obcornetions	
Surface Water Present? Water Table Present? Yes No Depth (inches): Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present?	
Water Table Present? Yes X No Depth (inches): 50	reface
Saturation Present? Yes No Depth (inches): \$	Cur Prec Wetland Hydrology Present? Yes No No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
11 0-1-	
Hydrology present	
	•

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

Sampling Point: W DOG 208

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
	25 \ FAC	That Are OBL, FACW, or FAC:(A)
a Former Durchling account		That the obs. The the or the
2. Fraxinus ponsylvanicum	15 - FRW	Total Number of Dominant
3. Her rubrum		Species Across All Strata: (B)
4. Ulmus americana	10 FACW	n and n and second and
5	•	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		That Ale Obl., PACW, OF PAC.
6		Prevalence Index worksheet:
7		<u> </u>
7.	7 65 = Total Cover / 7	Total % Cover of: Multiply by:
50% of total cover:	2.520% of total cover: 13	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 30)		FACW species x 2 =
1. Acer rubrum	20 V FAC	FAC species x 3 =
2. Carpinus caroliniana	- 20 - 17 - 17 - 1 - 	FACU species x 4 =
2. CARPINUS CATOLINIANA	25 V FAC	1 1
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		D. January B.
		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.01
	45 = Total Cover Q	
50% of total cover: 2 3	2-5 20% of total cover:	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 10)		data in Remarks or on a separate sheet)
Helb Stratum (Flot size.	15 V, OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Carex comosa	- 13 - 350	
2. Juncus	_10_V EACU	Indicators of hydric soil and wetland hydrology must
3		be present, unless disturbed or problematic.
4		Definitions of Four Vegetation Strata:
5		Deminions of Four Vegetation 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.
		1,
11,		Herb - All herbaceous (non-woody) plants, regardless
4-1	25 = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover 12.	5 20% of total cover: 5	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 3)		height.
1		
3		
4		•
3. X 77NC		-
4. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Hydrophytic
5		Venetation
	= Total Cover	Present? Yes No
50% of total cover	20% of total cover:	
Remarks: (include photo numbers here or on a separa	te stieet.)	
	_	
	•	
i .		

001	
NO 11	ı

WDO	26008F
Sampling Point:	$\underline{\hspace{1cm}}$

Profile Desc	ription: (Describe to	the depth ne	eded to docu	ment the in	dicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)		olor (moist)		Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-8	104R4/2		14R 5/6	220		MPL	LOAM			
8-16+	10YR 4/3	10	YR5/6	720	(m	LOAM	И		
			<i>t</i> - <i>t</i>	ي حي						
										
								· · · · · · · · · · · · · · · · · · ·		
								· 		
										
¹Type: C=C	oncentration, D=Depl	etion, RM=Red	luced Matrix, N	/IS=Masked	Sand G	rains.			ing, M=Matrix.	
Hydric Soil									roblematic Hydr	
Histoso		-	_ Dark Surfac						(A10) (MLRA 147)
	pipedon (A2)	-		Below Surfac			148)		e Redox (A16)	1
	istic (A3)	-	_ Thin Dark S			147, 148)	\checkmark	(MLRA 1		10)
	en Sulfide (A4) d Layers (A5)	7		yed Matrix (F	-2)			r leamont ہ MLRA 1)	loodplain Soils (F	19)
	uck (A10) (LRR N)	,	Depleted M	iatrix (F3) < Surface (F	6)			•	36, 147) w Dark Surface (1	F12)
	d Below Dark Surface	- (A11)		ark Surface					ain in Remarks)	11.12)
	ark Surface (A12)	_		ressions (F				Other (=xpr	un, m. 1 tou.,	
	Mucky Mineral (S1) (L	.RR N,	Iron-Manga			(LRR N,				
MLR	A 147, 148)	_	MLRA 1		, ,					
	Gleyed Matrix (S4)	_	Umbric Sur	face (F13) (MLRA 1	36, 122)	³lr	ndicators of	hydrophytic veget	ation and
	Redox (S5)	_	Piedmont F						ology must be pre	
	d Matrix (S6)		Red Paren	t Material (F	21) (ML	RA 127, 14	7) ι	ınless distur	bed or problemati	c.
Restrictive	Layer (if observed):									
Type:			-						× 1	
Depth (in	nches):		=				Hydric Sc	oil Present?	Yes X	No
Remarks:										
	. 1	ſ)		\cap					
	Hudas	< a >	1 Dno	DOM	7	- -				
	Hydnz		, M =	,	•					
	\circ									
1										

wdog008f_w



Wetland data point wdog008f_w facing east



Wetland data point wdog008f_w facing south

WEILAND DETERMINATION DATA FORM	- Eastern Mountains and Piedmont Region
Project/Site: DTI Supply Hender City/C	County: Decounties Sampling Date: 4-16-15
Applicant/Owner: Dominion	State: WV Sampling Point: WD0608
Investigator(s): J. Duncan, D. Brame secti	ion, Township, Range:
	lief (concave, convex, none): Convex Slope (%): 30-48
Subregion (LRR or MLRA): P Lat: 39°/3′3	30.19" Long: 80°36'32.55 Datum: 6584
Soil Map Unit Name: <u>Gilpin/Penbody</u> Compl	
Are climatic / hydrologic conditions on the site typical for this time of year?	
•	· · · · · · · · · · · · · · · · · · ·
	irbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil or Hydrology naturally problem	· · ·
SUMMARY OF FINDINGS – Attach site map showing sai	mpling 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	
Recent honey mins	
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	
High Water Table (A2) Hydrogen Sulfide C	
	eres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduct Recent Iron Reduct Recent	ted Iron (C4) Dry-Season Water Table (C2) tion in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface	i
Algal Mat or Crust (B4) Other (Explain in R	
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):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	\cap
No hydrology	M& Sent
, sgatts taying	
1	

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover Species? Status	Number of Dominant Species
1. Querus rusca	15 V FACU	That Are OBL, FACW, or FAC:(A)
2. Duorus alba	TS V, FACU	
3. CATUA OVATA	15 V FACU	Total Number of Dominant Species Across All Strata; (B)
4. Lindendron trelipitera		Species Across All Strata: (B)
4. Elitacunca DI ALLI pireta	15 V FACU	Percent of Dominant Species
5,		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		
	GO = Total Cover	Total % Cover of: Multiply by:
50% of total cover: <u>3</u> 2	20% of total cover: 12	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30	,	FACW species x 2 =
1. Rosa multiflora.	10 1/ FACE	/ FAC species x 3 =
2. Flaeagnus umbellata	ID FACE	/FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7.		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9,		3 - Prevalence Index is ≤3.01
	ZO = Total Cover	4 - Morphological Adaptations (Provide supporting
50% of total cover:	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:	75 / 500	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Polystrchem acrostoidos		
2. Packera ObovATA	<u>5</u> <u>Pac</u>	¹ Indicators of hydric soil and wetland hydrology must
3,		be present, unless disturbed or problematic.
4		Definitions of Four Vegetation Strata:
5		_
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7		more in diameter at breast height (DBH), regardless of 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		
11	70	Herb – All herbaceous (non-woody) plants, regardless
500/ 254441 2000	30 = Total Cover	of size, and woody plants less than 3.28 ft tall.
	20% of total cover:	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)		height.
1		
2		
3		,
4		Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate	e sheet.)	
	,	

611	•
- N. J	* 1

Sampling Point: ____

·	depth needed to document the indicator or	confirm the absence of indicators.)	
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks	
	Color (moist) % Type		
0-10 104R 3/4 _			
10-18+ 104R5/6		10m	
			
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, MS=Masked Sand Grain	ns. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils	s°:
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (ML		
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 14		
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 (A12)Thick Dark Surface (A12)	···	Other (Explain in Remarks)	
Sandy Mucky Mineral (S1) (LRR N	Redox Depressions (F8)Iron-Manganese Masses (F12) (LI	DD N	
MLRA 147, 148)	MLRA 136)	IN IN	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136	3 Indicators of hydrophytic vegetation at	and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (I		
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA		
Restrictive Layer (if observed):			
Type:			
Depth (inches):		Hydric Soil Present? Yes No	X
		Trydric Son Present: Tes Nag	
Remarks:)	
w)~	hydriz soil pr	0500	
	ryanz son p	Design	
	9		

wdog008_u



Upland data point wdog008_u facing east



Upland data point wdog008_u facing south

wdog008 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header P	roject	City/C	County: Doddridge		Sampling Date: 06/04/16
Applicant/Owner: Dominion Tr				State: WV	Sampling Point:
Investigator(s): KTC/LCE			on, Township, Range:		
					Slope (%): 3
Subregion (LRR or MLRA): LR	RN ₁	at:	Long:		Datum:
Sablegion (Little of Military).		.ai	Long	NIMI alaasifi	Batum
Soil Map Unit Name:					
Are climatic / hydrologic condit					
					present? Yes No _✓
Are Vegetation, Soil					
SUMMARY OF FINDING	GS – Attach site	map showing san	npling point locatio	ns, transects	s, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes ✔	′ No			
Hydric Soil Present?			Is the Sampled Area within a Wetland?	V 1	No
Wetland Hydrology Present?		′ No	within a wettand?	res	NO
Remarks:					
This wetland is situated between	en an oil/gas facility a	access road and an inter	mittent stream.		
	,				
HYDROLOGY					
Wetland Hydrology Indicate	ors:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is required; ch	eck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	_	True Aquatic Plants (getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od			atterns (B10)
✓ Saturation (A3)		Oxidized Rhizospher		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	n in Tilled Soils (C6)	Crayfish Bui	rrows (C8)
Drift Deposits (B3)	_	Thin Muck Surface (C	C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	_ Other (Explain in Rer			Stressed Plants (D1)
Iron Deposits (B5)				✓ Geomorphic	, ,
Inundation Visible on Ae				Shallow Aqu	
✓ Water-Stained Leaves (E	39)				aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutra	l Test (D5)
Field Observations:		<i>(</i>			
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):	_		,
Saturation Present? (includes capillary fringe)	Yes <u></u> ✓ No	Depth (inches):	Wetland H	ydrology Prese	nt? Yes No
Describe Recorded Data (stre	eam gauge, monitorin	g well, aerial photos, pre	evious inspections), if avai	ilable:	
Remarks:					

EGETATION (Four Str		Λ In I '	Danis	La all t	Daminones Testeres 1 1 1		
ree Stratum (Diet eize:	30'	Absolute % Cover	Dominant Species?		Dominance Test worksheet:		
ree Stratum (Plot size: Platanus occidentalis)	15	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
					Total Number of Dominant	5	
					Species Across All Strata:		(B)
					Percent of Dominant Species That Are OBL, FACW, or FAC:	80	(A/
					Prevalence Index worksheet:		
		15	= Total Cov		Total % Cover of:	/ultiply by:	
	50% of total cover:7.5		total cover:	•	OBL species120 x 1 =	120	_
apling/Shrub Stratum (Plot	4.51	2070 01	total oover.		FACW species38 x 2 =	76	
Salix nigra	3126)	10	Υ	OBL	FAC species 0 x 3 =	0	_
Juglans nigra		10	Y	FACU	FACU species 10 x 4 =	- 40	-
				17100	UPL species 0 x 5 =		-
					Of L species X 3 =	236	- ,
					Column Totals:168 (A)		_ (
					Prevalence Index = B/A =		
					Hydrophytic Vegetation Indicator		
					1 - Rapid Test for Hydrophytic	√egetation	
					✓ 2 - Dominance Test is >50%		
		20			3 - Prevalence Index is ≤3.0¹		
	500/ / 1		= Total Cov		4 - Morphological Adaptations ¹	(Provide sup	port
	50% of total cover: 10	20% of	total cover:		data in Remarks or on a ser	parate sheet)	
lerb Stratum (Plot size:)	70		ODI	Problematic Hydrophytic Veget		
Carex lurida		70	Y	OBL	r robicinatio r lydrophlytic veget	ation (Explai	,
. Carex vulpinoidea		40	Y	OBL	1		
Impatiens capensis		20	Ν	FACW	¹ Indicators of hydric soil and wetlan be present, unless disturbed or prol		nusi
Eupatorium perfoliatum		3	N	FACW			
		_			Definitions of Four Vegetation St	rata:	
•					Tree - Woody plants, excluding vin	es, 3 in. (7.6	cm)
•		-			more in diameter at breast height (E	DBH), regardle	ess
		_			height.		
					Sapling/Shrub – Woody plants, ex-	cluding vines	. les
					than 3 in. DBH and greater than or		
0		_			m) tall.		
1		_			Herb – All herbaceous (non-woody)	nlants rega	rdle
		133	= Total Cov	er	of size, and woody plants less than		· aio
	50% of total cover: 66.						
Voody Vine Stratum (Plot siz	ze:)				Woody vine – All woody vines great	iter than 3.28	ft in
					height.		
		_			Hydrophytic		
		_			Vegetation		
			= Total Cov	er	Present? Yes	No	
	50% of total cover:	20% of	total cover:				
Remarks: (Include photo num			•				
temaiks. (include prioto hum	invers riere or on a separate	311661.)					

SOIL Sampling Point: _____

Profile Desc	ription: (Describe to	o the dept	h needed to docur	ment the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks
0-8	7.5YR 4/2	80	7.5YR 5/6	20	С	PL/M	Silty Clay	í
						· ——		<u> </u>
						· ——		
			_					
								
1		tion DM	Deduced Metric M	· Maalaad			21	DI Dave Lining M Metric
	oncentration, D=Deple	etion, Rivi=	Reduced Matrix, Mi	5=IVIasked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su			147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		✓ Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F	6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L l	RR N.	Iron-Mangan			LRR N.		
	\ 147, 148)	•	MLRA 13		` , '	•		
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	6. 122)	³ lr	ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N					inless disturbed or problematic.
	Layer (if observed):		Rour alone	viatoriai (i	21) (IVILIX	A 121, 171	1	inicas disturbed of problematic.
Type: Gr								,
Depth (in	ches): <u></u> 8						Hydric Sc	oil Present? Yes <u>√</u> No
Remarks:								
Disturbed soi	Is are adjacent to road	d. oil/gas in	frastructure and an	intermitte	nt stream			
	,	, 0						

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header Project	City/County: Doddridge	Sampling Date: 06/04/16				
Applicant/Owner: Dominion Transmission, Inc.		State: WV Sampling Point:				
KTC/LCE	Section, Township, Range:					
	Local relief (concave, convex, none): none Slope (%):					
		Datum:				
Soil Map Unit Name:		NWI classification: PEM				
Are climatic / hydrologic conditions on the site typi						
		nal Circumstances" present? Yes ✓ No				
Are Vegetation, Soil, or Hydrology						
		tions, transects, important features, etc.				
		, , , , , , , , , , , , , , , , , , ,				
	No √ Is the Sampled Area within a Wetland?					
	No_ ✓ within a Wetland?	Yes No				
Remarks:	140					
Disturbed area adjacent oil/gas infrastructure, ac	sess road and intermittent stream.					
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) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	✓ 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	d Hydrology Present? Yes No✓				
(includes capillary fringe) Describe Recorded Data (stream gauge, monito)	ring well, aerial photos, previous inspections), if a	vailable:				
Remarks:						

Absolute	Dominant	Indicator	Dominance Test worksheet:		
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
			Total Number of Dominant Species Across All Strata:	5	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	20	(A/B
-			Prevalence Index worksheet:		
	Total Cov		Total % Cover of:	Multiply by:	
			OBL species x 1	= 20	_
2070 01	101ai 0010i.				_
10	Υ	FACU			
10	N			= 200	
					_
			· — —		— (B)
				0.4000	_ ` ′
					_
			, , , ,		
				c Vegetation	
20	Total Cov				
			4 - Morphological Adaptations	s1 (Provide sup	portin
2070 01	total cover.		data in Remarks or on a se	eparate sheet))
40			Problematic Hydrophytic Veg	etation ¹ (Expla	ain)
	N	FAC			
			¹ Indicators of hydric soil and wetla	and hydrology	must
			be present, unless disturbed or pr	oblematic.	
			Definitions of Four Vegetation S	Strata:	
			Tree – Woody plants, excluding vi	ines. 3 in. (7.6	cm) o
				(DBH), regard	less o
-	-		height.		
			Sapling/Shrub - Woody plants, e	excluding vines	s, less
	-			r equal to 3.28	3 ft (1
	-		,		
	- Total Cove				ardless
				eater than 3.28	8 ft in
			noight.		
			Present? Yes	No ✓	
=	= Total Cove				
20% of	total cover-				
_		Cover Species?		Species Status Number of Dominant Species That Are OBL, FACW, or FAC:	Number of Dominant Species That Are OBL, FACW, or FAC: 1

SOIL

Sampling Point: ______

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features	3		
nches)	Color (moist)		Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
8-0	7.5YR 3/4	100			Loam	
		·				
		· — — —				
		· — — —				
		· — — —				
-		· 				
		· — —				
vpe: C=C	oncentration. D=Dep	letion. RM=Re	educed Matrix, MS=Masked	Sand Grains.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators:	,	, , , , , , , , , , , , , , , , , , , ,		Indica	ators for Problematic Hydric Soils ³ :
_ Histosol			Dark Surface (S7)			cm Muck (A10) (MLRA 147)
	pipedon (A2)	•	Polyvalue Below Surfac	e (S8) (MLRA 147.		Coast Prairie Redox (A16)
	istic (A3)	•	Thin Dark Surface (S9)		, 0	(MLRA 147, 148)
	en Sulfide (A4)	-	Loamy Gleyed Matrix (F		Р	Piedmont Floodplain Soils (F19)
	d Layers (A5)	•	Depleted Matrix (F3)	-,	<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)	•	Redox Dark Surface (F	6)	V	'ery Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark Surface	,		Other (Explain in Remarks)
	ark Surface (A12)	, ,	Redox Depressions (F8	, ,		,
	Mucky Mineral (S1) (L	₋RR N,	Iron-Manganese Masse			
	A 147, 148)		MLRA 136)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Gleyed Matrix (S4)		Umbric Surface (F13) (I	MLRA 136, 122)	³ Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain So			etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Material (F2			less disturbed or problematic.
Restrictive	Layer (if observed):					
Type: Gr	ravel		_			
Depth (in	ches): 8				Hydric Soil	Present? Yes No _✓
emarks:			=		,	
cinans.						

wdoa001e



Wetland data point wdoa001e_w



Wetland data point wdoa001e_u

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region ____ City/County: _______Dwlandage Applicant/Owner: Investigator(s): DDWEST Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): 23.079" Long: 80°37'21. 294 Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes_ NWI classification: Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Are "Normal Circumstances" present? Yes SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydric Soil Present? Is the Sampled Area Wetland Hydrology Present? Yes No ____ within a Wetland? Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Surface Soil Cracks (B6) ___ True Aquatic Plants (B14) K High Water Table (A2) Sparsely Vegetated Concave Surface (B8) — Hydrogen Sulfide Odor (C1) X Saturation (A3) Z Drainage Patterns (B10) ___ Oxidized Rhizospheres on Living Roots (Q3) Water Marks (B1) __ Moss Trim Lines (B16) Presence of Reduced Iron (C4) __ Sediment Deposits (B2) ___ Dry-Season Water Table (C2) Recent Iron Reduction in Tilled Soils (C6) __ Drift Deposits (B3) ___ Crayfish Burrows (C8) Thin Muck Surface (C7) ___ Algal Mat or Crust (B4) ___ Saturation Visible on Aerial Imagery (C9) Other (Explain in Remarks) __ Iron Deposits (B5) Stunted or Stressed Plants (D1) ___ Inundation Visible on Aerial Imagery (B7) Geomorphic Position (D2) .__ Water-Stained Leaves (B9) Shallow Aquitard (D3) ___ Aquatic Fauna (B13) Microtopographic Relief (D4) Field Observations: X FAC-Neutral Test (D5) Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Wetland Hydrology Present? Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Tree Stratum (Plot size: 30)	Absolute	Dominant	Indicator	Dominance Test wo	ipling Point:	
-	70 COVEL	Species?	Status	Number of Daniel	ksneet:	
4		Springer Committee Committee		Number of Dominant	Species 5	
3.				That Are OBL, FACW	, or FAC:	(A
4.	-			Total Number of Dom	inant /	
5			-	Species Across All Str	rata:	;
56,	***************************************	Particular de la constitución de	***************************************	i		(8
0,	Electric page 1			Percent of Dominant S	Species $\bigcirc 2$	
				That Are OBL, FACW,	or FAC: 85	(A
			******************	Prevalence Index wo		· (/ 1
				Total of O	rksheet:	
50% of total cover:	20% of t	otal agree	r		Multiply by	':
Sapling/Shrub Stratum (Plot size: 30% of total cover:		oral covet:"		onr sheries	v 1	
X // / / / / / / / / / / / / / / / / /	112		/	The washedies	v 2	
- FESTA	-10		OBK	FAC species	W 2	
				FACU species	x	
				FACU species UPL species	X 4 =	
				Column Texas	X 5 =	
		-		Column Totals:	(A)	(B
				Hydrophytic Vozatati	= B/A =	
	-			Hydrophytic Vegetatio	n Indicators:	
	-			- Napid Test for H	ydrophytic Vegetation	
	_ WY -			2 - Dominance Test	is >50%	
50% of total cover:	$\frac{1}{2}$ = T	otal Cover	J	3 - Prevalence Inde	X is ≤3.0¹	
	20% of tot	al cover:	8	4 - Morphological Ad	daptations1 (Provide su	Innortin
Copenius Strypsus	~~	.0	1	adra in Kemarks	Or on a senerate at	
Moatiens Co.			EACH-	Problematic Hydropi	1Vtic Vegetation1 (F.	
Bochmeria Cylindrica	<u> </u>		ACW.	• [The redectation (EXDI	ain)
Corbesina occidentalia	_20 -		na.d'	Indicators of hydric soil a be present, unless disturi	and waster to	
are vica	_15 = =		Mari b	pe present, unless disturt	and welland hydrology	must
Muras lagin Kininga	15	/	44/	Definitions of Four Vege	ecei	
Heroskym Kinstiea	20 :	/ · ·	BL		station Strata:	
g samue		- L	ACIT	ree – Woody plants, exc nore in diameter at breas	luding vines, 3 in (7 s	cm) or
			h	nore in diameter at breas eight.	t height (DBH), regard	less of
			- 1			
			S	apling/Shrub - Woody p an 3 in. DBH and greate	olants evoluding	
			th	an 3 in. DBH and greate) tall.	r than or equal to 3 29	, less
			''') tall.	1,000,000	11 (1
	95 - T-	al Ca	He	erb - All herbaceous (no size, and woody plants i	D-Moody) !-	
dy Vine Stratum (Plot size: 50% of total cover: 47.	20% of total	al Cover/C	of	size, and woody plants I	woody) plants, regai	dless
dy virie Stratum (Plot size:	Oi totai	cover: /	w	oody vina	and one of tall.	
			hei	o <mark>ody vine –</mark> All woody v ight.	ines greater than 3,28	ft in
THE SURFER STATES						
NUIC					-	
	-		-			
			- Hyo	drophytic		
F 00:	- Tai-	100	Veg	getation	\/	
rks: (Include photo-	= 10ta 20% of total c	Cover	Pre	sent? Yes	No_	
rks: (Include photo numbers here or on a separate sh	neet)	OVEI:			A. Commence	1
_{[-} -, 4, 6, 5]						
						1

Sampling Point:

Profile Description: (De	scribe to the den	h needed to do	mane els : '			Sampling Point:
Profile Description: (De	Matrix		nent the indicator	or confirm	n the absence of in	dicators.)
(inches) Color (mo	oist) %	Color (moist)	x realules			
0-4 7.54R	2/2	9 0101 (1110131)	<u>% Type</u> 1	Loc ²	Texture	Remarks
4-16+7540				-	Loan_	
1 10 1.3 /K	4/2	184R416	75 (m		
		.,			Loan _	
			***************************************	-		
The state of the s						
				•		
			***************************************	* *************************************		
-						
	-		***************************************			
Type: C=Concentration (D D . I .:					
Type: C=Concentration, [lydric Soil Indicators:	J=Depletion, RM=	Reduced Matrix, MS	=Masked Sand Gr	ains.	² Location; PL=Por	O Liping NA Adami
Histosol (A1)					Indicators f	or Problematic Hydric Soils ³ :
Histic Epipedon (A2)		Dark Surface	(S7)		2 11	uck (A10) (MLRA 147)
Black Histic (A3)		Polyvalue Bel	ow Surface (S8) (N	ILRA 147,	148) Coast P	rairie Redox (A16)
_ Hydrogen Sulfide (A4)		- TIMI Dalk Sul	Tace (S9) (MLRA 1	47, 148)		A 147, 148)
Stratified Layers (A5)		Loamy Gleyer	d Matrix (F2)		Piedmo	nt Floodplain Soils (F19)
2 cm Muck (A10) (LRR	₹ N)	Depleted Mati	TIX (F3)		(MLR	A 136, 147)
_ Depleted Below Dark S	Surface (A11)	Depleted Dark	urrace (F6)		Very Sh	allow Dark Surface (TF12)
 Thick Dark Surface (A) 	12)	Redox Depres	Seione (E0)		Other (E	xplain in Remarks)
_ Sandy Mucky Mineral ((S1) (LRR N,	Iron-Mangane	se Masses (F12) (I	DD N		
MLRA 147, 148)		MLRA 136)	KK N,		
Sandy Gleyed Matrix (SSandy Redox (S5)	54)	Umbric Surfac	e (F13) (MLRA 13	3 122)	311:	
Stripped Matrix (S6)		Pleamont Floo	dplain Soils (F19)	MI DA 1AC		of hydrophytic vegetation and
estrictive Layer (if obser	1	Red Parent Ma	aterial (F21) (MLR	127. 147)		ydrology must be present,
Type:	'vea):			1 1 1 1 1 1 1 1 1 1	unless us	sturbed or problematic.
Dopth (inches)		·····				- 0
Depth (inches):					Hydric Soil Presei	X
emarks:					Hydric Soli Presei	1t? Yes / No
	II	- /	()	Ω		
	Hudr	ic soil	prese	of the		
	٦ - ا		12000	N		

WDOJ001S_w



Wetland data point WDOJ001S_w facing east



Wetland data point *WDOJ001S_w* facing south

n C
n
X 14
Point:
Slope (%):
Slope (%):
12005 10002
3000
\ /
X No_
No_features,
features,

two required
Surface (B8)
agery (C9)
agery (C9))
,
^ /
No.
Ì

VEGETATION (Four Strata) - Use scientific names of plants. MODERALW Tree Stratum (Plot size: Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 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 % Cover of: = Total Cover 50% of total cover: _ 20% of total cover: Sapling/Shrub Stratum (Plot size: OBL species _____ X1= FACW species _____ x 2 = _ FAC species ____ × 3 ≈ FACU species X 4 = UPL species ____ X 5 = ____ Column Totals: ___ ____ (A) Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% __ 3 · Prevalence Index is ≤3.01 = Total Cover 50% of total cover: ___ 4 - Morphological Adaptations¹ (Provide supporting 20% of total cover data in Remarks or on a separate sheet) _ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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

= Total Cover

_ = Total Cover

_ 20% of total cover:

height.

Hydrophytic Vegetation

Present?

20% of total cover:

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

50% of total cover:

50% of total cover: ___

Woody Vine Stratum (Plot size:

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in

WD03001	
Sampling Point:	\cup

Profile Desc	ription: (Describe t	0 the denth no	and of hobos				Sampling	oint:	'
Depth	ription: (Describe t Matrix	a mo dopin ne	seded to docur	nent the indicate	or or confirm	the absence of i	indicators.)		
(inches)	Color (moist)		Redo olor (moist)	x Features %Type		Texture	Remark	S	
				Manual Company					
Managori, (a) derivate propositivo par	- N 7D-	50t	L DI	RRA					
	511	ED	101	ILL					
pe: C=Coi	ncentration, D=Deple	ation PM Pod							
		MOIT NIVERBU	iced Matrix, MS	S=Masked Sand (Grains.	² Location: PL=P	ore Lining, M=Matri	Х.	
Black Hist	ipedon (A2) tic (A3)		Dark Surface Polyvalue Bel Thin Dark Sur	(S7) low Surface (S8) rface (S9) (MLRA	(MIRA 147 1	2 cm Coasi	s for Problematic I Muck (A10) (MLRA : Prairie Redox (A16	Hydric Solls 147)	3:
Stratified	n Sulfide (A4) Layers (A5) ck (A10) (LRR N)		Loamy Gleye Depleted Mati	d Matrix (F2) rix (F3)	(147, 148)	Piedn	∟RA 147, 148) nont Floodplain Soil ∟RA 136, 147)	s (F19)	
Depleted Thick Dar.	Below Dark Surface k Surface (A12)	(A11)	Redox Dark S Depleted Dark	K Surface (F7)		Very :	Shallow Dark Surfac (Explain in Remark	ce (TF12)	
Sandy Mu MLRA	ıcky Mineral (S1) (LR 147, 148)	RR N,	Redox Depres Iron-Mangane MLRA 136	se Masses (F12)	(LRR N,		,	,	
Sandy Gle Sandy Re- Stripped N	eyed Matrix (S4) dox (S5)	- Control of the Cont	Umbric Surfact Piedmont Floor	e (F13) <mark>(MLRA 1</mark> Odplain Soils (F19) (MI RA 148)	³ Indicato	rs of hydrophytic ve	egetation and	ť
strictive La	ayer (if observed):		Red Parent M	aterial (F21) (ML	RA 127, 147)		d hydrology must be disturbed or probler	present, matic.	
Гуре:									
Pepth (inch	ies);							V	
narks:						Hydric Soil Pres	sent? Yes	_ No <u> </u>	
marks:	Could ne	of au	ger a	ny soi		Hydric Soil Pres			
						\mathcal{I}	1 12/2		
									

WDOJOO1_u



Upland data point WDOJ001_u facing east



Upland data point WDOJ001_u facing south

WDOJ001 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM -	- Eastern Mountains and Piedmont Region
,	county: Dollar Oce Sampling Date: 4(-17-15
	State: WV Sampling Point: WDOG 00
Investigator(s): J. Duncon D. Brame Section	
Landform (hillslope, terrace, etc.): Landform (hillslope, terrace, etc.): Landform (hillslope, terrace, etc.):	
Subregion (LRR or MLRA): Lat: 39°17' 18.	13" Long: 80° 38' 24-56" Datum: 1,765 8
Soil Map Unit Name: Worthents	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Recent havy rains All three scameters pres	
	2 ut
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 High Water Table (A2) Hydrogen Sulfide Oc	
	res on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduce	ed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction	1
Drift Deposits (B3) Thin Muck Surface (Algal Mat or Crust (B4) Other (Explain in Re	
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)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Water Table Present? Yes No Depth (inches): Yes No Depth (inches):	The Cal
Saturation Present? Yes X No Depth (inches):	CULTACE Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, principle of the control of	revious inspections), if available:
Remarks:	
Hydrology present	_
	•

Sampling Point: _____

(01)	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover Species? Status	Number of Dominant Species
1. Splix nicra	10 V/ OBL	That Are OBL, FACW, or FAC: (A)
2. Platama occidentalis	5 FACW	That is obligation of the state
2. Fratamis occidentales	FACE	Total Number of Dominant
3		Species Across All Strata: (B)
4		- A- A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:
6		Prevalence Index worksheet:
7		
	Total Cover	Total % Cover of: Multiply by:
50% of total cover: 7.	5 20% of total cover: 3	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30		FACW species x 2 =
Sability Stratum (Plot size: 3-0	10 / OBL	FAC species x 3 =
1. Solex niege 2. Rosa miellithra	- 10 - J - 00 1	· ·
2. ROSA mueltitura	_5_ JEACY	FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6,		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		Z 2 - Dominance Test is >50%
9		
	15 = Total Cover	3 - Prevalence Index is ≤3.01
50% of total cover: 7	.5 20% of total cover: 3	4 - Morphological Adaptations (Provide supporting
_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 17)	GO FACI	
1. Opoclar sensibilis		
2. Micro skegium viminea	_ 30 ~ FAC	The Hard and the state and another additional brightness process
3	_	¹ 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		
		Sapling/Shrub - Woody plants, excluding vines, less
9		. than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		· 11) taii.
11		Herb - All herbaceous (non-woody) plants, regardless
	9D = Total Cover , 6	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	Total Cover 18 20% of total cover: 18	All all all and a second and the sec
Woody Vine Stratum (Plot size:)		, y
1 to out of the out of		height.
·		-
2.		-
3		_
4		15 description
5		Hydrophytic Varietation
V ₁	T. 10	Vegetation Present? Yes No
F00/ 51 1-1	= Total Cover	
50% of total cover:	20% of total cover:	-
Remarks: (Include photo numbers here or on a separa	te sheet.)	

SOIL

WDD6009e Sampling Point: _______

Profile Desc	cription: (Describe to	the depth	needed	to docun	nent the in	dicator	or confirm	the absence of	f indicato	rs.)
Depth	Depth Matrix Redox Features									
(inches)	Color (moist)	%	Color (%_	Type ¹	Loc ²	Texture		Remarks
0-9	104R4/2	4	OYR	4/16	710		M	LOAM	·	
9-18+	10 YR 5/4	l	OYR	5/8	710	1-	m	SARDY	Coan	
7		E					. 	7		
										
										·
	·									
1Type: C-C	Concentration, D=Depl	otion DAA I	200,1000	Matrix M		Cand C		21 contions DI	Doro Lini	ina M-Matriy
Hydric Soil	Indicators:	elion, Rivi=r	Reduced	Maurx, M	S=IVIASKeu	Sanu G	iallis.	Indica	tors for P	ing, M=Matrix. roblematic Hydric Soils³:
Histoso			D	ark Surface	n (C7)					A10) (MLRA 147)
	Epipedon (A2)			ark Surface		na (SB) (MLRA 147			Redox (A16)
	listic (A3)				urface (S9)			, 140) 0	(MLRA 14	
	en Sulfide (A4)				ed Matrix (,	P	•	oodplain Soils (F19)
	ed Layers (A5)			epleted Ma		·			(MLRA 1	
	luck (A10) (LRR N)				Surface (F					w Dark Surface (TF12)
	ed Below Dark Surface	e (A11)			ark Surface			<u> </u>	ther (Expla	ain in Remarks)
	Dark Surface (A12)				essions (F					
	Mucky Mineral (S1) (L	.RR N,	irc		nese Mass	es (F12)	(LRR N,			
1	RA 147, 148) Gleyed Matrix (S4)		1.6	MLRA 13		(NAI DA 1	136 133)	3Ind	icators of k	nydrophytic vegetation and
	Redox (S5)				ace (F13)		(36, 122) (MLRA 1			ology must be present,
	ed Matrix (S6)						RA 127, 14			bed or problematic.
	Layer (if observed):									
Type: _	-							ŀ		Λ 🖍
1 -	nches):							Hydric Soil	Present?	Yes No
Remarks:								Tiyane con		100 4 10
Remarks:	. (~				$\hat{}$			
}	12.5	Drie		() -	_	4	+-			
	Tuga		20		تعدد	en	\mathcal{Q}			
	•				`					

wdog009e_w



Wetland data point wdog009e_w facing east



Wetland data point wdog009e_w facing south

WETLAND DETERMINATION DATA FORM -	
Project/Site: DTI Supply Header City/Co	ounty: Down idae Sampling Date: 4-16-15 State: W Sampling Point: 406009
Applicant/Owner: Dominion	State: W Sampling Point: 206009
Investigator(s): J. Duncan, D. Brame Sectio	n, Township, Range:
Landform (hillslope, terrace, etc.): Local relie	
Subregion (LRR or MLRA): P Lat: 390 17 12	R.07" Long: 80°38'25.09" Datum: 60658"
\cdot	NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	es No X (If no. explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	· · ·
Solvinia (1) 1 (1) 1 (1) 1 (1) 1 (1) 2 - Attach site map showing said	iping point locations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Recent homas racin	
Recent homes rains Not all three parameters	; present
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 (
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Od Oxidized Rhizospher	
Saturation (A3) Oxidized Rhizospher Water Marks (B1) Presence of Reduce	•
	on 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 Re	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Shallow 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):	. X 1
Saturation Present? Yes No Depth (inches); Occident (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	French.
No hydrology	120-4

Sampling Point: _______

20	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species Status	Number of Dominant Species
1. Hor nequindo	30 V FAC	That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
/	36	Total % Cover of: Multiply by:
W001 51 1 1	30 = Total Cover	OBL species x1 =
7.	5 20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:	10 1/ 500	3.0
1. Kosa multiflora	60 / FACU	1 Mo species
2. Eloragnes umbellata	30 U NI	
3		UPL species $\frac{1}{2}$ $$
4		
5		Prevalence Index = B/A = $\frac{3.875}{}$
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		
9		2 - Dominance Test is >50%
	20 = Total Cover	3 - Prevalence Index is ≤3.01
50% of total cover:	5 20% of total cover: 18	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 10)		data in Remarks or on a separate sheet)
1. Datylis alomerates	60 V FACE	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Agrimonia Insuisa		
		I 'Indicators of hydric soil and wetland hydrology must
3		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		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
	TO = Total Cover	of size, and woody plants less than 3.28 ft tall.
	5 20% of total cover: 14	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)		height.
1		-
2. 197108		_ (
3		_
4		Abot polosis
5.		- Hydrophytic - Vegetation
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	_
Remarks: (Include photo numbers here or on a separa		
Tamana (maiada prioto nambara nara di di) di depare	no onodij	
	,	

C	a	1
Э	u	L

Sampling Point: ______ U

Profile Descr	iption: (Describe to	the depth ne	eded to docume	ent the indica	tor or confirm	the absence of	of indicators.)
Depth	Matrix			Features			
(inches)	Color (moist)	%C	olor (moist)	<u>% Ty</u>	pe¹ Loc²	Texture	Remarks
0-12	104R 5/4					(OAM	
12-180	104R5/6				SIN	LOXM.	
							
							
¹Type: C=Co	oncentration, D=Depl	etion, RM=Red	uced Matrix MS	=Masked Sar	nd Grains	2 ocation: P	L=Pore Lining, M=Matrix.
Hydric Soil		0.001// 1.11/ 1.00	doda maana, mo	-masica sai	id Ordins.		ators for Problematic Hydric Soils ³ :
Histosol			_ Dark Surface	(S7)			cm Muck (A10) (MLRA 147)
_	oipedon (A2)	-			88) (MLRA 147,		Coast Prairie Redox (A16)
Black Hi		-	_ Thin Dark Sur				(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyer			<u> </u>	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat			,	(MLRA 136, 147)
	ick (A10) (LRR N) d Bel <mark>o</mark> w Dark Surface		_ Redox Dark S		.		/ery Shallow Dark Surface (TF12)
	ark Surface (A12)		_ Depleted Darl _ Redox Depres		,	_ `	Other (Explain in Remarks)
	/lucky Mineral (S1) (L		Iron-Mangane		-12) (I RR N.		
	A 147, 148)		MLRA 136		, z, (z . (11)		
	Gleyed Matrix (S4)	_	Umbric Surfa		RA 136, 122)	3 Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo	odplain Soils	(F19) (MLRA 14		etland hydrology must be present,
	d Matrix (S6)		_ Red Parent N	1aterial (F21)	(MLRA 127, 14	7) ur	nless disturbed or problematic.
1	Layer (if observed):		_				
Type:							\checkmark
Depth (in	ches):					Hydric Soi	I Present? Yes No X
Remarks:				····			
						- N	0
			49	1		(- I)	present
			\mathcal{N}	o N	ysorz	200	plean
			, -	_ (1		1
1							

wdog009_u



Upland data point wdog009_u facing east



Upland data point wdog009_u facing south

wdog009 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM -	_
Project/Site: DT 1 Supply Hender City/C	ounty: Dodoridge Sampling Date: 4-21-15
Applicant/Owner: Dominion	State: WV Sampling Point: POCOTO
Investigator(s): J. Duncan, D. Brane Section	on, Township, Range:
Landform (hillislope, terrace, etc.): terrace / dopressionocal reli	ef (concave, convex, none): (On (Aug. Slope (%):
Subregion (LRR or MLRA): Lat: 39° 18'	Long: 80°38' 10000' Datum: CNGS 84
Soil Map Unit Name: Gilpin 35.	Long: 80'38' Datum: WGS 8'C
Are climatic / hydrologic conditions on the site typical for this time of year? Y	, · · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: All these parameters preso	
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 — True Aquatic Plants	· · · · · · · · · · · · · · · · · · ·
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Oc Oxidized Rhizosphei	· · · · · · · · · · · · · · · · · · ·
Water Marks (B1) — Oxidized Kilizosphe — Presence of Reduce	-
	on in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (
Algal Mat or Crust (B4) Other (Explain in Re	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Aquatic Fauna (B13)	── Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)
Field Observations:	Z / No-Medital Test (Do)
Surface Water Present? Yes No Denth (inches):	
Water Table Present? Yes No Depth (inches):52	where
Saturation Present? Yes No Depth (inches): St	wance Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pi	evious inspections), if available:
Remarks:	
11 11	•
Hydrology present	
	(1) 3 1
Obvious Depression	on within terrace.

Sampling Point:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30) 1. Acer rubrum	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7	- L/	Total % Cover of: Multiply by:
50% of total agreement	Total Cover 20% of total cover:	OBL species x1=
Sapling/Shrub Stratum (Plot size: 30	20% of total cover	FACW species x 2 =
1. Rose multistora	15 V FACU	}
•		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals:(A)(B)
4		
5		Prevalence Index = B/A =
6,		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9	15	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 7.5	Total Cover 3	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 10)	20% Of total cover.	data in Remarks or on a separate sheet)
1. Miceoslegium Viminea	25 / FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carox comosa	ZO V OBL	
3. Runex CRISPUS.		Indicators of hydric soil and wetland hydrology must
4. Onoclen sersibilis		be present, unless disturbed or problematic.
		Definitions of Four Vegetation Strata:
5		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6		more in diameter at breast height (DBH), regardless of
7		height.
8		Sapling/Shrub - Woody plants, excluding vines, less
9		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		. m) tall.
11	75 = Total Cover	Herb – All herbaceous (non-woody) plants, regardless
700/ -54-4-1 -01-07	7.5 20% of total cover: 1.5	of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30% of total cover: 3	20% or total cover:t	Woody vine – All woody vines greater than 3.28 ft in height.
1		-
2		-
3		-
4		Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes / No
50% of total cover:	20% of total cover:	-
Remarks: (Include photo numbers here or on a separa	te sheet.)	
T. Control of the Con		

Profile Desc	ription: (Describe to the	depth needed to docum	ent the ir	dicator o	or confirm	the absence of ind	cators.)
Depth (inches)	Matrix Color (moist) %	Redo: Color (moist)	x Features %	Type¹	Loc²	Texture	Remarks
0-6	10YR 5/3	104R 5/6	720		m		Kemans
6-10	104R 4/4	104R5/6		$\frac{}{c}$	m	LOW	
					VVC		
10-16+	25 y 5/6_					Loam	
¹Type: C=C	oncentration, D=Depletion,	RM=Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=Por	e Lining, M=Matrix.
Hydric Soil						Indicators	for Problematic Hydric Soils ³ :
Histosol		Dark Surface					uck (A10) (MLRA 147)
	pipedon (A2) listic (A3)	Polyvalue Be Thin Dark S	elow Surfa	ce (S8) (N	/ILRA 147		Prairie Redox (A16)
	en Sulfide (A4)	Loamy Gley			147, 148)		RA 147, 148) ont Floodplain Soils (F19)
	d Layers (A5)	Depleted Ma		/			RA 136, 147)
	uck (A10) (LRR N)	Redox Dark					nallow Dark Surface (TF12)
	ed Below Dark Surface (A11 lark Surface (A12)	Depleted Da				Other (Explain in Remarks)
	Mucky Mineral (S1) (LRR N				(LRR N.		
	A 147, 148)	MLRA 1:		00 (1 12)	(=-::-,		
	Gleyed Matrix (S4)	Umbric Surf					s of hydrophytic vegetation and
Sandy		Piedmont F					hydrology must be present,
	d Matrix (S6) Layer (if observed):	Red Parent	iviateriai (i	21) (IVILE	RA 127, 14	uniess (listurbed or problematic.
1							. 1
{ ·	nches);					Hydric Soil Pres	ent? Yes X No
Remarks:							
	,	_	٨			^	
	1/.	your se	$ \cdot $				
	itt	1000 DE Se	rl 1	Dre	son	\mathcal{P}	
)	Į.	'			

wdog010f_w



Wetland data point wdog010f_w facing east



Wetland data point wdog010f_w facing south

WETLAND DETERMINATION DATA FORM – E	astern Mountains and Piedmont Region 4-21-15
Project/Site: DTI Suph Hender City/Coun	ty: Doddridge Sampling Date:
Applicant/Owner: Dominion	State: WV Sampling Point:
Investigator(s): J. Duncian, D. Brame Section, T	Fownship, Range:
Landform (hillslope, terrace, etc.): Hillslope Local relief (c	concave, convex, none):Slope (%):
Subregion (LRR or MLRA): Lat: 39°/8' CORRE	
Soil Map Unit Name: Gilpin 35.9:	NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed	~~
Are Vegetation, Soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS – Attach site map showing sample	·
Solimination of the state of th	mig point tooditorio, d'arresono, impertante contracto, con
Hydric Soil Present? Yes No w	the Sampled Area ithin a Wetland? Yes No
Wetland Hydrology Present? Yes NoX Remarks:	
Not all three parameters	- Constant
Not all Mile parameter ?	2. Diezera
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) True Aquatic Plants (B1-	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (
Saturation (A3) Oxidized Rhizospheres	on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iro	
Sediment Deposits (B2) Prift Deposits (B3) Recent Iron Reduction in Thin Muck Surface (C7)	
Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remai	
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):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous provides and provides are considered by the control of the cont	
besonder Nederland Salar (officially gradge, monitoring well, derigh photos, previous	and mapoutonal, it available.
Remarks:	\cap
No hydrology pres	ier
	·
·	

WD06010	
Sampling Point:	U

20	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1. Quercus montana	30 V FACU	That Are OBL, FACW, or FAC: (A)
2. Quercus alba.	20 V PACU	
3. Duercus velutina	20 V NI	Total Number of Dominant Species Across All Strata: (B)
		Species Across All Strata: (B)
4. Har rubrum	10 FAC	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
	85 = Total Cover	Total % Cover of: Multiply by:
500/ -51-1-1 47	= Total Cover	OBL species x 1 =
	.5 20% of total cover:	
Sapling/Shrub Stratum (Plet size: 30)		FACW species X2 = SO X3 = SO
1. Rosa multiflora 2. Elacagnier umbellata	20 V FACE	
2. Elaconier umbellata	10 VINTER	FACU species x 4 =
	- 	UPL species x 5 =
		Column Totals: 120 (A) 470 (B)
4		
5		Prevalence Index = B/A = 3.92
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9		1
1	30 = Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover: 15	Total Cover 20% of total cover:	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 10)	2070 07 total 00701	data in Remarks or on a separate sheet)
1. Polystichem acrostoriles	15 / 500	Problematic Hydrophytic Vegetation ¹ (Explain)
1 3	13 V FAU	9
2		¹ Indicators of hydric soil and wetland hydrology must
3		be present, unless disturbed or problematic.
4		Definitions of Four Vegetation Strata:
5		Deminions of Four Vegetation Strate.
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		that All hash account (non woody) plants regardless
	15 = Total Cover	 Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover. 7	5 20% of total cover: 3	of size, and woody plants less than 6.20 it talk
70	5 20% of total cover:	Woody vine - All woody vines greater than 3.28 ft in
		height.
1		-
2.		
3. <u>1</u> 10 10 10 1		
4.		
5		Hydrophytic
"		Vegetation Present? Yes No
700/ 6/1/	= Total Cover	11030111
50% of total cover:		-
Remarks: (Include photo numbers here or on a separat	e sheet.)	

Sampling Point: ____

	•	th needed to document the indicator or confirm	tne abs	sence of Indicators.)
Depth (inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Textu	ure Remarks
0-2	104R 4/4		10	Am
2-10	2.54 614		ı	An
10-16+	2.54 5/6		1	
<u> </u>	201 9/0		VOR	an
	-			
				
		=Reduced Matrix, MS=Masked Sand Grains.	² Locat	ion: PL=Pore Lining, M=Matrix.
=	I Indicators:			Indicators for Problematic Hydric Soils ³ :
Histoso		Dark Surface (S7)	140	2 cm Muck (A10) (MLRA 147)
Histic I	Epipedon (A2) Histic (A3)	Polyvalue Below Surface (S8) (MLRA 147,Thin Dark Surface (S9) (MLRA 147, 148)	, 148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	gen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	ed Layers (A5)	Depleted Matrix (F3)		(MLRA 136, 147)
	Muck (A10) (LRR N)	Redox Dark Surface (F6)		Very Shallow Dark Surface (TF12)
	ted Below Dark Surface (A11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	Dark Surface (A12) Mucky Mineral (S1) (LRR N,	Redox Depressions (F8)		
	RA 147, 148)	iron-Manganese Masses (F12) (LRR N, MLRA 136)		
(Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)		³ Indicators of hydrophytic vegetation and
	Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	48)	wetland hydrology must be present,
	ed Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	17)	unless disturbed or problematic.
Restrictive	e Layer (if observed):			
				\checkmark
	inches):		Hyd	ric Soil Present? Yes No
Remarks:				•
	119	hydriz soil pre		A
		hidden Soul Dre	SON	A.
	700	ruper le 2001 p		

wdog010_u



Upland data point wdog010_u facing east



Upland data point wdog010_u facing south

wdog010 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Easter					
Project/Site: DTD Syndy Hender City/County: 1	Sampling Date: 4-21-1.				
Applicant/Owner: Dominion	State: WV Sampling Point 1060				
Investigator(s): J. Duncon D. Brame Section, Townsh	nip, Range:				
Landform (hillslope, terrace, etc.): hillslope Local relief (concav	· · · · · · · · · · · · · · · · · · ·				
Subregion (LRR or MLRA): P Lat: 39°19′0.6,66′	Long: 80°38′ 15.03 Datum: W65				
Soil Map Unit Name: Case Branch Gilpin					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes					
Are Vegetation, Soil, or Hydrology significantly disturbed?					
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling p	•				
300000AKT OF FINDINGS - Attach site map showing sampling p	onit locations, transects, important leatures, etc.				
Hydric Soil Present? Wetland Hydrology Present? Yes No within a	ampled Area Wetland? Yes No				
All three para meters present					
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 Livi					
Water Marks (B1) Presence of Reduced Iron (C4	Dry-Season Water Table (C2)				
Sediment Deposits (B2) Recent Iron Reduction in Tilled					
Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5)	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	Microtopographic Relief (D4)				
Aquatic Fauna (B13)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No Depth (inches):					
Water Table Present? Yes No Depth (inches):					
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	pections), if available:				
Remarks:					
Small Side scepage stope					
	·				

	110209W	0.,
Sampling	Point:	~~

7.0	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>≤ O</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3				Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6,				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:	20% of	total cover	·	1
Sapling/Shrub Stratum (Plot size: 30)	1		~	FACW species x 2 =
1. Rosa multiflora	$\frac{10}{100}$		FACU	
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				7 - Rapid rest for Hydrophytic Vegetation
9,				Z - Dominance Test is >50%
	10	= Total Co	ver	3 - Prevalence Index is ≤3.0¹
50% of total cover:	20% 0	f total cove	r: 2	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:(D)				data in Remarks or on a separate sheet)
1. Onorlan sensibilis	25		FACE	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Atherium Klix-Rinena	*5		FACI	
3. CIATEX COMOSA			OBL	I Indicators of hydric soil and wetland hydrology must
1 Contract	30	- - Y -	FACE	be present, unless disturbed or problematic.
4. Daty les glomerate			_	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				
8				
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
	75	_ = Total Co	over, ~	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	5 20%	of total cove	er:(<u>)</u>	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2.				
3. NOVE				
4.				
5.				Hydrophytic Vegetation
l · · · · · · · · · · · · · · · · · · ·		= Total C	OVOT	Vegetation Present? Yes No
50% of total cover:	20%			
Remarks: (Include photo numbers here or on a separate				-
Astronomy (morado prioto maniporo fiere di dit a separate	J. 1661./			•

Profile Desc	ription: (Describe to	the depth	needed	to docun	nent the in	dicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix			Redo	x Features						
(inches)	Color (moist)	%	Color (ı	noist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-10	104R 4/2		104R	416	720		m	LOW	<u>~</u>		
10-18+	104R 4/3		LOYR	4/6	720		m	LOTA	<u>~</u>		
											
										~	
											
¹Type: C=C	oncentration, D=Deple	etion, RM=	Reduced	Matrix, M	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lir	ning, M=Matrix.	· 0 !! 3
Hydric Soil			_							Problematic Hydr	
Histoso	i (A1) pipedon (A2)			rk Surface		(CO) (F	ALD A 447			(A10) (MLRA 147))
\	istic (A3)				elow Surfac urface (S9)			, 140)	(MLRA 1	ie Redox (A16)	
	en Sulfide (A4)				ed Matrix (147, 140,		•	loodplain Soils (F	19)
Stratifie	d Layers (A5)		₹De	pleted Ma	atrix (F3)				(MLRA 1	136, 147)	
	uck (A10) (LRR N)				Surface (F					ow Dark Surface (1	F12)
	d Below Dark Surface ark Surface (A12)	(A11)			ark Surface				Other (Exp	lain in Remarks)	
	Mucky Mineral (S1) (L	DD N			essions (Fances) nese Mass		/I DD N				
	A 147, 148)	1414 147		MLRA 1		63 (1 12)	(LIXIX IV,				
	Gleyed Matrix (S4)		Ur		ace (F13) (MLRA 1	36, 122)	³ lr	ndicators of	hydrophytic veget	ation and
	Redox (S5)				loodplain S					rology must be pre	
	d Matrix (S6)		Re	ed Parent	Material (F	21) (MLI	RA 127, 14	17) i	ınless distu	rbed or problemati	c.
l	Layer (if observed):									•	
Type:										\checkmark	
	nches):							Hydric So	il Present	? Yes 🔼	No
Remarks:					\cap			· · · · · ·			
	1 -	1		_	()		4	 			
		LyDo	> 55	Son	VB	res	ent)			
	·										
		•									

wdog011e_w



Wetland data point wdog011e_w facing east



Wetland data point wdog011e_w facing south

WEILAND DETERMINATION DATA FORM -	· · · · · · · · · · · · · · · · · · ·
Project/Site: DT 1 Supply Hender City/Co	ounty: Do Chridge Sampling Date: 4-1/1-1-
Applicant/Owner: Dominion	State: WV Sampling Point: DOGOV
Investigator(s): J. Duncian D. Brame Section	n, Township, Range:
Landform (hillslope, terrace, etc.): Hullslope Local relie	ef (concave, convex, none): war vex Slope (%):15-3
Subregion (LRR or MLRA): P Lat: 39°19'06	.53" Long: 80°38'14.97" Datum: W65 8
	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS - Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No N	Is the Sampled Area within a Wetland? Yes No
Notall three parameters	resert
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 (1
High Water Table (A2) Hydrogen Sulfide Od Solvention (A3)	
Saturation (A3)Oxidized Rhizospher Water Marks (B1)Presence of Reduced	- · · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Recent Iron Reduction	
Drift Deposits (B3) Thin Muck Surface (_ · · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Other (Explain in Rel	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro-	evious inspections), if available:
Remarks:	
No hydrologie F	Dieser .
	•

Sampling Point: 1	
Sampling Point:	\smile

Tree Stratum (Plot size: 30)	Absolute	Dominant I		Dominance Test worksheet:
	% Cover	Species?	- 1	Number of Dominant Species
1. Canya glabra	42	· — —		That Are OBL, FACW, or FAC: (A)
2 Quercus rubra	<u> </u>		FACY	Total Number of Dominant
3. Quercus a/ba	20		PACY	Species Across All Strata: (B)
4,				Percent of Dominant Species
5,	-			That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
	65	= Total Cove	r	Total % Cover of: Multiply by:
50% of total cover 32.				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)		- /		FACW species x 2 =
1 Classanus, umbellata	45	✓.	NI	FAC species x 3 =
2. ROSA multiflora	25		FACU	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9	70	Total Cou	~~~	3 - Prevalence Index is ≤3.01
50% of total cover: <u>35</u>	20%	_ = Total Cover	e1 (4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 10)		or total oover,		data in Remarks or on a separate sheet)
1. Dactulis alomerata	20		EACL	Problematic Hydrophytic Vegetation ¹ (Explain)
2 Sangula Canadenses	15	- 	VPL	
3. Pohistichum acrostordes	15	- /-	FACY	Indicators of hydric soil and wetland hydrology must
4 Stellara media	- [5	/-	FACE	De present, unless distarbed of problemation
71	10		FACL	Definitions of Four Vegetation Strata:
5. Cardamine angustuta				
6. Claytonia caroliniana			FACI	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
1.0	<u> 80</u>	_ = Total Cov	er.	of size, and woody plants less than 3.28 ft tall.
50% of total cover:	<u>U</u> 20%	of total cover	<u></u>	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1				
2.				
3. JOV				-
4		_		I lively combaction
5				Hydrophytic (/
		= Total Co	ver	Present? Yes No
50% of total cover:	20%	of total cover	'.	_
Remarks: (Include photo numbers here or on a separate	sheet.)			

V 1	

Sampling Point: _____

Profile Desc	ription: (Describe to	the depth n				or confirm	the absence	of indicators.)
Depth	Matrix			K Features		12		Danis and a
(inches)	Color (moist)	<u>%</u> (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	104R 4/9						JOAM	
8-16+	104R 416						LORN	
<u> </u>	1=1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							
								
								
								
	,							
¹Type: C=C	oncentration, D=Deple	etion RM-Re	duced Matrix M	S-Macka	Sand Gr	aine	² Location: E	PL=Pore Lining, M=Matrix.
Hydric Soil		Stion, Itivicité	duced Matrix, M.	3-14103461	Janu Gr	anısı		cators for Problematic Hydric Soils ³ :
Histoso			Dark Confer	(07)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Dark Surface Polyvalue Be		100 (80) W	71 DA 147		Coast Prairie Redox (A16)
	istic (A3)	•	Polyvalue Be Thin Dark St				. 140) \	(MLRA 147, 148)
	en Sulfide (A4)	•				147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	•	Loamy Gleye Depleted Ma		(1-2)			(MLRA 136, 147)
	uck (A10) (LRR N)	,	Depleted Ma Redox Dark		F6)		,	Very Shallow Dark Surface (TF12)
	ed Below Dark Surface	. (A11)						Other (Explain in Remarks)
	eark Surface (A12)		Depleted Da Redox Depr					Other (Explain in Remarks)
	Mucky Mineral (S1) (L		Iron-Mangar			/LDD N		
	A 147, 148)	RR IV,	iron-wangar MLRA 13		Ses (F 12)	(LRK N,		
	Gleyed Matrix (S4)				(NA) DA 4:	26 122)	310	idicators of hydrophytic vegetation and
Sandy			Umbric Surfa					
			Piedmont FI	•				vetland hydrology must be present,
	d Matrix (S6)		Red Parent	iviateriai (F21) (MLF	KA 127, 14	/) u	nless disturbed or problematic.
l	Layer (if observed):							
Type:			_					\1
Depth (in	nches):						Hydric So	oil Present? Yes No 🗶
Remarks:								
						\cap		<u> </u>
		1 7	Lydi		7	11 ~		- 12 T
		NO	Ludi	MS	SO	ヤド	SOLAS	21/2
		, –	, -56-,			V		
ļ								

wdog011_u



Upland data point wdog011_u facing east



Upland data point wdog011_u facing south

wdog011 soils



Wetland/upland soils

WETLAND DETERMINATION	DATA FORM – Eastern M	ountains and Piedmor	nt Region
roject/Site: Supply berackie	City/County:	Ouridae s	ampling Date: 7-29-15
pplicant/Owner: Domanion		State: (1)	Sampling Point DOHOC
nvestigator(s): DOWEST	Section, Township, F		· Camping Conta
andform (hillslope, terrace, etc.): 1+illslope		onvex, none): CON Ve	x Slope (%) 20 - 3
63 '			
	1 1 A		164 Datum: W65 8
oil Map Unit Name: Silpen Texto	ody Complex	NWI classificat	ion: NONE
are climatic / hydrologic conditions on the site typical for t	nis time of year? Yes X No	(If no, explain in Rer	narks.)
Are Vegetation, Soil, or Hydrology	_significantly disturbed? Ar	e "Nørmal Circumstances" pre	esent? Yes X No
Are Vegetation, Soil, or Hydrology	_ naturally problematic? (If	needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS - Attach site may	o showina samplina poin	t locations, transects,	important features, etc.
		100000000	,
Hydrophytic Vegetation Present? Yes	18 000 38000	ed Area	
Hydric Soil Present? Yes	No within a Wet	1	No X
Wetland Hydrology Present? Yes			
Not all three	parameters	Present	
· d all man			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil C	
	rue Aquatic Plants (B14)		etated Concave Surface (B8)
	lydrogen Sulfide Odor (C1)	Drainage Pati	
Saturation (A3)	xidized Rhizospheres on Living R	loots (O3) Moss Trim Lin	nes (B16)
Water Marks (B1) F	Presence of Reduced Iron (C4)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2) F	Recent Iron Reduction in Tilled Sol	ls (C6) Crayfish Burn	ows (C8)
Drift Deposits (B3) T	hin Muck Surface (C7)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ressed Plants (D1)
Iron Deposits (B5)		Geomorphic	
Inundation Visible on Aerial Imagery (B7)		Shallow Aqui	
Water-Stained Leaves (B9)			phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No			
Water Table Present? Yes No	Depth (inches):		\checkmark
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	ell aerial photos previous inspec	ions) if available:	
possins reserved para (en our gauge, memering v	on, donar priotos, proviodo mopos		
Remarks:	^ /	Ω	
1 1 1 1	malace. Das	120	•
100 mgs	vology pro	ACC Y	•
:			

Sampling Point:	XOHOC	6
t worksheet:	1	
nant Species ACW, or FAC:		_ (A)
Dominant All Strata:	5	(B)

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Hear barbatum	<u> </u>		NI	That Are OBL, FACW, or FAC: (A)
2. Liravdon Drun tulipiton	25		FACU	Total Number of Dominant
3. Juckens nicon	15		FACU	Species Across All Strata: (B)
			<u> سينت ماييا</u> م مايم	openies / to over an en anal
			-	Percent of Dominant Species 20
5				That Are OBL, FACW, or FAC: (A/B)
6			-	Prevalence Index worksheet:
7			-	
_	70	_ = Total Cov	rer	Total % Cover of: Multiply by:
50% of total cover:	25 20%	of total cover	11	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)				FACW species x 2 =
1. CArpines caroliniana	20		FAC	FAC species x 3 =
2. Rosa mullitora	7/1		FACU	• •
	- 1 / 2	- - - -	. FATCU	UPL species x 5 =
3. Claeagnus limbe llate	4 10		- 10T	Column Totals: (A) (B)
4				Coldini Totals.
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7			. 	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9,				3 · Prevalence Index is ≤3.0¹
	45	= Total Co	ver 🔿	
50% of total cover: 27	2.5 20%	of total cove	r: 9	4 - Morphological Adaptations ¹ (Provide supporting
Horb Stretum (Diet size. //			/	data in Remarks or on a separate sheet)
1. Polystichem arrostada	25 ZK		FIXE	Problematic Hydrophytic Vegetation ¹ (Explain)
1 SUSTICION CONCINCION		<u> </u>	- 717.	
2	~			1 Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				The standard qualitating times 2 in 17 6 am) or
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				
8				
1				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
9				m) tall.
10				
11				- Herb - All herbaceous (non-woody) plants, regardless
1-	لانكسر	= Total C	over C	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 1	209	6 of total cov	er:	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)				height.
1,		مسيسوانين يبرسو		
2				_
				_
***************************************				- Hydrophytic
3,				Vegetation Present? Yes No
200/ 711/		= Total C		r (Odditt)
50% of total cover:		% of total cov	rer:	
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
				1996

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) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0.6 104R 4/4		Sandy lown
6-14+ COYR 4/6		sandy loven
¹Type: C=Concentration, D=Depletion, RN Hydric Soil Indicators:	√Seeduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147 Thin Dark Surface (S9) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 127, 14	2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Remarks:	No Mydraz	soil present

wdoh006F_w



Wetland data point wdoh006F_w facing east



Wetland data point *wdoh006F_w* facing south

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Do Donder Sampling Date: 7-29-15 City/County: ___ Applicant/Owner: Investigator(s): Section, Township, Range:_ cal relief (concave, convex, none): Concrete Slope (%): Landform (hillslope, terrace, etc.): 20 06,937" Long: 80°38" 08.731" Subregion (LRR or MLRA): NWI classification: Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology ___ __ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **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) K High Water Table (A2) XDrainage Patterns (B10) ___ Hydrogen Sulfide Odor (C1) __ Moss Trim Lines (B16) 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) Saturation Visible on Aerial Imagery (C9) _ Thin Muck Surface (C7) ___ Algal Mat or Crust (B4) Stunted or Stressed Plants (D1) Other (Explain in Remarks) ___ 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) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology F

US Army Corps of Engineers

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

WDOHOO6	₽.
Point:	Ŵ

EGETATION (Four Strata) - Use scientific names of plants.			Sampling Point:	-W	
20	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?		Number of Dominant Species	1
1. transmispanymen	12		HACW	That Are OBL, FACW, or FAC: (A)	
2. Heer pulpostulu	20		NI	Total Number of Dominant	- {
3				Species Across All Strata: (B)	
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/I	R)
6				That Are Obe, I Aow, or I No.)
_			·	Prevalence Index worksheet:	
7	200	T		Total % Cover of: Multiply by:	}
50% of total cover: 17-5	ــککـــ	= Total Cov	^{/er} 7	OBL species x 1 =	
	20% 0	or total cover			
Sapling/Shrub Stratum (Plot size:	20	. /	~ "	FACW species x 2 =	
1. Carpinus coro (muana	<u>30</u>		FAC	FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A) (E	3)
5				Prevalence Index = B/A =	
6					
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
9.	-			2 - Dominance Test is >50%	
V1	26)	_ = Total Co		3 - Prevalence Index is ≤3.01	
50% of total cover: <u>15</u>	20%	_ = TO(a) CO	r:	4 - Morphological Adaptations (Provide support	ting
Herb Stratum (Plot size: 10)	2070 (or total cover	· 	data in Remarks or on a separate sheet)	
	25		FAL	Problematic Hydrophytic Vegetation ¹ (Explain)	
1. Microslegien rygunea 2. Atherum telex timina	100		EAC	•	
and the second s	- +3		FACW	Indicators of hydric soil and wetland hydrology mus	ţ
3 Impatiens caparis	- 12	- - /		- 1 be present, unless distarbed of problematic.	
4 toliggoren virginiani	-45-		FAC	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, les	cc
9				than 3 in. DBH and greater than or equal to 3.28 ft (33 (1
10				m) tall.	
11				Horb All harbacous (non woods) plants records	266
	<u> 77</u>	_ = Total Co	over	 Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. 	-33
50% of total cover: 35	20%	of total cove	er: (L		
Woody Vine Stratum (Plot size:)			··	Woody vine - All woody vines greater than 3.28 ft i	in
1				height.	
2				- }	
X Y/V				-	
3				-	
4				Hydrophytic \/	
5		 		_ Vegetation \(\)	
		_ = Total C		Present? Yes No	
50% of total cover:		of total cove	er:	_	
Remarks: (include photo numbers here or on a separate	sheet.)				

Sampling Point: _____ W

Profile Description: (Describe to the de	oth needed to document	the indicator o	r confirm t	the absence of indi	cators.)
Depth <u>Matrix</u>	Redox Fea				_
(inches) Color (moist) %		<u>Type</u>	Loc ^z	Texture	Remarks
0-12 104R4/2	101/R4/6 7	5 _	m.	LORM	
12-16+184RC111	1048 4/67.	5 C	m	Loum	
					
				······································	
	. 				
	·				
	· · · · · · · · · · · · · · · · · · ·				
¹ Type: C=Concentration, D=Depletion, RI	A-Paducad Matrix MS-M	asked Sand Gra	ains	²Location: PL=Pore	e Lining M=Matrix
Hydric Soil Indicators:	VI-Neduced Matrix, MS-Mi	asked Saild Gir	an to.		or Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7	n			uck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below		ILRA 147.		Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface				RA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed M			Piedmo	nt Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (RA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surf				nallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark St			Other (Explain in Remarks)
Thick Dark Surface (A12)Sandy Mucky Mineral (S1) (LRR N,	Redox Depression		וא ממח ז		
MLRA 147, 148)	Iron-Manganese MLRA 136)	Masses (F12) (LKK N,		•
Sandy Gleyed Matrix (S4)	Umbric Surface ((F13) (MI RA 13	86. 122)	3Indicator	s of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodp				hydrology must be present,
Stripped Matrix (S6)	Red Parent Mate				isturbed or problematic.
Restrictive Layer (if observed):				1	
Type:					
Depth (inches):				Hydric Soil Pres	ent? Yes No
Remarks:					
		(\		Hydric Soil Pres	ant
	Ftu	me	200	3 130c	
		5			

wdoh006_u



Upland data point wdoh006_u facing east



Upland data point wdoh006_u facing south

wdoh006 soils



Wetland/upland soils

WEILAND DETERMINATION DATA FORM – Eastern Mountains and Pledmont Region
Project/Site: Dollardge Sampling Date: 10-24-1
applicant/Owner: Dominion State: UV Sampling Point: POG00
nvestigator(s): Section, Township, Range:
andform (hillslope, terrace, etc.): Bottom and Local relief (concave, convex, none): concave Slope (%):
Subregion (LRR or MLRA): N Lat: 39° 20' 55,047" Long: 80° 38 18,010" Datum: WGS 8
Soil Map Unit Name: Gilpin + Pershoody Complex 15-3575 OPNWI classification: PEM
are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
y and the first of
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No
Remarks: Problematic hydric soil, obvious evidence of upland material evoding into bottom/ands. Used F-19 soil indiciptor
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) Saturation (A3) Solution (A3
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)
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 X No Depth (inches):
Saturation Present? Yes No Depth (inches): 500 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Remarks: Hydrology present Depressional area within Shool plain at
of the state of th
Depressional area withen thosplan as
the toe of slope.
The rocky stope.

GETATION (Four Strata) – Use scientific i			- at 1	Sampling Point:
ee Stratum (Plot size:)	Absolute % Cover	Dominant II Species?		Dominance Test worksheet:
Planus occidentalis	5	Species:	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
			11000	That Ale OBE, Thow, of the
				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 % Cover of: Multiply by:
7	2-2001	= Total Cove		OBL species x 1 =
50% of total cover: 2	20% 0	t total cover:		FACW species x 2 =
pling/Shrub Stratum (Plot size:)	~	. /		
Sambucus conadonsés			FIXW	
				FACU species x 4 = UPL species x 5 =
Culting the same of the same o		_		UPL species x 5 = Column Totals: (A) (B)
		-		Column rotals. (A)
To see the second		-		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
			-	1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.01
700/ 11		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 2	.5 20%	or total cover:		data in Remarks or on a separate sheet)
erb Stratum (Plot size:)	25		Fine	Problematic Hydrophytic Vegetation ¹ (Explain)
Bochmeria cylnonica	- 30	- —	FACU	
Microskejum Vminea	15		FAC	¹ Indicators of hydric soil and wetland hydrology must
Lycopus Virginica	- 12		OBL	be present, unless disturbed or problematic.
Carex comosa pensyumine	UM 12		FACH	Definitions of Four Vegetation Strata:
Polygonum schewood	_ 10	-	INCH	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
0				m) tall.
1,	-			Herb - All herbaceous (non-woody) plants, regardless
50% of total cover: <u>42</u>	1.88	_ = Total Co		of size, and woody plants less than 3.28 ft tall.
	20%	of total cover	:	Woody vine - All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size:)				height.
			-	
				-
				-
•			-	Hydrophytic
5				Vegetation Present? Yes No
PAGE - FL-1-1	-	_ = Total Co		LIESEUR 169 7 MO
50% of total cover:		of total cove	r:	-
Remarks: (Include photo numbers here or on a separa	te sheet.)			

D 41-	ription: (Describe to the d	
Depth inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type¹ Loc² Texture Remarks
- 8	104R4/2	WYR416 720 C M, PL LOAM
-16+	10VR 4/3	101:0
10	10110 113	104R 4/6 720 C M, PL CLBY LOWN
	-	
VD0: C-C	oncontration D-Dopletion F	M=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
	Indicators:	Indicators for Problematic Hydric Soils ³ :
_ Histosol		Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)
	istic (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) d Below Dark Surface (A11)	Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)
	ark Surface (A12)	Depleted Dark Surface (F7) Other (Explain in Remarks) Redox Depressions (F8)
	Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,
	A 147, 148)	MLRA 136)
	Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation and
	Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present,
	d Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
	Layer (if observed):	*
	1 1	
	nches):	Hydric Soil Present? Yes No
Remarks:		
		$11 \circ 11 $
		Hydriz soil present
		0 Lagrid
		*

wdog003e_w



wdog003e_w facing north



wdog003e_w facing east

WETLAND DETERMINATION DATA FORM -	- Eastern Mountains and Pledmont Region
Project/Site: DT 1 Supply Hers Dog City/C	ounty: Dodderdge Sampling Date 10-24-164
	State: WV Sampling Point: WD0600
	on, Township, Range:
Landform (hillslope, terrace, etc.): Hills lopo Local reli	
Subregion (LRR or MLRA): N Lat: 39°20'54	4.876" Long: 80° 38" (8.126" Datum: WES 84
Soil Map Unit Name: Octobe Good Action Inde	Sensabaugh NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:	Is the Sampled Area within a Wetland? Yes No
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	
High Water Table (A2) Hydrogen Sulfide Oc	The state of the s
The state of the s	res on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduce	
	on in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (
Algal Mat or Crust (B4) Other (Explain in Re	
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 _X Depth (inches):	Wetland Hydrology Present? Yes No_X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, principle of the content of	ravious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, dental photos, ph	evious inspections), ii available.
Remarks:	0
No hydrology prese	thon from adjacent wething
16.00	+ Carolina
LOUIS ME IN CHOUR	hon from acqueens we

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

LOZIMION (I our outur) - 000 3010 mino m	At the Salahata	5
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
		Number of Dominant Species
1. Heer sockarum Sixcharum		That Are OBL, FACW, or FAC: (A)
2. Quercus relutina	20 U NE	Total Number of Deminant
3. Acer vulnum	20 / FAC	Total Number of Dominant Species Across All Strata: (B)
4. Linodendron tulipitera		Species Across Air Strata.
4. LINDSWINGS TUMPINEICA	20 J FACU	Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7 <u>2</u>		Prevalence Index worksheet:
7	- GO	Total % Cover of: Multiply by:
19	90 = Total Cover	
50% of total cover:	20% of total cover: []	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:	/	FACW species x 2 =
1. Linolandron tulipitera	10 V FACU	FAC species $20 \times 3 = 60$
Acres de la	/	FACU species 9.5 x 4 = 380
2. Ker succeprum	20 V FACU	The state of the s
3		UPL species x 5 =
4		Column Totals: (A) 440 (B)
		3 271.
5		Prevalence Index = B/A = 3.826
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		10000000
		2 - Dominance Test is >50%
9,	70	3 - Prevalence Index is ≤3.01
1.0	30 = Total Cover	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover: 15	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	- /	The Authority of the Control of the
1. Polystichem acrostordos	15 / FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
1 = ()		
2,		¹ Indicators of hydric soil and wetland hydrology must
3		be present, unless disturbed or problematic.
4		•
		Definitions of Four Vegetation Strata:
5,		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
6	the management bearing the second	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
	15 = Total Cover	of size, and woody plants less than 3.28 ft tall.
76	= Total Cover	of size, and woody plants less than 5.20 it tall.
	20% of total cover: 3	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)		height.
1		
2 //		
1002		•
3		
4		Hydrophytic
5.		Vegetation
C	- Total Court	Present? Yes No _/
E00/ -51-1-1	= Total Cover	
	20% of total cover:	
Remarks: (Include photo numbers here or on a separate	e sheet.)	

Sampling Point: _____U

Profile Description: (Describe to the dept	th needed to document the indicator or confirm t	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-8 LOYR 4/3_		100m
8-16+ COYR 4/3	104R4/6 <5 c m	elay loan
10 10 11 11	DIK 110 -5 C III	CINGLOSIFIC
	-	
	A CONTRACTOR OF THE PARTY OF TH	
	Desired to the second s	
And the second s	Market Committee of the	
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
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)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		N
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
	No hydric s	
	100 regolares	or present
	,	100000
1		

wdog003_u



wdog003_u facing south



wdog003_u facing west

wdog003 soil



wdog003 soil

	- Eastern Mountains and Pledmont Region
Project/Site: DTI Emply Header City/C	County: Doddridge Co Sampling Date: 10/25/15
Applicant/Owner: Dominson	State: WV Sampling Point: ************************************
	on, Township, Range:
Landform (hillslope, terrace, etc.):	lief (concave, convex, none): (CA CA J. Slope (%): 10
Subregion (LRR or MLRA): LRF N Lat: 39° 22' 59.	030" Long: 30'38'19,775 Datum: W6586
Soil Map Unit Name: Sensabagan	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes Vo
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Wetland preset, Located	Is the Sampled Area within a Wetland? Yes No
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 (
High Water Table (A2) Hydrogen Sulfide Od	
Saturation (A3) Oxidized Rhizospher	res on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced	d Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction	
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Rer 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)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	. 2 -
Water Table Present? Yes No Depth (inches):@	inface
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
	. Flows south to sdoholo.
Streen Mosgh werens	, Mous 30014 10 3001010,
Stream through netland (sdoholl)	
	<u> </u>
	200
T.	I

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

Sampling Point: Wook 00 4e-w

4		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species FACW species X 2 = FAC species FACU species X 4 =
3		UPL species x 5 = (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
9	50 Y 084 40 Y FAC	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Cyperus Peythrorhizos 4. Lacus effusus 5. Typhas latifolia 6. Symphyo Trichum Pilosum 7. 8.	5 Ptrw 5 OBL 1 FAC	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.
9		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.
1		Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate standards) Hydrophytic vegetation		

Profile Description: (Describe to the de	epth needed to document the indicator or confirm	the absence of indicators.)
DepthMatrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Remarks
6-4 10 VR 4/2 85	5 XR 5/8 15 C PL	Stroan
4-16+ 7.5 YR4/2 70	Glev I SIDGY TO D M	S. H. Visian
, , , ,	SYRXIS 10 C PL	201 1000
	3/10 C 15	
, e		
¹ Type: C=Concentration D=Depletion RI	M=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	W Reduced Matrix, Mo-Masked Garia Grains.	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
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) Sandy Mucky Mineral (S1) (LRR N,	Redox Depressions (F8)	
MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14)	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		Nyana san resent. Tes No
41 1-		
Hydric s	oil presed	
*		
**		e e
<i>.</i>		

wdoh004e_w



wdoh004e_w facing north



wdoh004e_w facing east

	ORM – Eastern Mountains and Piedmont Region
Project/Site: DTI Lippy Healer	City/County: Doldridge Co. Sampling Date: 10/24/14
Applicant/Owner:	State: WV Sampling Point: wdbhO
Investigator(s): 0 + 0 Wes	Section, Township, Range:
	ocal relief (concave, convex, none): Slope (%): 13
Soil Map Unit Name: Sen Sa Layah	A
	NWI classification: not mapped
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
wetland not present.	Aren regularly nowed
HYDROLOGY	8
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 F	
High Water Table (A2) Hydrogen Sulf	
	ospheres on Living Roots (C3) Moss Trim Lines (B16)
1A/-4 A/- 1 (D/)	Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Re	eduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Sur	
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	s): <u>///</u>
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
WALL LIE	T Angela at
Without hybriday rad	, preserv
4524	
€ }	
*	

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

Sampling Point: wdoh co4 o

Trop Stretum /Dist since	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		
3		Total Number of Dominant Species Across All Strata: (B)
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6	t	Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
1		FAC species
2		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: 100 (A) 370 (B)
5		Prevalence Index = B/A = 3. 7
6		Trovalence maex Birt
7		Hydrophytic Vegetation Indicators:
8		1 - Rapid Test for Hydrophytic Vegetation
9		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover:	20% of total cover:	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:)		data in Remarks or on a separate sheet)
1. Dartylis glomerata	60 Y FACO	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Seteria Junia	36 Y FAC	the programme of the pr
3. Trifolium preterse	10 N FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		Definitions of Four Vegetation Strata:
5		
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7		height.
8		Sanling/Shouth Wasdaniants and discount
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
50% of Astal assum 6.0	= Total Cover 20% of total cover: 7	of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)	20% of total cover:	Woody vine – All woody vines greater than 3.28 ft in
1		height.
2		
3		
3	We will a state of the state of	<u></u>
5		Hydrophytic
J		Vegetation Present? Yes
50% of total cover:	= Total Cover	resent: res NO
Remarks: (Include photo numbers here or on a separate s	heet)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11661.)	
Hydrophytic vegetation	now present	

Sampling Point: wdoh 0045

Profile Des	cription: (Describe to	the dept	h needed to	document t	he indicator	or confin	m the absence of	indicators
Depth	Matrix			Redox Feat	ures		and appende of	maicators.)
(inches)	Color (moist)	%	Color (mo	oist) %	Type ¹	_Loc ²	Texture	Remarks
0-6	10 VR 3/4	100						. vomarno
6-18-	10 YR 414	100					loan_	
2 10	10 110 114	100					Joan -	
						333		
						***************************************	1.	
		-				· -		
	· · · · · · · · · · · · · · · · · · ·						-	
				· · · · · · · · · · · · · · · · · · ·				
	-							
-								
-								5 4
¹ Type: C=C	oncentration, D=Deple	tion, RM=F	Reduced Ma	trix, MS=Mas	ked Sand Gra	ins	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soil	Indicators:			,			Indicator	s for Problematic Hydric Soils ³ :
Histosol	,		Dark S	Surface (S7)				Muck (A10) (MLRA 147)
	pipedon (A2)			alue Below Su	rface (S8) (N	LRA 147		t Prairie Redox (A16)
	istic (A3)		Thin D	Oark Surface (S9) (MLRA 1	47, 148)		LRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy	Gleyed Matr	ix (F2)	,,		mont Floodplain Soils (F19)
	d Layers (A5)		Deple	ted Matrix (F3)			LRA 136, 147)
	uck (A10) (LRR N)			Dark Surface				Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface (A11)		ted Dark Surfa				(Explain in Remarks)
	ark Surface (A12)			Depressions				,
	Mucky Mineral (S1) (LR	RN,	Iron-M	langanese Ma	sses (F12) (L	RR N,		
	A 147, 148)			RA 136)				
	Gleyed Matrix (S4) Redox (S5)		Umbri	c Surface (F1	3) (MLRA 13	5, 122)	³ Indicate	ors of hydrophytic vegetation and
	Matrix (S6)		Piedm	ont Floodplair	Soils (F19)	MLRA 14		d hydrology must be present,
	Layer (if observed):		Red P	arent Material	(F21) (MLR	127, 147	7) unless	disturbed or problematic.
Type:	-ayer (ii observeu).							
100.00	1 \		_					
Depth (inc	cnes):						Hydric Soil Pre	sent? Yes No
Remarks:								
	March.	1	- 1	0	0		10 1	1
	ivon ny	1. 16	3011	preser	. 20.	18	disturbe	
							*:	
					*			
				19.1				

wdoh004_u



wdoh004_u facing south



wdoh004_u facing west

wdoh004 soil



wdoh004 soil

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header P	roject	City/C	county: Doddridge County	y	Sampling Date: 12/1/2016	
Applicant/Owner: Dominion					Sampling Point: wdoa100e_w	
Investigator(s): GB, AD Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, et					Slone (%): 2	
Subregion (LRR or MLRA): N					Slope (78) Datum: WGS 1984	
Soil Map Unit Name: Chagrin		.at:	Long:		Datum: *****	
Are climatic / hydrologic condit		· ·				
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Normal	Circumstances" pre	esent? Yes No	
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If needed, e	xplain any answers	in Remarks.)	
SUMMARY OF FINDIN	GS – Attach site	map showing sam	npling point locatio	ns, transects,	important features, etc.	
Hydrophytic Vegetation Pres	ent? Yes	No				
Hydric Soil Present?	Yes Y		Is the Sampled Area within a Wetland?	Vac V	No	
Wetland Hydrology Present?			within a wetiand?	res	NO	
Remarks:						
Surface saturated PEM wettal head; landowner is in the proof to ditch.	nd located in a slight on the case of draining this fe	depression on the floodpl eature as there is a partia	ain of perennial stream s illy dug ditch and several	doh012; hydrology pieces of corrugate	is from the overflow of a well d plastic drain pipe lying next	
HYDROLOGY						
Wetland Hydrology Indicate	ors:			Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum	of one is required; ch	eck all that apply)		Surface Soil C	, ,	
Surface Water (A1)		B14)	Sparsely Vege	tated Concave Surface (B8)		
High Water Table (A2)	=	or (C1)	Drainage Patte			
Saturation (A3)	-		es on Living Roots (C3)	Moss Trim Line	` '	
Water Marks (B1)		Presence of ReducedRecent Iron Reductio		Crayfish Burro	ater Table (C2)	
Sediment Deposits (B2)	_			_ ′	` '	
Drift Deposits (B3) Algal Mat or Crust (B4)	_	Thin Muck Surface (COther (Explain in Ren			ble on Aerial Imagery (C9) essed Plants (D1)	
Iron Deposits (B5)	-	Other (Explain in Nei	nans)	Geomorphic P	* *	
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquita		
Water-Stained Leaves (E				Microtopograp		
Aquatic Fauna (B13)	,			✓ FAC-Neutral T		
Field Observations:					. ,	
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present?		Depth (inches):	^	ydrology Present?	? Yes ✔ No	
(includes capillary fringe)						
Describe Recorded Data (str	eam gauge, monitorin	g well, aerial photos, pre	vious inspections), if avai	ilable:		
Remarks:						
surface saturated from 0-3 inc	ches					

'EGETATION (Four Strata) – Use scienti	fic names of	plants.		Sampling Point: wdoa100e_w
	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:30) 1. none	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				(,
5				Percent of Dominant Species That Are ORL EACW or EAC: 100 (A/R)
6.				That Are OBL, FACW, or FAC: (A/B)
_	·			Prevalence Index worksheet:
7		= Total Cove		Total % Cover of: Multiply by:
50% of total cover:		total cover:_	0	OBL species0 x 1 =0
15	20 % 01	total cover		FACW species55
Sapling/Shrub Stratum (Plot size: 13 none	_)			FAC species 10 x 3 = 30
·· <u> </u>				FACU species 5 x 4 = 20
2				UPL species $0 \times 5 = 0$
3				70 160
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =2.28
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	0	= Total Cove		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover:		total cover:_	0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5		_		data in Remarks or on a separate sheet)
1 Panicum hemitomon	40	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Paspalum bifidum	<u></u>	Yes	FACW	
3. Dichanthelium clandestinum	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
4 Rumex obtusifolius		No	FACU	be present, unless disturbed or problematic.
			1700	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				Herb – All herbaceous (non-woody) plants, regardless
	70	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: _	35 20% of	total cover:_	14	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Woody Vine Stratum (Plot size: 30)				Woody vine – All woody vines greater than 3.28 ft in height.
1. none	0			noight.
2.				
3				
4				Hydrophytic
5				Vegetation Present? Yes ✓ No
500/ / /		= Total Cove	er O	Tresent: Tes No
50% of total cover: _	2070 01	total cover:_		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			
vegetation recently mowed				

Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)		ype ¹	Loc ²	Texture	Rem	arks
0-3	7.5YR 3/2	100					SICL		
3-13	7.5YR 4/2	95	7.5YR 4/6	5	С	PL/M	SICL		
13-18	7.5YR 3/4	100		 -			CL	-	
				<u> </u>					
1- 0.0							2, ,, ,		
Type: C=C Hydric Soil		epletion, RM	I=Reduced Matrix, M	S=Masked Sa	nd Graii	ns.		L=Pore Lining, M=N	
-			5	(07)				ators for Problema	
Histosol			Dark Surface	. ,	CO) /841	DA 447		cm Muck (A10) (MI	•
	pipedon (A2) istic (A3)		·	elow Surface (urface (S9) (M l			148) (Coast Prairie Redox (MLRA 147, 148)	(A16)
	en Sulfide (A4)			ed Matrix (F2)	LKA 14	7, 140)	_	Piedmont Floodplain	Soile (F10)
	d Layers (A5)		<u>✓</u> Depleted Ma				— '	(MLRA 136, 147)	3013 (1 19)
	uck (A10) (LRR N)		Redox Dark				V	ery Shallow Dark S	urface (TF12)
	d Below Dark Surfa			rk Surface (F7	')			Other (Explain in Rei	
	ark Surface (A12)	, ,	Redox Depre	•	,			` '	,
	Mucky Mineral (S1)	(LRR N,		ese Masses (I	F12) (Li	RR N,			
	A 147, 148)		MLRA 13						
	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (ML I	RA 136	, 122)	³ Inc	licators of hydrophy	tic vegetation and
	Redox (S5)			oodplain Soils				etland hydrology mu	
	d Matrix (S6)		Red Parent I	Material (F21)	(MLRA	127, 147) un	less disturbed or pro	oblematic.
	Layer (if observed	d):							
Type: no	ле								
Depth (in	ches):						Hydric Soil	Present? Yes _	No
Remarks:									



Wetland data point WDOA100e_w facing north



Wetland data point WDOA100e_w facing east

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header P	roject	City/C	county: Doddridge County	1	Sampling Date: 12/1/2016	
Applicant/Owner: Dominion					Sampling Point: wdoa100_u	
nvestigator(s): GB, AD Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, et						
Subregion (LRR or MLRA): N					Datum: WGS 1984	
Soil Map Unit Name: Chagrin			Long: noded	A DA 0 1	UPI AND	
Are climatic / hydrologic condit		·				
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Normal	Circumstances"	present? Yes V No No	
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If needed, e	xplain any answe	ers in Remarks.)	
SUMMARY OF FINDING	GS – Attach site	map showing sam	pling point locatio	ns, transects	s, important features, etc.	
Lludraphytic Vanatation Drag	ont? You	No. 4				
Hydrophytic Vegetation Prese Hydric Soil Present?		No 🗸	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No 🗸	within a Wetland?	Yes	No	
Remarks:						
Opiano data point taken in a n	ayneid on the hoodpa	ain or perenniai stream si	ooa012 for a surface satu	irated PEM Wetia	and located in a slight depression.	
HYDROLOGY						
Wetland Hydrology Indicate	ors:			Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum	of one is required; ch	eck 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 Ode		Drainage Pa	atterns (B10)	
Saturation (A3)		Oxidized Rhizosphere		Moss Trim L		
Water Marks (B1)		Presence of Reduced		-	Water Table (C2)	
Sediment Deposits (B2)	_	Recent Iron Reductio		Crayfish Bu		
Drift Deposits (B3)	_	Thin Muck Surface (C			/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	_	Other (Explain in Ren	narks)		Stressed Plants (D1)	
Iron Deposits (B5)	rial Imagary (P7)			Geomorphic	, ,	
Inundation Visible on Ae Water-Stained Leaves (E				Shallow Aqu	aphic Relief (D4)	
Aquatic Fauna (B13)	19)			FAC-Neutra	• • • •	
Field Observations:						
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present?		Depth (inches):		vdrology Prese	nt? Yes No	
(includes capillary fringe)		_ , , , , _			100 110	
Describe Recorded Data (stre	eam gauge, monitorin	g well, aerial photos, pre	vious inspections), if avai	lable:		
Remarks:						
insufficient hydrology indicato	rs present					

ղք∙wdoa100_	_u
	າt: ^{wdoa100} _

00	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Prunus serotina	10	Yes	FACU	That Are OBL, FACW, or FAC: (A)
2. Acer negundo	5	Yes	FAC	Total Number of Deminant
3				Total Number of Dominant Species Across All Strata: 8 (B)
				Openies / toross / tir etrata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 25 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove		
50% of total cover: 7.5	20% of	total cover:	3	ODL species
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1. Ligustrum vulgare	5	Yes	FACU	FAC species20
2. Elaeagnus umbellata	5	Yes		FACU species88 x 4 =352
3. Rosa multiflora		Yes	FACU	UPL species0 x 5 =0
	2	No	FACU	Column Totals: 108 (A) 412 (B)
4. Lonicera morrowii			1 700	Column Totals (A) (B)
5				Prevalence Index = B/A = 3.81
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9	17			3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 8.5		= Total Cove	er 3.4	4 - Morphological Adaptations ¹ (Provide supporting
	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Schedonorus arundinaceus	35	Yes	FACU	1 Toblematic Trydrophytic Vegetation (Explain)
2. Dactylis glomerata	20	Yes	FACU	1
3. Dichanthelium clandestinum	10	No	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Polystichum acrostichoides	5	No	FACU	
5 Rumex obtusifolius	3	No	FACU	Definitions of Four Vegetation Strata:
6. Taraxacum officinale	3	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Taraxacum omemaie		110	1 700	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.				
	76	Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 38		= Total Cove total cover:		or size, and woody plants less than 5.20 it tall.
0070 01 total 00001:	20% 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
(1 lot size:	_	V	EAC	height.
1. Smilax rotundifolia	5	Yes	FAC	
2				
3				
4				
5.				Hydrophytic
J	0	T-1-10		Vegetation Present? Yes No
50% of total cover: 2.5		= Total Cove	er 1	· · · · · · · · · · · · · · · · · · ·
0070 01 total 00701:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	Matrix		Redox Features	 _	
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Lo	oc² Textur	
0-5	7.5YR 3/3	100		SICL	•
5-18	7.5YR 3/4	100		CL	
	-				
		. <u> </u>			
		- <u></u>			
	-	· — — —			
					 ,
					<u> </u>
Tunor C Cr	noontrotion D Don	lation DM D	adveced Metrix MC Meeked Cond Crains	2l acatio	n: PL=Pore Lining, M=Matrix.
lydric Soil		ilelion, Rivi=Re	educed Matrix, MS=Masked Sand Grains.		ndicators for Problematic Hydric Soils ³ :
-			D = 11 O = 15 (OZ)		
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA		Coast Prairie Redox (A16)
Black Hi			Thin Dark Surface (S9) (MLRA 147,	148)	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	ick (A10) (LRR N)	(* ()	Redox Dark Surface (F6)	_	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
	lucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR	N,	
	A 147, 148)		MLRA 136)		3
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12		³ Indicators of hydrophytic vegetation and
	tedox (S5)		Piedmont Floodplain Soils (F19) (ML		wetland hydrology must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 12	7, 147)	unless disturbed or problematic.
	_ayer (if observed):				
Type: no	ne		<u> </u>		_
Depth (inc	ches):		_	Hydric	Soil Present? Yes No
Remarks:				l l	



Upland data point WDOA100_u facing west



Upland data point WDOA100_u facing south

WETLAND DETERMINATION DATA FORM – Eastern Mour	otains and Diodreams Barris
Project/Site: Siegly bender City/County: Dad	7-10-15
Applicant/Owner: Dominion City/County: 1708	
Investigator(s): DAWEST	State: USV Sampling Points
Landform (hillslope, terrace, etc.): Legace 35 mm foot of Milislope, terrace, etc.):	e:
Subregion (LRR or MLRA): Lat: 39°24'02.887" Long: Soil Map Unit Name: Sensabough Silf Lorum	^
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	NWI classification: \mathcal{PEM}
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "No	(If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? Are "No	ormal Circumstances" present? Yes No
naturally problematic?	
SUMMARY OF FINDINGS – Attach site map showing sampling point loc	ations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sampled A within a Wetland?	rea (/
Confinctor yard with gravel,	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
	Surface Soil Cracks (B6)
High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8)
Ovidized Dhizagalana	Drainage Patterns (B10)
Sediment Pensaits (20)	Dry-Season Water Toble (Co)
Drift Deposits (B2) Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Algal Mat or Crist (D4) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Aquatic Fauna (B13)	Microtopographic Relief (D4)
Field Observations:	X FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Denth (inches).	
Saturation Present? Yes No Depth (inches): Wetlan	nd Hydrology Present? Yes
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	No
Remarks:	available:
Hydrobogy present	_
2 0) P & APA	
	j
	1

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

1. Photomus occidentalis	1		
4			Total Number of Dominant
6			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
7			Prevalence Index worksheet:
50% of total cover:	$\int D_{z}$	otal Cover	Total % Cover of: Multiply by:
Sapilita/Shrub Stratum (Diet size)	20% of total	al cover: 2	OBL species x 1 =
Selly him			racw speciesx2=
Polygonum Cuspidatum	$-\frac{10}{10}$	- 0B	<u>C</u> TAC species x 3 ≈
/ ·		$\frac{\vee}{}$ ν_1	x 4 =
			x 5 =
		***************************************	Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	_		2 - Dominance Test is >50%
50% of total - 1	20 = To	tal Cover	1100 HIGEN 12 22'O
erb Stratum (Plot size: 150% of total cover: 1	20% of total	cover:	4 - Morphological Adaptations¹ (Provide supporting
Tuncin effusions	,	, -	uata in Remarks or on a separate sheet)
arex comoso	- <u>- </u>	- FACE	Problematic Hydrophytic Vegetation ¹ (Explain)
scrpus sol al	_ 25	VOBL	-
Caralegraphicals	_ <u> </u>	J OBL	Indicators of hydric soil and water to
Micros begin ciminea	<u> </u>		distribed of bloblematic
Important Cominea	20	V FAC	Definitions of Four Vegetation Strata:
Impatiens copensis	10		Tree - Woody plants avaluation
			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
ody Vine Stratum (Plot size:	= Tota 20% of total c	al 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.
1000			
			Hydrophytic Vegetation
50% of total	= Total	Cover	Present? Vac /
50% of total cover:	20% of total co	over:	Yes V No
runners here or on a separate sh	neet.)		

Sampling Point W 20HOUSE

Profile Description: (Describe to the dep	th needed to document the i	ndicator or agréfien	Alon ob and S	Sampling Point voices
Depth Matrix	Podov Facture	indicator or confirm	the absence of inc	licators,)
(inches) Color (moist) %	Redox Features Color (moist) %			
0-5 LOYR 2/1		Type' Loc ²	<u>Texture</u>	Remarks
	15510		Loun	
5-16 104R4/1	184R416 75	C PLM	CLAUS	
			<u> </u>	
			-	
¹ Type: C=Concentration, D=Depletion, PM-	- Dodugod Martin Ma			
Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators:	-Neduced Matrix, MS=Masked	Sand Grains.	² Location: PL=Pore	e Lining, M=Matrix.
Histosol (A1)	0.1.		Indicators f	or Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Dark Surface (S7)		2 cm M	uck (A10) (MLRA 147)
Black Histic (A3)	Polyvalue Below Surface	ce (S8) (MLRA 147,	148) Coast P	rairie Redox (A16)
Hydrogen Sulfide (A4)	Thin Dark Surface (S9)	(MLRA 147, 148)	(MLR	RA 147, 148)
Stratified Layers (A5)	Loamy Gleyed Matrix (I	=2)	Piedmo	nt Floodplain Soils (F19)
2 cm Muck (A10) (LRR N)	Depleted Matrix (F3)		(MLR	A 136, 147)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F	6)	Very Sh	allow Dark Surface (TF12)
Thick Dark Surface (A12)	Depleted Dark Surface Redox Depressions (F8)	(F7)	Other (E	Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N.	Redox Depressions (Fa	5) - (510) (1 5 5 5 5 1		
MLRA 147, 148)	Iron-Manganese Masse MLRA 136)	s (FT2) (LRR N,		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (I	M D 0 400 400	2	
Sandy Redox (S5)	Piedmont Floodulein Co	VILRA 136, 122)	Indicators	of hydrophytic vegetation and
Stripped Matrix (S6)	Piedmont Floodplain So	0115 (F19) (IVILRA 148		nydrology must be present,
Restrictive Layer (if observed):	Red Parent Material (F2	(MERA 127, 147)	unless dis	sturbed or problematic.
Type:				
Depth (inches):				1/
Remarks:			Hydric Soil Prese	nt? Yes 💹 No
remarks.				
	M_{-} M_{\sim}	ic soi	() a post	2007
	Agen		+ Pres	50A
	\mathcal{O}		•	
		*		
				1
				1

wdoh005e_w



Wetland data point wdoh005e_w facing east



Wetland data point *wdoh005e_w* facing south

WEILAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region	_
Project/Site: Supely Hender City/County: Doctor Sampling Da Applicant/Owner: Dominion	7.50.0
Applicant/Owner: Dominism City/County: Doctorios Sampling Da	te: 128-15
Investigator(s): State: Sampling F	oint: NOOHO
Landform (hillstone terroes and Classical Section, Lownship, Range:	\cup
Subregion (LRR or MI RA):	Slope (%):
Soil Map Unit Name: Same to Live J. Day	tum: <u>W€5</u> 8
Are climatic / hydrologic conditions on the cita twice 15 and 15	א דודות
o myulology significantly disturbed a significant disturbed a si	🗸
, soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important)
Hydrophytic Vegetation Present? Yes No X	features, etc.
Hydric Soil Present? Yes No X Is the Sampled Area	,
Wetland Hydrology Present? Yes No Within a Wetland? Yes No	
Remarks:	
Contractor yard. Filled with gravel	
med with graves	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum	of two required)
Surface water (A1)	
Hydrogen Cultille O. J. (2.1)	e Surface (B8)
Saturation (A3) Water Marks (B1) — Mydrogen Suride Odor (C1) — Oxidized Rhizospheres on Living Roots (C3) — Moss Trim Lines (B16)	
Sediment Deposits (Pa) — Presence of Reduced Iron (C4) Dry-Season Water Table (C	2)
Drift Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C9)	۱ (۲
Algal Mat or Cruck (PA) — Thin Muck Surface (C7) Saturation Visible on Agricult	madory (CO)
	D1)
Inundation Visible on Aerial Imagery (B7) Geomorphic Position (D2)	
Water-Stained Leaves (B9) Shallow Aquitard (D3)	
Aquatic Fauna (B13) Microtopographic Relief (D4)	
Field Observations: FAC-Neutral Test (D5)	
Surface Water Duranto	
Water Table Procent?	
Saturation Present? Ves No V	
(IIICIUDES CADIIIary tripge)	_ No/X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	
$M \supset M \supset M$	
No Mydrology Dags	·
No hydrology present.	
\cdot	



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

Tree Stratum (Plot size:)	Absolute Dominant Indicate	Sampling Point: <u>いたの</u> HOO」
Tree Stratum (Plot Size: 20,	% Cover Species? Status	
	Otto	" Number of Dominant Species
		That Are OBL, FACW, or FAC: (A)
3	Photographic property and control of the control of	Total Number of Dominant
4 A V		Species Across All Strate
5		
6.		Percent of Dominant Species That Are OBL, FACW, or FAC:
6		(A/
7		Prevalence index worksheet:
		Total % Cover of: Multiply by:
Sapling/Shruh Strature (D)	= Total Cover ====================================	OBL species x 1 =
(1 lot 3/26,	1	FACW species x 2 =
12		FAC species x3 =
		FACU species x 4 =
		UPL species
5 por		Column Totals: (A) (B
		(A)(A)
S		Trovalence index = B/A =
3		and the season indicatols:
		1 - Rapid Test for Hydrophytic Vegetation
),		2 - Dominance Test is >50%
	- Total O-	3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: / 50% of total cover:	20% of total cover-	4 - Morphological Adaptations (Provide supporting
Amazona or kmisifica		data in Remarks or on a separate sheet)
Principala or kmasitelia	- 5 V FACU	
- Locketta Will Comme	7	
- II III II I	_ S V FACU	Indicators of bydric soil and watered to the
Cont My toll to		a process, unless disturbed or problematic.
The state of the s		Definitions of Four Vegetation Strate
	Charles and the control of the contr	Tree - Woody plants ovaluation at
		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
		in Donatio greater than or equal to 3.29 ft /1
		m) tall.
		Herb All herbaceous (non-woody) plants, regardless
50% of total cover: _ [20% of total cover:	of size, and woody plants less than 3.28 ft tall.
oody Vine Stratum (Plot size:	2070 OF LOTAL COVER:	Woody vine - All woody vines greater than 3.28 ft in
)		height.
TONZ		
		Hydrophytic
		Vegetation
50% of total cover-	= Total Cover 20% of total cover:	Present? Yes No
marks: (Include photo numbers here or on a separate	20% of total cover:	
Gravel contractor		
contracter	Varol	
	Just	



SOIL

Ö5

Profile Desc	cription: (Describe t	o the depth	needed to do	cument the i	indicator	or confirm	Al t	Samp	ing Point: WDOHO
1			Da	edox Feature	mulcator (or confirm	the absence	e of indicators.)	
(inches)	Color (moist)	_ %	Color (moist)	%		_Loc²	Tout	_	
0.8	184R 4/12						Texture		emarks
8-167	1×1/2 4/2		#				SANdy	Osten	
0 / 0	10 100 1/2						Stona	lown	
								- L- CALL	
				-		_			

								·	
					·				
¹Type: C=Cd	ncontration D. D.								
Hydric Soil	oncentration, D=Deple	etion, RM=Re	duced Matrix,	MS=Masked	Sand Gra	ins.	² Location: F	PL=Pore Lining, M=	Matrix
_							Indic	ators for Problem	natic Hydric Soils ³ :
Histosol			Dark Surfa	ace (S7)			,	cm Muck (A10) (r	
	ipedon (A2)		Polyvalue	Below Surface	ce (S8) (M	LRA 147	148)	Coast Prairie Redo	VILRA 147)
Black His			Thin Dark	Surface (S9)	(MLRA 1	47. 148)	140) (MLRA 147, 148)	X (A 16)
Hydroge	n Sulfide (A4)		Loamy Gle	eyed Matrix (J	F2)	,,	c	inicka 147, 148)
Stratified	Layers (A5)		Depleted I	Vlatrix (F3)			<u> </u>	Piedmont Floodplai (MLRA 136, 147)	n Solis (F19)
2 cm iviu	ck (A10) (LRR N)		Redox Da	rk Surface (F	6)		,	(IVILIAN 136, 147) Curson - (7540)
Depleted	Below Dark Surface	(A11)	Depleted [Dark Surface	(F7)		<u> </u>	/ery Shallow Dark Other (Explain in R	Surrace (1F12)
Trick Da	rk Surface (A12)		Redox De	pressions (F8	3)		`	oniei (Exhigiti ili K	emarks)
Sandy M	ucky Mineral (S1) (Li	RRN,	Iron-Mang	anese Masse	es (F12) (L	PR N			
MLRA	147, 148)		MLRA	136)	() (=				
Sandy G	leyed Matrix (\$4)	_	Umbric Su	rface (F13) (MI DA 126	122)	3,		
Sandy R	edox (S5)	_	Piedmont I	Floodolain Sc	nile (E10) (7, 122) 'NALEDA 441	าเกด	licators of hydroph	ytic vegetation and
Stripped	Matrix (S6)	•	Red Paren	t Material (E:	21) (51 19) (21) (58) (20)	IVILKA 148		etland hydrology m	ust be present,
Restrictive L	ayer (if observed):			it material (12	Z I / (IVILKA	127, 147,) ur	less disturbed or p	roblematic.
Type:									
Depth (inc	hes):		-						, /·
Remarks:							Hydric Soil	Present? Yes	No 💢
remains,							L		
			_	,				^	
			V)_ /	/				1)	
			Kb 1	reg do	ic S	عبسكا	Elaca	a C	
						•	معالاته	TECA!	i
									Į
									ĺ

wdoh005_u



Upland data point wdoh005_u facing east



Upland data point wdoh005_u facing south

wdoh005 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM -	- Eastern Mountains and Piedmont Region
Project/Site: DT Supply Herson City/Ci	ounty: Dodda dee Sampling Date: 4-28-15
Applicant/Owner: Dominion	State: WV Sampling Point VDO (25
Investigator(s): T. Ouncron J. Gay Section	
Landform (hillslope, terrace, etc.): Flood plain/depression Local relia	
	3" Long: 80° 37' 46-77" Datum: WGS 85
Soil Map Unit Name/ Sensnbrugh Silt loam	~ <i>/</i>
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly disturb	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: All three parameters prese	
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	
High Water Table (A2) Hydrogen Sulfide Od Softwarting (A3)	
Saturation (A3) Water Marks (B1) Oxidized Rhizospher Presence of Reduce	res on Living Roots (C3) Moss Trim Lines (B16) d Iron (C4) Dry-Season Water Table (C2)
	on in Tilled Soils (C6) Crayfish Burrows (C8)
☑ Drift Deposits (B3)	
Algal Mat or Crust (B4) Other (Explain in Re	emarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
★ Water-Stained Leaves (B9) ★ Aquatic Fauna (B13)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	Z rAc-iveulial resi (DS)
Surface Water Present? Yes No Depth (inches):	<i>?</i> ''
Water Table Present? Yes No Depth (inches): SI	iraneo
Saturation Present? Yes Yes No Depth (inches): 51	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	0
Hydrology prese	ent
;	
	•

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

Sampling Point:

Tree Stratum (Plot size: 30) 1. Notamus occidentalis	Absolute Dominant Indicator <u>% Cover Species? Status</u> 15 FAC	Number of Dominant Species
3		Total Number of Dominant Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet: Total % Cover of: Multiply by:
50% of total cover:	7.5° 20% of total cover: 3	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:		FACW species x 2 =
1. Salve riveres -	<u>40 V 0B1</u>	
2. Platonus occidentalis	20 V FAC	FACU species x 4 =
3. 4.		UPL species
5		Prevalence Index = B/A =
6		
8		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.01
2	= Total Cover	4 - Morphological Adaptations (Provide supporting
1	20% of total cover: 1 Z	data in Remarks or on a separate sheet)
	35 V OB	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Carex comosa 2. Onocloa sensibilis	$\frac{35}{20} \checkmark \frac{08}{50}$	
3. BACODA CAROliniana	15 / 05	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Tuncus offisus	20 V FAC	Definitions of Four Vegetation Strata:
5		Tree - Woody plants, excluding vines, 3 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		Herb - All herbaceous (non-woody) plants, regardless
	45 20% of total cover: 18	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:) 1		height.
2. 3. JONE		
4.	سند مستهد ينسبد سد	Hydrophytic Vegetation
50% of total cover:	= Total Cover 20% of total cover:	Present? Yes No No
Remarks: (Include photo numbers here or on a separ		

Profile Description: (Desc	ribe to the depth needed	to document the indic	ator or confirm th	e absence of indicators	5.)
DepthMa		Redox Features			
(inches) Color (moi			/pe ¹ Loc ²	Texture	Remarks
0-13 104R 4/2	<u>/</u>	416 710 C	_ M dri	DAM	
13-18+184R41	310YR	4/6 710	Lma	lay loam	
				J	
					
					
					
			·		
¹ Type: C=Concentration, [D=Depletion, RM=Reduced	Matrix, MS=Masked Sa	nd Grains. 2	Location: PL=Pore Linin	
Hydric Soil Indicators:				Indicators for Pro	oblematic Hydric Soils ³ :
Histosol (A1)		rk Surface (S7)			10) (MLRA 147)
Histic Epipedon (A2)		lyvalue Below Surface			
Black Histic (A3)		in Dark Surface (S9) (N		(MLRA 147	
Hydrogen Sulfide (A4)Stratified Layers (A5)		amy Gleyed Matrix (F2) epleted Matrix (F3)		(MLRA 136	odplain Soils (F19)
2 cm Muck (A10) (LRI		edox Dark Surface (F6)			Dark Surface (TF12)
Depleted Below Dark	· · · · · · · · · · · · · · · · · · ·	epleted Dark Surface (F	7)	Other (Explain	
Thick Dark Surface (A		edox Depressions (F8)			
Sandy Mucky Mineral	(S1) (LRR N, Irc	n-Manganese Masses	(F12) (LRR N,		
MLRA 147, 148)	(C4)	MLRA 136)	DA 426 422)	3Indicators of h	drophytic vegetation and
Sandy Gleyed Matrix Sandy Redox (S5)		mbric Surface (F13) (ML edmont Floodplain Soils			ogy must be present,
Stripped Matrix (S6)		ed Parent Material (F21)			ed or problematic.
Restrictive Layer (if obse					· · · · · · · · · · · · · · · · · · ·
Туре:					\mathcal{N}
Depth (inches):				Hydric Soil Present?	Yes No
Remarks:			L		
	110	soilp	10 10 1		
	Hieron	Soul p	usen	Y	

WETLAND DETERMINATION DATA FORM -				
Project/Site: XI Supply Heraler City/C	County: Doddridge Sampling Date: 4-28-15			
Applicant/Owner: Downston	State: WV Sampling Point: WD60			
Investigator(s): T. Duncan, J. Gay Section	on, Township, Range:			
Landform (hillsland terrace etc.): hills land landform	inf (conceins convey none): 1 As & Rev Slone (%): (- > 1			
Landionii (imisiope, terrace, etc.).	ief (concave, convex, none): <u>Lon vex.</u> Slope (%): <u>6 - 10</u> - <u>85 ''</u> Long: <u>80° 37° 47.12"</u> Datum: <u>W65</u> 8			
Soil Map Unit Name: Sensabaugh silt loam				
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology naturally problems				
SIMMARY OF FINDINGS - Attach site man showing san	npling point locations, transects, important features, etc.			
A Solution of the Street of th	inputing point locations, transcoto, important roatal co, etc.			
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area			
Hydric Soil Present? Yes No	within a Wetland? Yes No			
Wetland Hydrology Present? Yes No X				
Remarks: Not all three parameters	: Assault			
To all meets	, puser			
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				
High Water Table (A2) Hydrogen Sulfide Oc				
	eres on Living Roots (C3) Moss Trim Lines (B16)			
Water Marks (B1) Presence of Reduce				
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3) Thin Muck Surface (
Algal Mat or Crust (B4) Other (Explain in Re				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2) Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	Microtopographic Relief (D4)			
Aquatic Fauna (B13)	FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):	~			
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	rayings inspections) if available			
besond recorded said (or earn gauge, monitoring well, derial photos, p	revious mapeomories, il uvunusiei			
Remarks:	\sim			
No hydrology p	0000			
p & nyalowyc) p	reserve .			

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

Sampling Point:

22	Absolute Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size:)		Status	Number of Dominant Species
1. Photomo occidentation	·	FACW	That Are OBL, FACW, or FAC: (A)
2. Arar rubrum	10 _	FAC	Total Number of Dominant
3			Species Across All Strata: (B)
4			
			Percent of Dominant Species (A/D)
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	<u> </u>	r I	1
	20% of total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)			FACW species x 2 =
1. Aesculus alabra	15 1	EACU	
2. Rosa multiflora	15 V	FACU	FACU species x 4 =
3. Elacagnus umbellate	15	FUPL	UPL species x 5 =
			Column Totals:(A)(B)
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
8		-	2 - Dominance Test Is >50%
9,			3 - Prevalence index is ≤3.01
27	= Total Cove	er Q	4 - Morphological Adaptations (Provide supporting
	20% of total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 10)	/		Due blancation () university () (and action 1 (Typinin)
1. Dactulis alimerata	_50	FALL	Problematic Hydrophytic Vegetation (Explain)
2. Lamion sursureum	10	UPL	To the second se
3. Allum vihale	10	FACL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Daencus carota	70	UPL	Definitions of Four Vegetation Strata:
5			Definitions of Four Vegetation Strata.
6			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of
7			height.
8			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	er .	of size, and woody plants less than 3,28 ft tall.
50% of total cover:	20% of total cover:	16	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Piot size: 30)			height.
1			
2			
			-
3			-
4			Hydrophytic
5			Vegetation
	= Total Cov		Present? Yes No/
	20% of total cover		-
Remarks: (Include photo numbers here or on a separat	te sheet.)		•

	~ :	
`•		

Sampling Point: ______

Profile Description: (Describe to the	depth needed to docu	ment the indicator o	r confirm	the absence of	indicators.)
Depth <u>Matrix</u>	Redo	ox Features			
(inches) Color (moist) %	Color (moist)	% Type ¹	Loc²	<u>Texture</u>	Remarks
0-4 104R4/3 _				lown_	
4-12 104R4/4				Chay lon	m
12-18+ 104R 5/6				5100 000	1144 / 100000
1				Zhrag S	
	· · · · · · · · · · · · · · · · · · ·				
					
		<u> </u>		-	
¹ Type: C=Concentration, D=Depletion	, RM=Reduced Matrix, N	AS=Masked Sand Gra	ains.	² Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil Indicators:					ors for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surfac				m Muck (A10) (MLRA 147)
Histic Epipedon (A2)		Below Surface (S8) (N			ast Prairie Redox (A16)
Black Histic (A3) Hydrogen Sulfide (A4)		Surface (S9) (MLRA 1 yed Matrix (F2)	47, 148)		(MLRA 147, 148) edmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted M				(MLRA 136, 147)
2 cm Muck (A10) (LRR N)		k Surface (F6)			ry Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A1		ark Surface (F7)			her (Explain in Remarks)
Thick Dark Surface (A12)	Redox Dep	ressions (F8)			
Sandy Mucky Mineral (S1) (LRR I		anese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 1	•		3	
Sandy Gleyed Matrix (S4)		rface (F13) (MLRA 13			cators of hydrophytic vegetation and
Sandy Redox (S5) Stripped Matrix (S6)		Floodplain Soils (F19) t Material (F21) (MLR			land hydrology must be present, ess disturbed or problematic.
Restrictive Layer (if observed):	itea i dieii	t Material (1 21) (MEN	127, 137	,, <u>a,,,</u>	200 distarbed of presidentation
Type:					
Depth (inches):				Hydric Soil	Present? Yes No X
Remarks:				1.yuno com	
	/ n.	- ` ()		, (}
$ \cup \rangle$	hydric	_ Sou	Bre	sent	1
	\mathcal{O}		(

wdog012s_w



Wetland data point wdog012 s_w facing east



Wetland data point wdog012s_w facing south

wdog012_u



Upland data point wwzg002_u facing east



Upland data point wdog012s_u facing south

wdog012s soils



Wetland/upland soils

SUPPLY HEADER PROJECT ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

TL-635

Wetzel County

West Virginia

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Sampling Date: 5-13-15 City/County: Wetzel いい Sampling Point: $\omega\omega$ Z Applicant/Owner: Investigator(s): DDW55T ____ Section, Township, Range:_ Landform (hillslope, terrace, etc.): Flow Olach Local relief (concave, convex, none): CONCIALLE Lat: 39. 4700° Long: 80, 6202° Datum: LUGS Subregion (LRR or MLRA): ___ Soil Map Unit Name: Skidmone Gravely loans _____ NWI classification: PFG No _____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _ , Soil _____, or Hydrology ___ naturally problematic? Are Vegetation (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Yes ____ No ____ Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: All three parameters present 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) Drainage Patterns (B10) _ High Water Table (A2) __ Hydrogen Sulfide Odor (C1) ___ Moss Trim Lines (B16) _ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) ___ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Crayfish Burrows (C8) Sediment Deposits (B2) ✓ Drift Deposits (B3) ___ Thin Muck Surface (C7) ___ Saturation Visible on Aerial Imagery (C9) ___ 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) Field Observations: Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology Present

WWZGOO3 FW Sampling Point:____

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

LOLIATION (I our Strata) - Ose scientific	idines of plants	,	Sampling Fonts
マ ろ		ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover Specie	Status	Number of Dominant Species
1. Acerbarbatum	25 \vee	_ NL	That Are OBL, FACW, or FAC:(A)
	70	, .	
2. Plationus orcidentalis	<u> 40 </u>	FACW	Total Number of Dominant
3. Traxinus pensulvanice	10 V	PACW	Species Across All Strata: (B)
4. Fagus grando Folia	10	FACU	
5. Limodondron fulipitera	10	FACU	Percent of Dominant Species
5. CHADDONALION GILLIPINETA	_ 40	TACU	That Are OBL, FACW, or FAC: (A/B)
6			
7.			Prevalence Index worksheet:
· ·	₹ %		Total % Cover of: Multiply by:
	= Total	over:	
50% of total cover:	 3 9% of total co	over:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)		,	FACW species x 2 =
1. Fragus zyrande holia	10 V	FACU	FAC species x 3 =
- Fragus granders va	- =====================================		FACU species x 4 =
2. Carpines corolingana	- 20 -	FAC	
3. Sombucus coma donsas	<u> 20 </u>	- FACW	UPL species x 5 =
4			Column Totals: (A) (B)
5			Prevalence Index = B/A =
6,			Hydrophytic Vegetation Indicators:
7			
			1 - Rapid Test for Hydrophytic Vegetation
8			X 2 - Dominance Test is >50%
9			3 - Prevalence Index is ≤3.0 ¹
	= Total	Cover	
50% of total cover: 2	20% of total co	over:	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 10)	1070 OI total of		data in Remarks or on a separate sheet)
	1, 3	/	Problematic Hydrophytic Vegetation ¹ (Explain)
1. (Cerex Comosa	- <u>15 </u>	OBL	
2. Sambucus Ciona don sis	_ <i>[</i> D	1 PACW	
3. Arisaema trinhullam	- 75 J	FACW	¹ Indicators of hydric soil and wetland hydrology must
		<i>,</i> •	be present, unless disturbed or problematic.
4. Onoclea Sensibilis	-45 V	FACE	Definitions of Four Vegetation Strata:
5. Boehmeria Gylundrica	15V	/ PACW	
6. Atturium Elix-Fimina	15 V	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
2 7) 7			more in diameter at breast height (DBH), regardless of
7. Imputers Capansis	- 45	EACW	height.
8			Carling (Charle Mondy plants evoluting vines inco
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.
10			in tan.
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: <u>5</u>	20% of total c	0Ver: 77	
3/	2070 or total c	over	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)			height.
1			
2. n97702			
700			
3			
4			Hydrophytic
5			Vametation \
	- Tota	l Cover	Present? Yes No No
500/ -f babal			7
50% of total cover:		:over:	
Remarks: (Include photo numbers here or on a separat	e sheet.)		

SOIL

Sampling Point:

Profile Description: (Describe to the dep	th needed to document the indicator or o	onfirm the absence of indicators.)	I
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹	oc ² <u>Texture</u> <u>Remarks</u>	
0-10 104R 4/2	104R416 710 L 1	n Loam	
10-16+ LOYR 4/2	104R 4/8 720 C	n sprodlauloan	1
D 10 11 11 11 11 11 11 11 11 11 11 11 11			
17 O Community D Darleton DM	Badara Maria MC Maria Montage	21 Alexandra DI Desertining NA NA Admin	
¹ Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators:	=Reduced Matrix, MS=Masked Sand Grain	 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydronical 	ic Soils ³
-	Dank Conference (C7)	-	
Histosol (A1) Histic Epipedon (A2)	Dark Surface (S7)Polyvalue Below Surface (S8) (ML)	2 cm Muck (A10) (MLRA 147 A 147, 148) Coast Prairie Redox (A16)	,
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147		1
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F	19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (Γ F 12)
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) (LF	RN,	
MLRA 147, 148)	MLRA 136)	30 6	- 45
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136,		
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (NRed Parent Material (F21) (MLRA		
Stripped Matrix (S6)	Red Faterit Material (121) (MERA	unless disturbed of problemat	
Restrictive Layer (if observed):	Red Parent Material (121) (MERA	unless distribed of problemat	
Restrictive Layer (if observed): Type:	Red Falent Material (121) (MERA	N/	
Restrictive Layer (if observed): Type: Depth (inches):	Red Falent Material (121) (MERA	Hydric Soil Present? Yes	No
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	and present	N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		N/	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	
Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Hydric Soil Present? Yes	

wwzg003f_w



Wetland data point wwzg003f_w facing east



Wetland data point wwzg003f_w facing south

WETLAND DETERMINATION DATA FOR	RM – Eastern Mountains and Piedmont Region
Project/Site: DTI Supply Lendor C	City/County: 12etze Sampling Date: 13-15
	State: WV Sampling Point: いんてん
	Section, Township, Range:
	al relief (concave, convex, none): Lonuex Slope (%): 35+
Subregion (LRR or MLRA): P Lat: 39, 470	4° Long: 80, 6203° Datum: N& 8
• • • • • • • • • • • • • • • • • • • •	molex NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of yea	
Are Vegetation, Soil, or Hydrology significantly of	~
Are Vegetation, Soil, or Hydrology naturally prol	
	· · · · ·
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No No No Remarks:	Is the Sampled Area within a Wetland? Yes No
NOW THE PARTY	
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 Pla	
High Water Table (A2) Hydrogen Sulfice Ovidized Philader	
Saturation (A3) Oxidized Rhizos Presence of Re	spheres on Living Roots (C3) Moss Trim Lines (B16) duced Iron (C4) Dry-Season Water Table (C2)
·	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surfa	
Algal Mat or Crust (B4) Other (Explain i	
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 _X Depth (inches) Saturation Present? Yes No _X Depth (inches)	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	0
No hydrology	present
:	

Sampling Point:_____

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

	Absolute Domi	nant Indicator	Dominance Test worksheet:
	% Cover Spec		Number of Dominant Species
1. Liver dandron fulipe dera	20 i	EACU	That Are OBL, FACW, or FAC: (A)
2. Corup ovata	15	FACU	0.
3. Fregues grande Adia	20 >	FACU	Total Number of Dominant Species Across All Strata: (B)
4. Brieran ration	75 J	FACU	Species Across All Strata.
	15	FACU	Percent of Dominant Species
5. William alba.	1 9 _	- FACU	That Are OBL, FACW, or FAC: (A/B)
6,			Prevalence Index worksheet:
7	<i>→</i>		Total % Cover of: Multiply by:
///	80 = Tota	al Cover	OBL species x 1 =
50% of total cover: 40	_ 20% of total of	cover:	·
Sapling/Shrub Stratum (Plot size: 30)	10	/ -	FACW species x 2 =
1. Cornus florida	<u> 10</u> -	_ FACU	FAC species x 3 =
	20 -	/ FAW	FACU species x 4 =
3. Acer borbation	<u> </u>	V NL	UPL species x 5 =
4,			Column Totals: (A) (B)
5			Decidence Index D/A
6			Prevalence Index = B/A =
7			Hydrophytic Vegetation Indicators:
8			1 - Rapid Test for Hydrophytic Vegetation
9,			2 · Dominance Test is >50%
V	50 = Tota	ol Cover	3 - Prevalence Index is ≤3.01
50% of total cover: 25	20% of total		4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:	_ 2070 01 total	COVCI	data in Remarks or on a separate sheet)
1. Palystichum as rostordos	70 ,	/ FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Viole observan canadonsis			
3. Calium boreale.	-12	E FACU	¹ Indicators of hydric soil and wetland hydrology must
	-12	J FAC	be present, unless disturbed or problematic.
4. Harella corditalia	/	<u> </u>	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			Herb – All herbaceous (non-woody) plants, regardless
	60 = Tot	tal Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30			
Woody Vine Stratum (Plot size: 30)			Woody vine – All woody vines greater than 3.28 ft in height.
1			nogh
2			
3.			
			
4			Hydrophytic
5,			Vegetation Present? Yes No
F00/ 1/ 1		tal Cover	Present? Yes No
50% of total cover:		cover:	
Remarks: (Include photo numbers here or on a separate si	heet.)		

WWZ6003 Sampling Point:

SOIL

Sampling	Point:	

Profile Description: (Describe to the depth n	eeded to document the ir	ndicator or con	irm the ab	sence	of indicators.)
Depth Matrix	Redox Features				
	Color (moist) %	Type¹ Loc²		ture_	Remarks
			_ 5p	nde	lum
<u>3-12 (07R414</u>			<u> </u>	Am	
12-18+ 104R5/4			10	Am	
					
17 O O			2,		D lining M. Mahin
¹ Type: C=Concentration, D=Depletion, RM=Re Hydric Soil Indicators:	duced Matrix, MS=Masked	Sand Grains.	Loca	tion: P	L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)				cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surfa	ce (S8) (MLRA	147, 148)		coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9)			_ ~	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (P	riedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)				(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F				Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark SurfaceRedox Depressions (F			(Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	redox depressions (r Iron-Manganese Mass		I_		
MLRA 147, 148)	MLRA 136)	C5 (1 12) (E1(1)	r		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13)	(MLRA 136, 122)	³ Inc	licators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain S				etland hydrology must be present,
Stripped Matrix (S6)	Red Parent Material (F	21) (MLRA 127	147)	ur	less disturbed or problematic.
Restrictive Layer (if observed):					
Type:	-				×
Depth (inches):			Hyd	Iric Soi	I Present? Yes No
Remarks:	` ()	4	<i>\</i>		
No hudriz	soil p	resen	$\not \bowtie$		•
8	1				
					•
1					

wwzg003_u



Upland data point wwzg003_u facing east



Upland data point wwzg003_u facing south

wwzg003f soils



Wetland/upland soils

\ -	N DATA FORM – Eastern Mountai		•
roject/Site: Supply Hender	City/County: WEYZE	Sampli	ing Date: 7-23-1
pplicant/Owner: Dominion		State: Sam	pling Point: HOZ
vestigator(s): DDWEST	Section, Township, Range:		
andform (hillslope, terrace, etc.): Depuis	C 1 A 1	ne): concrue	Slope (%):
ubregion (LRR or MLRA): Lat: _	39.4769 Long: 80	1.6045	Datum: WSS 85
		NWI classification:	
re climatic / hydrologic conditions on the site typical for			
re Vegetation, Soil, or Hydrology			Yes X No
re Vegetation, Soil, or Hydrology		explain any answers in Re	<u>. </u>
SUMMARY OF FINDINGS – Attach site ma	ap snowing sampling point locati	ons, transects, impo	ortant realures, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	~ /	
Hydric Soil Present? Yes	No within a Wetland?	Yes No	·
Wetland Hydrology Present? Yes	. No		
Remarks:	О		
Accimile parameter	3 present		0 . 1
All thee parameter Depressional her	baceous welland a	referent to ro	nd + Stream
IYDROLOGY			
Wetland Hydrology Indicators:		· ·	ninimum of two required)
Primary Indicators (minimum of one is required; check		Surface Soil Cracks	
	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Drainage Patterns	
	Oxidized Rhizospheres on Living Roots (C3)		
	Presence of Reduced Iron (C4)	Dry-Season Water	
	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible of	on Aerial Imagery (C9)
	Other (Explain in Remarks)	Stunted or Stresse	
Iron Deposits (B5)		Geomorphic Position	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (I	
Water-Stained Leaves (B9)		Microtopographic F	
Aquatic Fauna (B13) Field Observations:		FAC-Neutral Test	(U3)
	Depth (inches): Y4		
	Depth (inches): Sur Ence		~/
Saturation Present? Yes No	Depth (inches): Wetland	d Hydrology Present?	yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring)	well, aeriai photos, previous inspections), if a	ivaliable:	
Remarks:			
, ,	. 0 1/	(1.	(7
Strous dep	ressional wetless	co area / r	nanipulation
0 - 0 4		$\overline{}$	
de organist te	ressional wetless	\checkmark	
arpacious)			
:			
	•		

EGETATION (Four Strata) - 05e Scientific	c names or plants.	Sampling Folice
フハ	Absolute Dominant Indicato	- 1
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
l,		That Are OBL, FACW, or FAC: (A)
		-
. 7		Total Number of Dominant
		Species Across All Strata: (B)
		- December of December of Constitution
		Percent of Dominant Species That Are OBL, FACW, or FAC:
		- Mat Ale Obl., PACW, OI PAC. (AIB)
5		Prevalence Index worksheet:
7. <u></u>		
	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30		FACW species x 2 =
		FAC species x 3 =
		 !
2		FACU species x 4 =
3 515		UPL species x 5 =
A 1/3//		Column Totals:(A)(B)
. 19-		
		Prevalence Index = B/A =
3,		Hydrophytic Vegetation Indicators:
7		- Rapid Test for Hydrophytic Vegetation
8		
		—
9,		3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	4 - Morphological Adaptations (Provide supporting
//\	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)		· ·
1. Coopenie a corrección	/	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Impations componers 6.		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7		height.
8910		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11	Total Cover	Herb - All herbaceous (non-woody) plants, regardless
	= Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover:) Woody Vine Stratum (Plot size:)	20% of total cover: 20	Woody vine - All woody vines greater than 3.28 ft in height.
0		
2		
3		
4. 77		\
		Hydrophytic Vegetation
V	= Total Cover	Present? Yes No No
500/ -51-1-1-1-2		
50% of total cover;	20% of total cover:	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)	
	,	

Depth	Matrix		Redo	ox Features			n the absence of indica		-
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
0-2	104R4/4		BYR 211	7/8	<u> </u>	M	CLAYLOAM		
2-8	104R 413		10YR 2/1	220		m	CLAY LURIN	<u> </u>	
8-14	104R 4/2		WYR 211	720	(CLAYLON		
			<i>32-70</i>	· •					
								, -, -, -, -, -, -, -, -, -, -, -, -,	
						·			
1Tuno: 0. 0	Concentration D. Dan	lation DAA	Dade and Mande A	40			21 i DI D I	ining AA AAshir	
Hydric Soil	Concentration, D=Dep	ielion, Rivi	=Reduced Matrix, N	vi5=iviasked	Sanu Gi	ains,	² Location: PL=Pore L	Problematic Hydric Soils	3,
Histoso	•		Dark Surfac	ce (S7)				((A10) (MLRA 147)	
	Epipedon (A2)		Polyvalue B		ce (S8) (I	VILRA 147		rie Redox (A16)	
Black F	listic (A3)		Thin Dark S	Surface (S9)	(MLRA		(MLRA	147, 148)	
Hydrog	en Sulfide (A4)		Loamy Gle		F2)			Floodplain Soils (F19)	
	ed Layers (A5) luck (A10) (LRR N)		Depleted M		-0)			136, 147) low Dark Surface (TF12)	
	ed Below Dark Surfac	e (A11)	Redox Dari					plain in Remarks)	
	Dark Surface (A12)	. ()	Redox Dep				•	,	
	Mucky Mineral (S1) (_RR N,	Iron-Manga		es (F12)	(LRR N,			
(RA 147, 148)		MLRA 1	•	(a) = 0 d		31 1/ -1	e ta colonia tradiciona and a stancia	,
	Gleyed Matrix (S4) Redox (S5)			rface (F13) Floodplain S				f hydrophytic vegetation an drology must be present,	a
	ed Matrix (S6)			t Material (F				urbed or problematic.	
	Layer (if observed)	:		· material (i	-17 (1		
Туре:									
Depth (i	nches):						Hydric Soil Presen	t? Yes No	
Remarks:									
			•	1			Λ	Λ	
			I	THE E			7)	- -	
				ZKI	8	200	A Arrow		
			(J			V		1
									İ
									İ

wwzh021e_w



Wetland data point wwzh021e_w facing east



Wetland data point wwzh021e_w facing south

WETLAND DETERMINATION DATA FORM	- Eastern Mountains and Piedmont Region
Project/Site: Supply Header City/C	County: Detzel Sampling Date: 7-23-15
Applicant/Owner: Dominion	State: WV Sampling Point: WWZH
	on, Township, Range:
	ief (concave, convex, none): CONCEX Slope (%): 30
Latitudini (missiope, terrace, etc.): Latitus (1730 Local reli	Long: 80. 6047 Datum: W65 8
	A
Soil Map Unit Name: GIPPIN Peetrody com	~ ^
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
Solvinar or Findings - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Yes	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No Remarks:	
Not all thee parameter	- 011-0 A
Not all the parameter	3 present
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	
High Water Table (A2) Hydrogen Sulfide Oc	\
1	res on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduce	
	ion in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface	
Algal Mat or Crust (B4) Other (Explain in Re	emarks) 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 X Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	0
K) a hudeale	zy present
100 100000	87 12000
	•

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

Sampling Point: ________ U

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1. Quereus montana	25 JUPL	That Are OBL, FACW, or FAC:(A)
2. Limo Sendon telipi dera	30 / FACU	
3 Fague grandifolia	77	Total Number of Dominant Species Across All Strata: (B)
A STATE OF S	30 U FACU	Species Across All Strata.
4		Percent of Dominant Species 12
5		That Are OBL, FACW, or FAC: L L (A/B)
6		Prevalence Index worksheet:
7	- 	Total % Cover of: Multiply by:
$C_{I'}$	Total Cover	OBL species x 1 =
1 1	2.5 20% of total cover: 17	1
Sapling/Shrub Stratum (Plot size:		FACW species x 2 =
1 fagus grandifolia		FAC species x 3 =
2. Acr barpatum	10 V PAU	FACU species x 4 =
3. Rosa multiflora		UPL species x 5 =
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9,		3 - Prevalence Index is ≤3.0 ¹
(·-	= Total Cover	4 - Morphological Adaptations (Provide supporting
	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 10)	15 FACE	Problematic Hydrophytic Vegetation¹ (Explain)
1. Pohystrchum acrostordes		1
2. Rylms leurosermis	- 10 - UPL	¹ Indicators of hydric soil and wetland hydrology must
3. Microstering vininea	- 70 V Fac	be present, unless disturbed or problematic.
4. Kubus allegheneuss	10 EAC	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		Herb - All herbaceous (non-woody) plants, regardless
\sim	55 = Total Cover	of size, and woody plants less than 3.28 ft tall.
	7.5 20% of total cover:	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30)		height.
1,		-
2		-
3. 101		-
4		Hydrophytic (/
5		_ Vegetation
707	= Total Cover	Present? Yes No No
	20% of total cover:	
Remarks: (Include photo numbers here or on a separa	ate sneet.)	
	,	

^	\sim	F	
		м	

Profile Desc	ription: (Describe to	the depth r				or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	 _	Redox Color (moist)	x Features	Type ¹	Loc ²	Texture	Remarks
111CHES)	104R 4/4		COIOI (IIIOISI)	%	Type	LOC	Lown	
1616							LONIN	
5-171	104R5/6						SCL_	
	•							
							·_ ···	
		 -						
¹ Type: C=C	oncentration, D=Deple	tion, RM=R	educed Matrix, M	S=Masked	d Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil						<u> </u>	Indic	cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ice (S8) (N	/ILRA 147		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark St				· · · —	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley		(F2)		******	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	uck (A10) (LRR N)	(444)	Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12) Mucky Mineral (S1) (L I	IN GC	Redox Depr			/I DD 8I		
	A 147, 148)	XIX IV,	Iron-Mangar MLRA 13		SES (F 12)	(LKK N,		
	Gleyed Matrix (S4)		Umbric Surf		(MLRA 1	36, 122)	3 ir	dicators of hydrophytic vegetation and
Sandy i			Piedmont FI					vetland hydrology must be present,
	d Matrix (S6)		Red Parent	•				inless disturbed or problematic.
Restrictive	Layer (if observed):						T	
Туре:			·				ļ	\sim
Depth (ir	nches);						Hydric Sc	oil Present? Yes No
Remarks:								
•								
				1 1	A 15	1 0.		thought
					$\supset \bowtie$	401	15 70	w preserva
				,		O		•

wwzh021_u



Upland data point wwzh021_u facing east



Upland data point wwzh021_u facing south

wwzh021 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Eas	
Project/Site: Supply Lewor City/County:	Wetzel Sampling Date: 7-23-15
Applicant/Owner: Dominum	State: Sampling Point: Sampling Point: State
Investigator(s): Section, Toy	vnship, Range:
Landform (hillslope, terrace, etc.): Depression Local relief (cor	
Subregion (LRR or MLRA): P Lat: 39.4760	
Subjection (LRR of MERA):	Long: Do Go Datum.
Soil Map Unit Name: Gilpin Penbody Complex	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling	g point locations, transects, important features, etc.
2.4	
Hydrophytic Vegetation Present? Yes No Is th	e Sampled Area
Hydric Soil Present? Yes No with Wetland Hydrology Present? Yes No	in a Wetland? Yes No No
Remarks:	
All three parameters present.	
No.	
Depressional area adjacent to	Konel + strong
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 (C	
Saturation (A3) Oxidized Rhizospheres on	
Water Marks (B1) Water Marks (B1) Presence of Reduced Iron	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Recent Iron Reduction in T	
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) Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches): 12	10
Water Table Present? Yes No Depth (inches): Surface	200
Saturation Present? Yes No Depth (inches): Save	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	s inspections), if available:
Remarks:	
1 1	
Hydrology pres	ien
	•
	1
	\cdot

7012H025 Sampling Poin VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover x 1 = OBL species 20% of total cover: 50% of total cover: FACW species ____ x 2 = ___ FAC species ____ x3 = ___ FACU species _____ x 4 = ____ x 5 = ____ UPL species ____ (A) ___ Column Totals: ____ Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% _ 3 - Prevalence Index is ≤3.01 = Total Cover 4 - Morphological Adaptations (Provide supporting 50% of total cover: 7.5 20% of total cover: data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) FAC 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. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. = Total Cover 50% of total cover: 20% of total cover:_ Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? _ = Total Cover 50% of total cover: 20% of total cover:_ Remarks: (Include photo numbers here or on a separate sheet.)

Sampling Point: _____W

Depth (inches) Matrix (inches) Redox Features (inches) Loc² Texture Remarks 0-5 LOYR 4/2 IOYR 4/6 72 C M LOW LOW 5-14ft IOYR 4/2 IOYR 5/6 720 C M LOW	
0-5 LOYR4/2 104R4/6 >2 C W LOBON	
	- [
5-14 184R4/72 184R 5/6 720 CM LOIAM	-
	_
	-
	-
	_
	}
	_
	-
	-
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)	
Flighted Epipedon (A2)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19)	
Stratified Layers (A5) Qepleted 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) Thick Dark Surface (A12) Depleted Dark Surface (F7) Cher (Explain in Remarks) 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	
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:	
Remarks:	
Hydre soil present	

wwzh022e_w



Wetland data point wwzh022e_w facing east



Wetland data point wwzh022e_w facing south

WETLAND DETERMINATION					2 10
Project/Site: Supply Werder	City/County:	Motrell	<u> </u>	ampling Date:	13- 18
Applicant/Owner:		s	tate: WV	Sampling Point:	7140 CT
nvestigator(s): DDWEST	Section, Townsh	ì	,		
andform (hillslope, terrace, etc.): 4illslop	Local relief (concav	e, convex, none):	Convex	Siope (%	15
Subregion (LRR or MLRA): Lat:	39.4760	_ Long: _ & D	.6005	Datum: し	16584
Soil Map Unit Name: <u>Gilpin Penbod</u>	1 Complex		NWI classificati	ion: Won	5
Are climatic / hydrologic conditions on the site typical for	- 1	l l			
Are Vegetation, Soil, or Hydrology	•		•	esent? Yes X	No
Are Vegetation, Soil, or Hydrology	•		lain any answers		
• • • • • • • • • • • • • • • • • • • •	• •		•	•	roc oto
SUMMARY OF FINDINGS – Attach site ma	h anoming sampling b	oint location	s, transects,	important reatu	165, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	is the sa	ampled Area Wetland?	Yes	No X	
Not all three parame	iters present	0-			
HYDROLOGY					
Wetland Hydrology Indicators:		S	econdary Indicate	ors (minimum of two	required)
Primary Indicators (minimum of one is required; check			Surface Soil C		(==)
· ·	True Aquatic Plants (B14)	-		etated Concave Surf	ace (B8)
	⊣ydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi	ng Boots (O2)	Drainage Patt Moss Trim Lir		}
	Presence of Reduced Iron (C4			Vater Table (C2)	
l l	Recent Iron Reduction in Tilled		Crayfish Burre		
· ·	Thin Muck Surface (C7)		Saturation Vis	sible on Aerial Image	ry (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	-	Stunted or St	ressed Plants (D1)	
Iron Deposits (B5)			Geomorphic I		
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui		
Water-Stained Leaves (B9)				phic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)	
Field Observations: Surface Water Present? Yes No	5 1 (1				
Surface Water Present? Yes No Water Table Present? Yes No	Depth (inches):				
Saturation Present? Yes No	Depth (inches):	Mosland H	ydrology Presen	t? Vac i	\times
(includes capillary fringe)				1 1031	¥0
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous ins	spections), if avai	lable:		
Remarks:				^	
	1 0 1		الــ		
No	hydroloa	ry D	reser	V	
	Ú,	· ·			
		•			

Sampling Point 201702 VEGETATION (Four Strata) - Use scientific names of plants. Dominance Test worksheet: Dominant Indicator Absolute Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) FAU FAC Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover x1= OBL species 20% of total cover: 50% of total cover: FACW species x 2 = ___ FAC species х 3 ≔ ___ FACU species x 4 = ____ UPL species ____ x5 ≈ ____ Column Totals: ___ (A) __ Prevalence Index = B/A = __ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 · Prevalence Index is ≤3.0¹ = Total Cover < 4 - Morphological Adaptations (Provide supporting % of total cover: 20% of total cover: data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 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) 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. = Total Cover 20% of total cover: Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: height. Hydrophytic Vegetation Present? ≃ Total Cover 50% of total cover: 20% of total cover: Remarks: (Include photo numbers here or on a separate sheet.)

ampling Point:

	Matrix Of Majort	Redox Feat	tures	Tenhone	Domonico
ches)	Color (moist) %		S Type Loc2	1 exture	Remarks
-6	1.54R 416				
-14	754R516				
		-	~ ~~~		
	Manager Company Compan				
roe: C=C	oncentration, D=Depletion, RN	Λ=Reduced Matrix MS=Ma	asked Sand Grains.	²l ocation:	PL=Pore Lining, M=Matrix.
dric Soil	Indicators:		JONES CANA CHARLOT		cators for Problematic Hydric Soils ³ :
Histosol	I (A1)	Dark Surface (S7))	-	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Surface (S8) (MLRA 147	, 148)	Coast Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		e (S9) (MLRA 147, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)	Loamy Gleyed Ma Depleted Matrix ((MLRA 136, 147)
	uck (A10) (LRR N)	Redox Dark Surfa			Very Shallow Dark Surface (TF12)
	ed Below Dark Surface (A11)	Depleted Dark St		-	Other (Explain in Remarks)
	Park Surface (A12)	Redox Depressio			
	Mucky Mineral (S1) (LRR N, A 147, 148)	iron-ivianganese i	Masses (F12) (LRR N,		
	Gleyed Matrix (S4)	•	F13) (MLRA 136, 122)	31	ndicators of hydrophytic vegetation and
	Redox (S5)		lain Soils (F19) (MLRA 1	48)	wetland hydrology must be present,
_ Stripped	d Matrix (S6)	Red Parent Mate	riai (F21) (MLRA 127, 1 4	17)	unless disturbed or problematic.
	Layer (if observed):				
Туре:					V 5 V 11 X
Type: Depth (ir	•			Hydric S	oil Present? Yes No
Type: Depth (ir				Hydric S	oil Present? Yes No X
Type:			o 6 .10		
Type: Depth (ir			o hydnz		
Type: Depth (ir			o hydnz		oil Present? YesNoX_
Type: Depth (ir			o hydne		
Type: Depth (ir			o hydnz		
Type: Depth (ir			o hydnz		
Type: Depth (ir			o hydnz		
Type: Depth (ir			o hydnz		
Type: Depth (ir	nches);		o hydnz		
Type: Depth (ir	nches);		o hydnz		
Type: Depth (ir	nches);				
Type: Depth (ir	nches);				
Type: Depth (ir	nches);				
Type: Depth (ir	nches);			soil	
Type: Depth (ir	nches);				
Type: Depth (ir	nches);			soil	
Type: Depth (ir	nches);			soil	
Type: Depth (ir	nches);			soil	
Type: Depth (ir	nches);			soil	

wwzh022_u



Upland data point wwzh022_u facing east



Upland data point wwzh022_u facing south

wwzh022 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Eastern Mo	untains and Piedmont Region
Project/Site: Supply Lendon City/County: 618	57786 Sampling Date: 7-22-12
Applicant/Owner: Dominion	State: WV Sampling Point WZ HOZE
Investigator(s): Section, Township, Ra	
A .	vex, none): (
Subregion (LRR or MLRA): P Lat: 39.4867 Lor	1 -
Soil Map Unit Name: Gilpin Perbody Complex	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	-
	"Normal Circumstances" present? Yes No
	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point	logations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No Is the Sevente	
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	
Remarks: OPEN WETLAND AREA WITH IN COMPAND OLD	
	·
FOREST ROAD	
All three parameters present	
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) High Water Table (A2) — Hydrogen Sulfide Odor (C1)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Ro	
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils	
★ Drift Deposits (B3) Thin Muck Surface (C7) Other (Figure in its Deposits)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Saturation Present? Yes No Depth (inches): Surface N	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	
$\mathcal{M} \subset \mathcal{M}$	
Hydrology present	•
0 01	
·	

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

7 2	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species
Platanus occidentalis	10 V FACW	That Are OBL, FACW, or FAC:(A)
)		Total Number of Dominant
3.	}	Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		That Ale OBL, FACW, of FAC. [A/B]
,	Company of the Compan	Prevalence Index worksheet:
	75	Total % Cover of: Multiply by:
50% of total cover:	= Total Cover 20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)	20% of total cover:	FACW species x 2 =
	5 VI Front	FAC species x 3 =
Ulmus mmericana	5 FACE	/ FACU species x 4 =
Platomis occidentalis		UPL species x 5 =
3	1	Column Totals: (A) (B)
4		Constitution
5. <u> </u>		Prevalence Index = B/A =
6. 7		Hydrophytic Vegetation Indicators:
7,		1 - Rapid Test for Hydrophytic Vegetation
8,		2 - Dominance Test is >50%
9,	10 = Total Cover	3 - Prevalence index is ≤3.01
50% of total cover:		4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 10)	/	data in Remarks or on a separate sheet)
1. Bochmance cylmoreca	25 J FROM	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Impation resonnics	20 J FACW	_
3. Atheriem to lix Jimina	IO FAC.	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Micros legin vimines	IS / FAC	·
5. Loergie unanco	TO V FACIN	Definitions of Four Vegetation Strata:
6. CP Robert		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		
	= Total Cover	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of total cover: 18	
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3.28 ft in height.
1		Treight.
2.		
3. 77)		
4		
5,		Hydrophytic Vegetation
*'	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (include photo numbers here or on a separate		
· '	,	•

Sampling Point: W

Profile Desc	ription: (Describe t	o the dept	h needed to docum	ent the in	dicator	or confirm	the absence of i	ndicators.)
Depth	Matrix			K Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6	104R 4/1		104R 4/4	22		m	LOAM	
6-141	109R 5/1		104R 4/16	75	(M	SCL	·
			114			#		
					H			
							_	
W		-			·			
				1				
1								
1TV00: C-C	oncentration, D=Dep	lation DM	-Dodused Metrix M			roine	² i coation: DI -	Poro Lining M-Matrix
Hydric Soil	Indicators:	iedon, Rivi	=Reduced Matrix, M	S=IVIasket	sanu G	rains.		Pore Lining, M=Matrix. rs for Problematic Hydric Solls ³ :
Histosol			Dark Surface	a (S7)				n Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ice (S8) (MLRA 147		est Prairie Redox (A16)
1 —	istic (A3)		Thin Dark Si					MLRA 147, 148)
Hydrog	en Sulfide (A4)		Loamy Gley				Pied	dmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark					y Shallow Dark Surface (TF12)
	ed Below Dark Surfac	e (A11)	Depleted Da				Oth	er (Explain in Remarks)
	Park Surface (A12) Mucky Mineral (S1) (I DD N	Redox Depr			(I DD N		
	A 147, 148)	LIKIK IV,	iron-Mangar MLRA 13		es (F12)	(LKK N,		
1	Gleyed Matrix (S4)		Umbric Surf	-	(MLRA	136, 122)	3Indica	ators of hydrophytic vegetation and
Sandy			Piedmont Fi					and hydrology must be present,
	d Matrix (S6)		Red Parent					ss disturbed or problematic.
Restrictive	Layer (if observed)	:						
Type:								N /
Depth (in	nches);						Hydric Soil P	resent? Yes No
Remarks:					·····		_1	
			Noal)۔ ک) m	ati	× W/	in 10 inches
			O		× * • •			•
			of so	s. Lie) E	eur	trace	
			\mathcal{D}_{1}	•		` _	•	A
			Hy	dr	< S	Vo	pres	on
			0					
}								

wwzh020e_w



Wetland data point wwzh020e_w facing east



Wetland data point wwzh020e_w facing south

WETLAND DETERMINATION DATA FORM - Eastern Mou	ntains and Piedmont Region
Project/Site: Supply Hewas City/County: 120	fze Sampling Date: 7-22-(5
Applicant/Owner: Daminion	State: WW Sampling Point: WWZHO2
Investigator(s): D(W \$ 5 T Section, Township, Range	ne:
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, conve	ov none): (AD) WEX Sione (%): 10 = >
Subregion (LRR or MLRA): P Lat: 39,4868 Long	80.6134 Datum: 264 84
	,
	,
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 "P	
	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point to	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No Sils the Sampled within a Wetland Wetland Hydrology Present? No Sils the Sampled within a Wetland Hydrology Present? No Sils the Sampled within a Wetland Hydrology Present?	Yes No
HYDROLOGY Wetland Hydrology Indicators:	Coordon Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Root	
	Dry-Season Water Table (C2)
Sediment Deposits (B2) Prift Deposits (B3) Recent iron Reduction in Tilled Soils (C7) Thin Muck Surface (C7)	C6) Crayfish Burrows (C8) 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):	
	etland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Remarks:	
The hand or local property	\
No regording	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection Remarks: Wo hydrology present Obuvous rise in topograph Welland.	from adjacent
)
wethend.	

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

Sampling Point: U

2027/11/01/ (1 Odil Odilata)	Absolute Dominant Indicator	Dominance Test worksheet:
(ree Stratum (Plot size: 50,)	% Cover Species? Status	Number of Dominant Species
Lingabelon fulin era	25 / FACU	That Are OBL, FACW, or FAC: (A)
Platonus occidentalis	25 / FACW	
Facus com difolia	15 V FACU	Total Number of Dominant Species Across All Strata: (B)
4		Species Across Air Strata.
		Percent of Dominant Species 50
5		That Are OBL, FACW, or FAC: (A/B)
6,		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
A	65 = Total Cover	
	20% of total cover:	
Sapling/Shrub Stratum (Plot size:	20 /-	
Lindera benzoin	20 J PAC	FAC species $50 \times 3 = 150$
2 Carpinus caroliniana	10 V PAC	FACU species $\frac{75}{4} \times 4 = \frac{300}{100}$
3. Fregue grandifolia	15 / FACU	UPL species x 5 =
4.		Column Totals: 150 (A) 500 (B)
5		Prevalence Index = B/A = 3.33
6,		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8,		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.0¹
	Total Cover	4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:22	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot sizer D)	0 12	Problematic Hydrophytic Vegetation (Explain)
1. Polystichum acrostor	des W Y FACI	2 - Problematic Hydrophytic Vegetation (Explain)
2. 12. Ja Conadons	15 15 V FAC	1. W
3. Dioscorpa Villosia	5 PAC	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4,		- Definitions of Four Vegetation Strata:
5		
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7		height.
8		
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	40 - Total Cover	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 7	D 20% of total cover:	5
Woody Vine Stratum (Plot size:	2070 of total cover.	Woody vine - All woody vines greater than 3.28 ft in
1 _		height.
1		
2. NONE		-
3.—————————————————————————————————————		_
4.		- Hydrophytic
5,		Vegetation
	= Total Cover	Present? Yes No 🔨
	20% of total cover:	
Remarks: (Include photo numbers here or on a separ	ate sheet.)	
N harm and a		V 0
NOT MORE	THAN 50% FAC	or weller
& Pontalana	Index above	⋜
+ Howarene	a moral work	$\boldsymbol{\omega}$
1		

SOIL

Sampling Point:

	cription: (Describe to	the depth ne				r confirm t	the absen	ce of indic	ators.)		1
Depth (inches)	<u>Matrix</u> Color (moist)	% C	Redox olor (moist)	<u>Features</u> %	Туре	Loc ²	Texture		Rem	arko	
~-?										diks	
5 2	104R5/4							PYLO	4VII		
5-7	LOYR4/6						<u> 5</u> C	<u> </u>			
1-14	404R516			-	·		_5(<u></u>	·		
	•						_				
	* ************************************			•							
عباجا لحد بمنصوبات	- 					The The State of t	······································				
				10L							
											
	,										
	Concentration, D=Depl	etion, RM=Red	luced Matrix, M	S=Masked	d Sand Gr	ains.	² Location	: PL=Pore	Lining, M=N	∕latrix.	
Hydric So	il Indicators:						ļn	dicators fo	or Problema	atic Hydric	Soils³:
	ol (A1)		_ Dark Surface						ick (A10) (M		
	Epipedon (A2)	•	Polyvalue B				148)		airie Redox		
	Histic (A3)	-	Thin Dark S			147, 148)			A 147, 148)		
	gen Sulfide (A4) ied Layers (A5)	-	Loamy Gley		(F2)		-	_	nt Floodplair		
	Muck (A10) (LRR N)	_	Depleted Ma Redox Dark		ER)				A 136, 147) allow Dark S		12)
	ted Below Dark Surface		Nedox Dark Depleted Da					Other (E	xplain in Re	emarks)	12)
	Dark Surface (A12)	` ' -	Redox Depr				-	`			
	y Mucky Mineral (S1) (L	.RR N,	Iron-Mangai	nese Mass	ses (F12)	(LRR N,					
	RA 147, 148)		MLRA 1								
Sand	y Gleyed Matrix (S4)		Umbric Surf				. = \		of hydroph		
	y Redox (S5)	-	Piedmont F						nydrology m		ent,
	ed Matrix (S6) ve Layer (if observed):		Red Parent	Materiai (i	FZI) (IVILI	KA 127, 14	<u>/)</u>	uniess at	sturbed or p	TODIETHALIC.	
	•										
	(in als - a).						1	O-U Drass		B.1	. X
Debru	(inches):						Hyaric	Soli Prese	ent? Yes		0 /
Remarks:	•								٨		
					0	/	A .		J be		- t
				<i>\(\righta\)</i>	$\cup_{\mathcal{O}}$	New	Lun	ල වැ	JUK (1	sses	Jens,
				,		<u> </u>	ン・		1		
						•					-
•											
								7			
í											
ı											

wwzh020_u



Upland data point wwzh020_u facing east



Upland data point wwzh020_u facing south

wwzh020 soils



Wetland/upland soils

WEILAND DETERMINATION DATA FORM -	
Project/Site: DT Supply bonder City/C	county: Wetzel Sampling Date: 5-13-18
Applicant/Owner: Deminion	State: WV Sampling Point: WWZGO
Investigator(s): DO WEST Section	on, Township, Range:
O(1 - C) = C	ief (concave, convex, none): CDNC (AVC Slope (%):
	Long: <u>80, 6066</u> Datum: <u>WG</u> S &
Soil Map Unit Name: Skidynore availle loam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
	npling point locations, transects, important features, etc.
^	pining point research of a university important reactines, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Yes No
Remarks: 1.00 Hans Transfer	
ACOL three parameters	present
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	
	res on Living Roots (C3) Moss Trim Lines (B16)
✓ Water Marks (B1) ✓ Presence of Reduce	d Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction	on in Tilled Soils (C6) Crayfish Burrows (C8)
Z Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Re	
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):	(11)
Water Table Present? Yes No Depth (inches):(
Saturation Present? Yes No Depth (inches): 356 (includes capillary fringe)	Wetland Hydrology Present? Yes NoNo
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks: , 1	<u> </u>
Hydrology Pre	4
Hy drology 12	SON
	·
	•

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

Sampling Point:_____

25	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)		Species?	Status	Number of Dominant Species
1. Carpines aproliniana	25		FAC	That Are OBL, FACW, or FAC: (A)
2. Arer rubrum	35		FAC	Total Number of Dominant
3. Fagus granditolia	$\iota \omega$		FACU	Species Across All Strata:
, <u> </u>				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6		·		Prevalence Index worksheet:
	710			Total % Cover of: Multiply by:
50% of total cover: 35		= Total Cov	F71	OBL species x 1 =
~ ~ ~	20% 0	f total cover:	47	FACW species x 2 =
Odpinique of diameter (1 to control	11		20.4	FAC species x 3 =
1. Carpinus caroliniana	12	/-	FAC	
2. Acer rubrum	10		FAC	FACU species x 4 =
3. Francisco grande de la	5_		FACU	1
4. Kozn multiflora	<u> 5 </u>		FACU	Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				1 1 7
9				2 - Dominance Test is >50%
	45	= Total Cov	/er \bigcirc	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 22	5 20%	f total cover	9	4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size:			· 	data in Remarks or on a separate sheet)
1. Atherium Felix Fining	30	1/	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. CAROX Crinita	75		OBL	
	- - 1 75		CACI	Indicators of hydric soil and wetland hydrology must
3. folygonum persicaria	- 13	- ——		be present, unless disturbed of problematic.
4. Ludwigs alternathra	10		ENCL	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				Herb - All herbaceous (non-woody) plants, regardless
	70	_ = Total Co	ver , , i	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35	20%	of total cove	r: 14	
Woody Vine Stratum (Plot size: 30)	<u>-</u>	/	/	Woody vine – All woody vines greater than 3.28 ft in height.
1 Vitis destinalis	16		FR	neight.
2				•
3.				-
				-
4				Hydrophytic
5				Vegetation Present? Yes No
TON (1) 1		_ = Total Co		Present: 163
50% of total cover: _5		of total cove	r:	-
Remarks: (Include photo numbers here or on a separate	sheet.)			
1				

_	_		
c	n	ш	
		ľ	L

WWZGOOYI	
Sampling Point:	•

Profile Description: (Describe to the de	oth needed to docum	nent the ir	dicator o	or confirm	the absenc	e of indicators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist) %	Color (moist)	%%	Type ¹	Loc²	<u>Texture</u>	Remarks
0-2 104R3/Z					loom	
2-12 LOYR4/1	104R 4/4	75	/	m	Lown	h
12-16+104R 4/2	104R 414					
12-16 10910 112	10116 117	25		m	Lown	

17					2	
¹ Type: C=Concentration, D=Depletion, RN	1=Reduced Matrix, M	S=Masked	Sand Gra	ains.	"Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						cators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface		(CO) /=	AL DA 447		2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2) Black Histic (A3)	Polyvalue Be Thin Dark St				, 148)	Coast Prairie Redox (A16) (MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gley			147, 140)		Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma		1 2)			(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark		6)			Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Da				_	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depr				_	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangar			LRR N,		
MLRA 147, 148)	MLRA 13					
Sandy Gleyed Matrix (S4)	Umbric Surfa	ace (F13) (MLRA 13	36, 122)	3]	ndicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Fl	oodplain S	oils (F19)	(MLRA 1	48)	wetland hydrology must be present,
Stripped Matrix (S6)	Red Parent	Material (F	21) (MLR	A 127, 14	7)	unless disturbed or problematic.
Restrictive Layer (if observed):						
Type:						^
Depth (inches):					Hydric S	oil Present? Yes No
Remarks:						
, 1	^	\sim 0	1		\mathcal{A}	3544 distribu
/4/	ponc 5	Lio	P	res	and	
			٧		,	
)					
						•

wwzg004f_w



Wetland data point wwzg004f_w facing east



Wetland data point wwzg004f_w facing south

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: DT Supply Leader City/County: Wetzel Sampling Date: 5-13-15
Applicant/Owner: Dominion State: WV Sampling PointWWZGC
Investigator(s): DDWEST Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): CONVEX Slope (%): 30
Subregion (LRR or MLRA): Lat: 39.4938° Long: 80.6064° Datum: W65
Soil Map Unit Name: Gilpin to Peabody Complex NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: A C C C C C C C C C C C C C C C C C C
Remarks: Not all thee parameters present
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) Seturation (A3) Mass Trim Lines (R16)
Saturation (A3)
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
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No hydrology present

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	Absolute % Cover	Species?		
1. Limodendoon Julendera	30	Opcolog	FACU	Number of Dominant Species That Are OBL 54 CM or 54 CM
	32	· 		That Are OBL, FACW, or FAC: (A)
2. Fagus grand tolia	<u> </u>	<u> </u>	FACU	Total Number of Dominant
3. Duercus alm	10		FACU	Species Across All Strata: (B)
4. Querrus rulra	20		FACU	
	<u> </u>		FELL	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				`
7				Prevalence Index worksheet:
	90	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 43		= 10tal Cov	e 18	OBL species x 1 =
	20% 0	r total cover:	10	\ !
Sapling/Shrub Stratum (Plot size: 30)	00			FACW species x 2 =
1. tagus granditolia	30	$-\mathcal{U}_{-}$	FACU	FAC species x 3 =
2. ROSA multiplora	10		FACU	FACU species x 4 =
1				UPL species x 5 =
3				Column Totals: (A) (B)
4				Column rotals:(A)(B)
5				Provolence Index = R/A =
6				Prevalence Index = B/A =
1				Hydrophytic Vegetation Indicators:
7,				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	417)	= Total Cover	/er ←/	
50% of total cover: 21	20% 0	f total cover	. X	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:		/		data in Remarks or on a separate sheet)
Tiero gualdini (Flot size.	20		~·	Problematic Hydrophytic Vegetation ¹ (Explain)
1. Polystichum agrostordos	<u>ي</u>		EALU	
2. Viola khanadacinadensis			FAC	The distance of tradein poil and wattened hydrology my of
3. Travella cordifolia	20		FAC	¹ 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				
				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
	60	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30	20% (of total cover	12	
7:1			` 	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2. 17				
3				
4				
5				Hydrophytic
5				Vegetation Present? Yes No
		_ = Total Co		Present? Yes No _/ _
50% of total cover:	20%	of total cove	r:	
Remarks: (Include photo numbers here or on a separate	sheet.)	·		

J	v	_

Sampling Point: _____ U

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-3 104R4/4		loam
3-16+ 104R 516		loan
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Troduced Walter, The Walted Carle Crains	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Redox Depressions (F8)Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
		0 -
·	No hydriz soi	I Bresent
		· ·

wwzg004_u



Upland data point wwzg004_u facing east



Upland data point wwzg004_u facing south

wwzg004f soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header Pr	oject		City/C	County: Wetzel		Sampling Date: 06/03/16		
Applicant/Owner: Dominion Tra	on Transmission, Inc. State: W							
Investigator(s): KTC/LCE				on, Township, Range:				
Landform (hillslope, terrace, etc								
Subregion (LRR or MLRA). LR	R N	l at·		Long:		Datum:		
Sablegion (ENT of MENA).		Lat		Long	NIMI alaasifi	Datum		
Soil Map Unit Name:								
Are climatic / hydrologic conditi								
						present? Yes No		
Are Vegetation, Soil	, or Hyd	rology	naturally problema	atic? (If needed, e	explain any answ	ers in Remarks.)		
SUMMARY OF FINDING	3S – Atta	ch site m	ap showing san	npling point location	ons, transect	s, important features, etc.		
Hydrophytic Vegetation Prese	ant?	Voc J	No					
Hydric Soil Present?			No	Is the Sampled Area				
Wetland Hydrology Present?		Yes <u>√</u>		within a Wetland?	Yes	No		
Remarks:								
Seep wetland on hillside slope	. Sparsely v	egetated, sa	iturated, surface wat	er flowing.				
HYDROLOGY					Casaadan ladia	atous (seisissuus of tura servinos)		
Wetland Hydrology Indicato		المصام المصائر				eators (minimum of two required)		
Primary Indicators (minimum	of one is requ		all that apply) Frue Aquatic Plants ((D4.4)	Surface Soil Cracks (B6)Sparsely Vegetated Concave Surface (B8)			
✓ Surface Water (A1)								
High Water Table (A2) ✓ Saturation (A3)			atterns (B10)					
Water Marks (B1)		es on Living Roots (C3)						
Sediment Deposits (B2)			Presence of Reduced Recent Iron Reduction	on in Tilled Soils (C6)	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
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)			()			c Position (D2)		
Inundation Visible on Aer	ial Imagery (B7)			Shallow Aqı			
✓ Water-Stained Leaves (B)	9)					raphic Relief (D4)		
Aquatic Fauna (B13)					✓ FAC-Neutra	al Test (D5)		
Field Observations:								
Surface Water Present?	Yes <u>√</u>	No	Depth (inches):	1				
Water Table Present?			Depth (inches):					
Saturation Present?	Yes <u>√</u>	No	Depth (inches):	0 Wetland H	Hydrology Prese	nt? Yes <u>√</u> No		
(includes capillary fringe) Describe Recorded Data (stre	am gauge, r	nonitoring w	ell, aerial photos, pre	vious inspections), if ava	ailable:			
Remarks:								
Saturated at surface down to 2	inches. Cla	ay soils belo	w not saturated.					

= Total Coof total covered	? Status	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	t)
_ = Total Covered total covere	over over FACW	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: 67 Prevalence Index worksheet:	(B) (A/B (B) (B) (B)
_ = Total Coof total cover	over er:	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Frevalence Index worksheet: Total % Cover of: OBL species 10 FACW species 10 FAC species 0 FAC species 0 FACU species 10 FA	(B) (A/E
_ = Total Coof total cover	over over over over over	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 10 FACW species 10 FAC species 0 FACU species 5 Column Totals: 15 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide state) Multiply by: Multiple by: Multiple by: Multiple by: Multiple by: Multiple by: Multiple b	(A/E
_ = Total Covered total covere	over over pover FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species 10 FACW species 10 FAC species 0 FACU species 5 Column Totals: 15 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide state) Multiply by: Multiple by: Multiple by: Multiple by: Multiple by: Multiple by: Multiple b	(A/E
_ = Total Covered total covere	over over pover FACW	That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	(B)
_ = Total Covered total covere	over over pover FACW	That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	(B)
_ = Total Covered total covere	over over pover FACW	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 10 x 2 = 20 FAC species 0 x 3 = 0 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 15 (A) 40 Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	(B)
_ = Total Coordinate	over over pover FACW	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 10 x 2 = 20 FAC species 0 x 3 = 0 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 15 (A) 40 Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	upportir
= Total Covered total covered total covered total covered Y	over FACW	OBL species 0 $x 1 = 0$ FACW species 10 $x 2 = 20$ FAC species 0 $x 3 = 0$ FACU species 5 $x 4 = 20$ UPL species 0 $x 5 = 0$ Column Totals: 15 (A) 40 Prevalence Index $= B/A = 2.67$ Hydrophytic Vegetation Indicators: $1 - \text{Rapid Test for Hydrophytic Vegetation}$ $1 - \text{Vertical Test for Hydrophytic Vegetation}$ $1 - Vertical Test for$	upportir
= Total Covered total covered total covered total covered Y	over FACW	FACW species 10 $\times 2 = 20$ FAC species 0 $\times 3 = 0$ FACU species 5 $\times 4 = 20$ UPL species 0 $\times 5 = 0$ Column Totals: 15 $\times 6$ Prevalence Index 0 $\times 6$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is 0 4 - Morphological Adaptations (Provide states of the American Remarks or on a separate sheet and the American	upportir
_ = Total Coof total cover	over FACW	FACW species 10 $\times 2 = 20$ FAC species 0 $\times 3 = 0$ FACU species 5 $\times 4 = 20$ UPL species 0 $\times 5 = 0$ Column Totals: 15 $\times 6$ Prevalence Index 0 $\times 6$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is 0 4 - Morphological Adaptations (Provide states of the American Remarks or on a separate sheet and the American	upportir
_ = Total Coof total cove	over FACW	FAC species 0 $x 3 = 0$ FACU species 5 $x 4 = 20$ UPL species 0 $x 5 = 0$ Column Totals: 15 (A) 40 Prevalence Index $= B/A = 2.67$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\le 3.0^1$ 4 - Morphological Adaptations ¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation ¹ (Exp	upportir
_ = Total Coof total cove	over FACW	FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 15 (A) 40 Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	upportir
_ = Total Coof total cover	over FACW	UPL species 0 x 5 = 0 Column Totals: 15 (A) 40 Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide states and the column of the colum	upportir
_ = Total Coof total cover	over er:	Column Totals:15(A)40 Prevalence Index = B/A =2.67 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	upportir
_ = Total Coof total cover	over er:	Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	upportir
_ = Total Coof total cove	over er:FACW	Prevalence Index = B/A = 2.67 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	t)
_ = Total Coof total cover	over er:	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee	t)
_ = Total Coof total cover	over er:	1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ — 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee — Problematic Hydrophytic Vegetation¹ (Exp	t)
_ = Total Coof total cover	FACW	1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹ — 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee — Problematic Hydrophytic Vegetation¹ (Exp	t)
_ = Total Cooperation of total coverage Y	FACW	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	t)
of total cove	FACW	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	t)
of total cove	FACW	4 - Morphological Adaptations¹ (Provide sudata in Remarks or on a separate shee Problematic Hydrophytic Vegetation¹ (Exp	t)
Y Y	FACW	data in Remarks or on a separate shee Problematic Hydrophytic Vegetation ¹ (Exp	t)
Y Y	FACW	Problematic Hydrophytic Vegetation ¹ (Exp	,
Y			lain)
Y	FACW		
	IACVV		
_ <u> </u>	FACU	¹ Indicators of hydric soil and wetland hydrology	/ must
	_ FACU	be present, unless disturbed or problematic.	
		Definitions of Four Vegetation Strata:	
		Tree – Woody plants, excluding vines, 3 in. (7.	
_			dless c
		ineight.	
		Sapling/Shrub - Woody plants, excluding vine	es, less
		than 3 in. DBH and greater than or equal to 3.2	
		m) tall.	
		Herb – All herbaceous (non-woody) plants, rec	ardles
= Total C	over	of size, and woody plants less than 3.28 ft tall.	garaico
of total cove	er: 3		
			28 ft in
		neight.	
		•	
		Hydrophytic	
	over	Present? Yes No	
Or total oov	,,,,	<u>: </u>	
	_ = Total Co	= Total Cover of total cover: 3	Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than or equal to 3.2 m) tall. Herb – All herbaceous (non-woody) plants, regor of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.2 height. Hydrophytic Vegetation Present? Yes No

SOIL Sampling Point: _____

Profile Description: (Describe to the depth needed to docume	ent the i	ndicator	or confirm	the absence	of indicator	s.)
Depth Matrix Redox	Features	S				
(inches) Color (moist) % Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-2 7.5YR 2.5/1 100				SiClLoam	Saturated	
2-6 7.5YR 3/1 90 7.5YR 4/6	10	C	PL/M	Clay	· -	
6-13 7.5YR 4/1 75 7.5YR 4/6	25	С	PL/M	Clay		
13-16 7.5YR 5/2 70 7.5YR 4/6	30	С	PL/M	Clay		
					•	
				-		
			-		· -	
				-		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=	=Masked	Sand Gra	ains.		L=Pore Linin	
Hydric Soil Indicators:						blematic Hydric Soils ³ :
Histosol (A1) Dark Surface (. ,	(- -)				10) (MLRA 147)
Histic Epipedon (A2) Polyvalue Beld				148) (Coast Prairie F	
Black Histic (A3) Thin Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed			47, 148)		(MLRA 147	, 148) odplain Soils (F19)
Stratified Layers (A5) Depleted Matri	,	1 2)		'	(MLRA 136	
2 cm Muck (A10) (LRR N) ✓ Redox Dark St		6)		\		Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark	Surface	(F7)			Other (Explain	
Thick Dark Surface (A12) Redox Depres						
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganes		es (F12) (LRR N,			
MLRA 147, 148) MLRA 136)		MI DA 40	C 400)	31	-l:t	
Sandy Gleyed Matrix (S4) Umbric Surface Sandy Redox (S5) Piedmont Floo						drophytic vegetation and ogy must be present,
Stripped Matrix (S6) Red Parent Ma						d or problematic.
Restrictive Layer (if observed):		_ · / (· ·		, u.		a or provious
Type:						
Depth (inches):				Hvdric Soi	I Present?	Yes No
Remarks:				,		
Tromano.						

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Supply Header F	roject		City/C		Sampling Date: 06/03/16			
Applicant/Owner: Dominion T	ransmission,	Inc.			Sampling Point:			
Investigator(s): KTC/LCE				on, Township, Range:				
Landform (hillslope, terrace, e								
Subregion (LRP or MLPA):	RR N	La	ot:	Long:		Datum:		
Cail Man Hait Name:		Lc	ıt	Long	NIVA/I alaaa:f:	Datum		
Soil Map Unit Name:								
Are climatic / hydrologic condi								
						present? Yes No		
Are Vegetation, Soil _	, or Hyd	rology	naturally problema	atic? (If needed, e	explain any answ	ers in Remarks.)		
SUMMARY OF FINDIN	IGS – Atta	ch site	map showing san	npling point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Pres	cont2	Voc	No √					
Hydric Soil Present?			No ✓	Is the Sampled Area				
Wetland Hydrology Present?	,	Yes	No ✓	within a Wetland?	Yes	No <u> </u>		
Remarks:			<u> </u>					
Forested hillside slope.								
·								
HYDROLOGY								
Wetland Hydrology Indicat	ors:				Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum	of one is req	uired; che	ck all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1) True Aquatic Plants (B14)					Sparsely Ve	egetated Concave Surface (B8)		
High Water Table (A2)			or (C1)	Drainage Patterns (B10)				
Saturation (A3)			es on Living Roots (C3)	Roots (C3) Moss Trim Lines (B16)				
Water Marks (B1)		_	_ Presence of Reduced	d Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)			Recent Iron Reductio					
Drift Deposits (B3)		_	_ Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)			Other (Explain in Rer	narks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		D-7\			Geomorphic Position (D2)			
Inundation Visible on Ae Water-Stained Leaves (В7)			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)	59)				FAC-Neutra	• • • •		
Field Observations:					I AC-Neutla	ii Test (D3)		
Surface Water Present?	Vac	No	Depth (inches):					
Water Table Present?			Depth (inches):					
Saturation Present?			Depth (inches):		dydrology Prese	nt? Yes No✓		
(includes capillary fringe)	-					110 100 1		
Describe Recorded Data (str	eam gauge, r	nonitoring	well, aerial photos, pre	vious inspections), if ava	nilable:			
Remarks:								
None.								
None.								

/EGETATION (Four Strata) – Use scientific na			lodiest:	Sampling Point:
Tree Stratum (Plot size:30 feet)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Quercus alba	40	Υ	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2
Nyssa sylvatica	20	Y	FAC	mat Ale OBE, I AOW, OI I AO.
				Total Number of Dominant
3				Species Across All Strata:
ł				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 28.5714
)				Prevalence Index worksheet:
·				Total % Cover of: Multiply by:
700		= Total Cove		OBL species $0 \times 1 = 0$
50% of total cover: 30	20% of	total cover:	12	FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 15)	20	V	FACIL	1 ACVV species
Acer sacharrum	30	Y	FACU	
Fraxinus americana	10	Y	FACU	1766 species x + =
Nyssa sylvatica	5	N	FAC	01 L species x 0 =
k <u> </u>				Column Totals:113 (A)425
<u>. </u>				Prevalence Index = B/A = 3.76
). <u> </u>				
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
·				2 - Dominance Test is >50%
		= Total Cove		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 22.5		total cover:	_	4 - Morphological Adaptations ¹ (Provide supp
Herb Stratum (Plot size:5)	20 /0 01	total cover.		data in Remarks or on a separate sheet)
Fraxinus americana	2	Υ	FACU	Problematic Hydrophytic Vegetation ¹ (Explain
Viola septentrionalis	2	Y	FACU	
Nyssa sylvatica		Y	FAC	¹ Indicators of hydric soil and wetland hydrology m
Podophyllum peltatum	1		FACU	be present, unless disturbed or problematic.
·				Definitions of Four Vegetation Strata:
5. Polystichum acrostichoides		N	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 c
5		·		more in diameter at breast height (DBH), regardle
7				height.
3				Continue/Chrush Wands plants avaluating visco
)		. <u></u>		Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28 f
0				m) tall.
4				Horb All banks accord (see a constitution of the constitution of t
	_	= Total Cove		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.
50% of total cover: 4				, , , , , , , , , , , , , , , , , , , ,
Noody Vine Stratum (Plot size:)		23.01.		Woody vine – All woody vines greater than 3.28 the interest of the state of the s
1 10t 0120.				height.
2				
2				
2. 3. 4.				Hydrophytic
2				Vegetation
2		= Total Cove	 er	
1		= Total Cove	 er	Vegetation
2	20% of	= Total Cove	 er	Vegetation
50% of total cover:	20% of	= Total Cove	 er	Vegetation

SOIL Sampling Point: _____

Profile Desc	ription: (Describe t	o the dep	th needed to docun	nent the i	ndicator	or confirn	n the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature:	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	
1-9	10YR 3/3	100					SiClLoam	
9-12	10YR 4/3	70	2.5YR 4/6	30	С	M	SiClLoam	
							-	
				-	-		-	
					-			
				·				
								-
							-	
¹ Type: C=Co	oncentration, D=Depl	etion, RM:	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indi	cators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (N	/ILRA 147,	, 148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(0.4.4)	Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Dar Redox Depre				_	Other (Explain in Remarks)
	lucky Mineral (S1) (L	RR N	Iron-Mangan			IRRN		
	147, 148)	ixix i x ,	MLRA 13		C3 (1 12) (,		
	lleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	³ lr	ndicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N					inless disturbed or problematic.
Restrictive I	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric So	oil Present? Yes No _✓
Remarks:								

wwza001e



Wetland data point wwza001e_w



Wetland data point wwza001e_u

WETLAND DETERMINATION DATA FORM – Eastern Mounta	ins and Piedmo	ant Pegion		
Project/Site: DTI Supply Letter Macking and Specity/County: Wetze Applicant/Owner: Dom In 100	(o " - 11 2 2		
	C1-1-1 11 /	Sampling Date: U - L -		
Investigator(s): J. Duncon, D. Brame Section, Township, Range:	State: WV	Sampling Point: WWZに		
Landform (hillslope, terrace, etc.): Local relief (concave, convex, n				
Subregion (LRR or MLRA): Lat: 39° 32' 58.47" Long: 8	one):	Arve Slope (%): 0		
Soil Map Unit Name: Gil pln Peabody	0 37 33.	16 Datum: WGS 8		
Are climatic / hydrologic conditions on the site typical for the time of the site typical for the site and the site typical for the site and the site typical for the site and the site site site site site site site sit	NWI classifica	tion: <u>PEM</u>		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Norm				
Are Vegetation Soil Not on Hunter		esent? Yes X No		
SIIMMARY OF FINDINGS Association in a survival of the state of the sta	explain any answers	s in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locat	ions, transects,	important features, etc.		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Is the Sampled Area within a Wetland?				
All three parameters present				
HYDROLOGY				
Wetland Hydrology Indicators:	Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil C			
Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Oder (C1)		tated Concave Surface (B8)		
High Water Fable (A2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	✓ Drainage Patterns (B10)			
Presence of Reduced Iron (C4)	- , -,			
Sediment Deposits (B2) Recent Iron Reduction in 711 1.0 1/4 (20)	Dry-Season Water Table (C2)Crayfish Burrows (C8)			
Algal Met or Crust (B4) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat of Crust (B4) Other (Explain in Remarks) Iron Deposits (B5)	Stunted or Stressed Plants (D1)			
Inundation Visible on Aerial Imagery (B7)	✓ Geomorphic Paris Pa			
Water-Stained Leaves (B9)	Shallow Aquita			
Aquatic Fauna (B13)	Microtopograph FAC-Neutral To	nic Relief (D4)		
Field Observations:	Z AC-Neutral 1	est (D5)		
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches) Further Saturation Present? Yes No Depth (inches)				
(includes capillary fringe) Wetland	Hydrology Present?	Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available to the control of th	ailable:			
Remarks:	···			
Hydrology present				
		į.		
		1		

ree Stratum (Plot size:)	Absolute	Dominant	Indicator	Sampling Point: WWZ60 Dominance Test worksheet:
	-			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
- NE				Total Number of Dominant
NONC				Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/I
	-			Prevalence Index worksheet:
500/ afact to		= Total Cov	/er	Total % Cover of:Multiply by:
50% of total cover:apling/Shrub Stratum (Plot size:36)	20% of	total cover	·	OBL species x 1 =
HCCC MCC MCC MCC MCC	10	./	.~	FACW species x 2 =
Acor negundo	10		FAC	FAC species x 3 =
		-		FACU species x 4 =
	·			UPL species x 5 =
				Column Totals: (A) (B
	· -			Prevalence Index = B/A =
		·		Hydrophytic Vegetation Indicators:
		·		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	10		-	3 - Prevalence Index is ≤3.01
50% of total cover: 5	20% of	= Total Cov	er 7_	4 - Morphological Adaptations ¹ (Provide supporting
erb Stratum (Plot size:	2070 01	total cover:		data in Remarks or on a separate sheet)
Microslegium Vimina	40	1/	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Carox Camasa	10		OBL	y y y sagatanin (Explain)
Onoclon sensibilis	20	V	FIKW	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) of more in diameter at breast height (DBH), regardless of
				neight.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
50% of total cover: <u>3</u> 5		Total Cov	er [4	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
pody Vine Stratum (Plot size: 36)	20% of 1	total cover:		Woody vine - All woody vines greater than 3.28 ft in height.
17000				
DOTO				
				Hydrophytic
		-		Vegetation //
50% of total cover:		Total Cove		Present? Yes No No
marks: (Include photo numbers here or on a separate si	20% of t	otal cover:		
separate st	ieet.)			:

Profile Desc	ription: (Describe to	o the depth	needed to docum	ent the inc	dicator or	confirm	the absence o	f indicators.)
Depth	Matrix		Redo)	r Features				
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	104R 4/3		DYR 4/6	<u>720</u>	<u> </u>	m	Loam.	
2-16	104R4/2		104R 416	710		M	Loam	
	•							
						-		
								
1								
'Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked S	Sand Grai	ns.	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil I								ors for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Dark Surface	: (\$7)	(0.0) (4.1)		20	cm Muck (A10) (MLRA 147)
Black Hi			Polyvalue Be	elow Surface	e (S8) (IVII	_RA 147,		past Prairie Redox (A16)
	n Sulfide (A4)		Loamy Gleye			17, 140)		(MLRA 147, 148) edmont Floodplain Soils (F19)
Stratified	d Layers (A5)		X Depleted Ma		-/			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark					ry Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Date				Ot	her (Explain in Remarks)
	ark Surface (A12) Mucky Mineral (S1) (L	DD N	Redox Depre			55 N		
MLRA	4 147, 148)	NK N _I	Iron-Mangan MLRA 13		S (F12) (L	RK N,		
	Sleyed Matrix (S4)		Umbric Surfa		MLRA 136	5. 122)	3India	cators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo					land hydrology must be present,
	Matrix (S6)		Red Parent N					ess disturbed or problematic.
	Layer (if observed):							
Type:								\checkmark
	ches):						Hydric Soil	Present? Yes No No
Remarks:			. 1			\cap	<u> </u>	
			$\mathbb{Z}[\mathcal{L}]$	h' <	ره>	V	resent	
			1490	`		1 B	Court of	
)					
ı								

wwzg001e_w



Wetland data point wdog001e_w facing east



Wetland data point wdog001e_w facing south

WETLAND DETERMINATION DATA FORM	I - Eastern Mountains and Piedmont Region
Project/Site: DT (Supply Lepage Marking Sit	County: Lastern Mountains and Piedmont Region Sampling Date: 4-22-
Applicant/Owner: Dominion	County: Wetzel Sampling Date: 4-22-
1 -1 -	ion, Township, Range:
LUCALIE	elief (concave, convex, none): Slope (%): 30
1-1-1-1 Lat. 31 32 06	.37" Long: 80°39'54.05" Datum: W65 81
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks,)
Significantly dietu	rhod?
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If nooded)
SUIVIMARY OF FINDINGS - Attach site map showing san	mpling point locations, transects, important features, etc.
Hydric Soil Present? Yes No Yes No No No No No No No No No N	is the Sampled Area
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No
Not all three parameters pu	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	usery
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Surface Soil Cracks (B6)
High Water Table (4.9)	B14) Sparsely Vegetated Consour Co. ()
Saturation (A.2) —— Trydrogen Sumae Odd	Drainage Patterns (B10)
Water Marks (B1) Presence of Reduced	es on Living Roots (C3) Moss Trim Lines (B16)
Pecent Iron Dadwells	= 1.) Season water Table (C2)
Thin Muck Surface (C	
Algal Mat or Crust (B4) Iron Deposits (B5) Other (Explain in Rem	
Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Aquatic Fauna (B13)	Microtopographic Relief (D4)
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	
valer rable Present? Yes No Depth (inches):	
(includes capillary fringe) Yes NoX Depth (inches):	Wetland Hydrology Present 3 Voc
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections) if available
Remarks:	nodo inspections), il avaliable:
i	Λ
No hydrology pro	esont
0 9 3 1	
	1

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

EGETATION (Four Strata) – Use scientific na	mes of	•		Sampling Point:	
	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:	
Prunus serofina	70 COVEL	<u>Species r</u>		Number of Dominant Species	
Quercus rubra	15		FACI	That Are OBL, FACW, or FAC:	A)
Acer regundo	12	\	EAC	Total Number of Dominant	
Acer levioderne	<u> 1.) </u>		177	Species Across All Strata: 6 (B)
The received me	15		TH	Percent of Dominant Species	
				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A/B
					ruo,
				Prevalence Index worksheet:	
S	60	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover: 30		total cover:	12	OBL species x 1 =	
apling/Shrub Stratum (Plot size: 30				FACW species x 2 =	
Cornus florida	_10_		FACI	VFAC species x 3 =	
Rosamultiflora	30			FACU species x 4 =	
Elacagnus umbellata	20	7		UPL species x 5 =	
Heer negundo	10		FAC	Column Totals: (A)	(B)
0					(0)
				Prevalence Index = B/A =	
			-	Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
	70	= Total Cove		3 - Prevalence Index is ≤3,0 ¹	
50% of total cover: <u>35</u>	20% of	total cover	" เ4	4 - Morphological Adaptations ¹ (Provide suppo	orting
erb Stratum (Plot size:()				data in Remarks or on a separate sheet)	•
Podophyllum polytotum	40	./	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
Trolleum grandiflora	7	V	UPL		
Cordonine angustata	15	1	FIACUL	¹ Indicators of hydric soil and wetland hydrology mu	st
			1700	be present, unless disturbed or problematic.	••
				Definitions of Four Vegetation Strata:	
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm	a) av
				more in diameter at breast height (DBH), regardles	s of
				height.	- •.
				Sapling/Shrub - Woody plants, excluding vines, le	nee.
),				than 3 in. DBH and greater than or equal to 3.28 ft	(1
				m) tall.	•
	<u> </u>			Herb - All herbaceous (non-woody) plants, regardle	222
500/ 564-44	<u>(00)</u>	= Total Cove	r, 5	of size, and woody plants less than 3.28 ft tall.	533
50% of total cover:	_ 20% of	total cover:_	12	Woody vine - All woody vines greater than 3.28 ft	1
oody Vine Stratum (Plot size:)				height.	ın
				Hydrophytio	
				Hydrophytic Vegetation	
_		Total Cove	r	Present? Yes No	
50% of total cover:	20% of 1	total cover:			
emarks: (Include photo numbers here or on a separate she	eet.)				
1	==/			•	

~~	
V 1	
	11

Sampling Point: ______U

(inches)	Matrix		eeded to document the indicator or confirm the Redox Features	
	Color (moist)	% (Texture Remarks
0-6	104R4/3			Loron
9-16+	104R 4/4			Lown
				1919/1
ype: C=Co	oncentration, D=Deple	etion. RM=Red	duced Matrix, MS=Masked Sand Grains. ² L	ocation, DIDoro Lining M Matrix
ydric Soil I	ndicators:		Ladod Matrix, MO-Masked Salid Grains.	ocation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
_ Histosol	(A1)		Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
_ Histic Ep	pipedon (A2)	_	Polyvalue Below Surface (S8) (MLRA 147, 14	8) Coast Prairie Redox (A16)
_ Black His		_	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
	n Sulfide (A4)	_	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
	Layers (A5)	_	Depleted Matrix (F3)	(MLRA 136, 147)
	ck (A10) (LRR N) I Below Dark Surface	(0.11)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
	rk Surface (A12)	(A11) _	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Sandy M	lucky Mineral (S1) (L l	RR N	Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N,	
	147, 148)	_	MLRA 136)	
	leyed Matrix (S4)	_	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
_ Sandy R	edox (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 L	ayer (if observed):			
Туре:		 		
				Hydric Soil Present? Yes No 🔀
Depth (inc	:hes):			
Depth (inc emarks:				
		handr	A 22 E	
		heger	resent lios si	
		hegdr	re soil present	
		hegar	re soil present	
		hegdr	resert lies sr	
		hegelr	resert hos so	
		heger	re soil present	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	Roserd lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		hegdr	resent lios si	
		heger	resent lios si	
		heger	resent lies si	

wwzg001_u



Upland data point wwzg001_u facing east



Upland data point wwzg001_u facing south

wwzg001 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: DT1 Supply Hencer Macking and Sileity/County: Wetzel Sampling Date: 4/22/ Applicant/Owner: Dominion
Applicant/Owner: Dominion Sampling Date: 1/20 Sampling Date: 1/20
Investigator(s): J. Duncano D. B. Ganza State: WV Sampling Point Sampling Point State: State: State: Sampling Point State: State
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): Local relief (concave, convex, none): Subregion (LRR or MLRA): Section, Township, Range: Local relief (concave, convex, none): Subregion (LRR or MLRA):
Subregion (LRR or MLRA): Local relief (concave, convex, none): Con Chaul Slope (%): Ho
Subregion (LRR or MLRA): P Lat: 39°33' 02.85" Long: 88° 39' 42.32" Datum: LDGS Soil Map Unit Name: 5KiQmore
NWI classification PEX
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
, or Hydrology significantly disturbed? Are "Normal Circumstance"
naturally problematic? (If needed, explain any ensurers in Development)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No
Hydric Soil Present? Yes No Is the Sampled Area
Wetland Hydrology Present? Yes No
Remarks: All three parameters present
rock mile perameters present
HYDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
Surface Water (A1) True Aquatic Plants (B14)
Operation March (20)
Water Marks (R1) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (R16)
Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Drift Deposits (B3) Crayfish Burrows (C8)
Algal Mat or Crust (B4) Saturation Visible on Aerial Imagery (C9)
Titol Deposits (B5)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Geomorphic Position (D2) Shallow Aquitard (D3)
Microtopographic Polief (D4)
Aquatic Fauna (B13) Field Observations: Microtopographic Relief (D4) FAC-Neutral Test (D5)
Deput (inches);
Saturation Present? Yes No Depth (inches): Started
(includes capillary fringe) Wetland Hydrology Present? Ves
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Λ
Hydrology present
·

			Sampling Point:
ree Stratum (Plot size: _ \geqslant δ	Absolute Domina	nt Indicator	Dominance Test worksheet:
Acer negundo	% Cover Species		Number of Dominant Species
Platanus occidentalis	- 40 -	# FAC	That Are OBL, FACW, or FAC:
	<u> </u>	FACI	
			Total Number of Dominant Species Across All Strata:
	_		opecies Across All Strata:(B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: (A/E
	76		Prevalence Index worksheet:
50% of total cover: 3	60 = Total C	over i	Total % Cover of:Multiply by:
pling/Shrub Stratum (Plot size:	20% of total cove	er:	OBL species x 1 =
Planty-official Stratum (Plot Size:	118	/	FACW species x 2 =
& Acer regundo	<u> 40 </u>	FAC	FAC species x 3 =
3			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B)
			(B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
	· ———		1 - Rapid Tost for Hydrophysic Very
	·		2 - Dominance Test is >50%
	- LIR		3 - Prevalence Index is ≤3.0¹
50% of total cover.	HO = Total Co	ver	
50% of total cover: 27	20% of total cove	L:	4 - Morphological Adaptations (Provide supporting
Ladwiger abenitodia	5 ~ /		data in Remarks or on a separate sheet)
P. 1 0 . U	15 V	FACH	J — Problematic Hydrophytic Vegetation 1 (Explain)
Onocloca sensibilis	15 V	FAC	
CHUCIOCA SONSI DINS	<u>15</u> _ V	FACW	¹ Indicators of hydric soil and wetland hydrology must
Ludwigia poploixos	15	DOL	be present, unless disturbed or problematic.
0 41			Definitions of Four Vegetation Strata:
		-	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			inore in diameter at preast neight (DBH), regardless of
			height.
			Sanling/Shrub Woody plants and I
			Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) to!!
			m) tall.
			Harb All barbanasia (name
****	70 = Total Cov	er .	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35	20% of total cover.	_[4]	
dy Vine Stratum (Plot size: 30)			Woody vine - All woody vines greater than 3.28 ft in
		-	height.
1002			
			Hydrophytic
			Vegetation
50% of total agreem	= Total Cov	Ψ' '	Present? Yes No
50% of total cover:	20% of total cover:		
arks: (Include photo numbers here or on a separate sh	leet.)		
			•

^			
r.	ч	Ł	
-7	 "		

Sampling Point: + W

Profile Desc	cription: (Describe t	o the depth	needed to docu	ment the indica	itor or confirm	the abse	nce of indica	ators.)	
Depth	Matrix		Red	ox Features				•	
(inches)	Color (moist)		Color (moist)			Texture		Remarks	
0-12+	104R 4/2		104R 416	<u>75 C</u>	$\underline{\underline{m}}$	LOAM	<u>muxed</u>	W/ prigrovel	
				·		v		· · · · · · · · · · · · · · · · · · ·	
									
									
	*****			_					
			7						
1Typo, C. C.	oncontroller D D1				— ——				
Hydric Soil	oncentration, D=Depl	etion, RM=F	Reduced Matrix, N	MS=Masked San	d Grains.	Location	n: PL=Pore L	ining, M=Matrix.	3
Histosol			Dark Surfa	00 (67)		11		Problematic Hydric Soil	ls":
	pipedon (A2)		Dark Surface Polyvalue F	Below Surface (S	8) (MI PA 147	148)		k (A10) (MLRA 147) irie Redox (A16)	
	istic (A3)			Surface (S9) (ML		, 140) _		147, 148)	
	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)	•	_		Floodplain Soils (F19)	
	d Layers (A5) uck (A10) (LRR N)		_X Depleted M	latrix (F3)				136, 147)	
	d Below Dark Surface	(Δ11)		k Surface (F6) ark Surface (F7)		_		low Dark Surface (TF12)	
	ark Surface (A12)	, (, , , , ,	Redox Dep			_	Other (Exp	plain in Remarks)	
	Mucky Mineral (S1) (L	RR N,		anese Masses (F	12) (LRR N,				
	A 147, 148)		MLRA 1		, ,				
	Gleyed Matrix (S4)			face (F13) (MLR				f hydrophytic vegetation a	ind
	Redox (S5) d Matrix (S6)			loodplain Soils (-	drology must be present,	
	Layer (if observed):		Red Palell	t Material (F21) (WILKA 127, 14	/)	uniess disti	urbed or problematic.	
Туре:	-								
Depth (in	ches):					Hydric	Soil Present	? Yes_X No	
Remarks:						Tiyano		163	
	1_			· 0	Λ				
	10	ryan	ric Se	ry pr	Szen				
		0		, ,					
]
									1
									1
									1

wwzg002f_w



Wetland data point wdog002f_w facing east



Wetland data point wdog002f_w facing south

WETLAND DETERMINATION DATA FORM	- Eastern Mountains and Piedmont Region
Project/Site: DTI Supply Hercon Mockey ford Solety/	Course 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Applicant/Owner: Dominion	Sampling Date:
Investigator(s): The Duncky D. Brame Section of Chillegon towns of the Section of	State: WV Sampling Politi:
Subregion (LRR or MLRA): Lat: 39° 33'	elief (concave, convex, none): CONVEX Slope (%): 30
Soil Map Unit Name: Skilonorc	2, 89 Long: 50 39 42.60 Datum: 65 8
Are climatic / hydrologic conditions on the site to the	NWI classification: NWI
Are climatic / hydrologic conditions on the site typical for this time of year? \ Are Vegetation Soil or Hydrologic	res No (If no, explain in Remarks.)
Significantly distur	rhod?
Are Vegetation, Soil, or Hydrology naturally problem.	atic? (If needed evel-in-
Sommary of Findings - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No No No No No No No No No No No No	Is the Sampled Area
wetland Hydrology Present? YesNo	within a Wetland? Yes No
Remarks:	^
Not all three parameters p	resent
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	
— Hydrogen Sulfide Odd	
Water Marks (R1) — Oxidized Rhizosphere	es on Living Roots (C3) Moss Trim Lines (B16)
Sediment Descrite (De)	Iron (C4) Dry-Season Water Table (C2)
Drift Denocite (B2)	n in Tilled Soils (C6) Crayfish Burrows (C8)
Algel Met or Cruet (D.)	7) Saturation Visible on Aerial Imagery (CO)
Other (Explain in Rem	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)
Water-Stained Leaves (B9)	Shallow Aquitard (D3)
Aquatic Fauna (B13)	Microtopographic Relief (D4)
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No \(\sum_{\text{Depth}} \) Depth (inches):	
water rable Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Voc
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	ique inspections) if available
Remarks:	ious inspections), il available:
^ ^ /	·
No historia	A .
No hydrology preso	
, 0 1	
ŧ	
•	
	

		plants. Dominant	India-t-	Sampling Point:
ee Stratum (Plot size:	% Cover	Species?	Indicator	Dominance Test worksheet:
Platoner @ occidentalis	20	-	PACH	Number of Dominant Species
Quercus alpa	75	/-		That Are OBL, FACW, or FAC: (A)
Orierais rubra	2 2	/-	EVEN	Total Number of Dominant
g Tabla	25		FACU	Species Across All Strata: (B)
			-	
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B
				Prevalence Index worksheet:
	70	= Total Cove		Total 9/ O /
50% of total cover: 35	200/ 05	total Cove	er 121	
pling/Shrub Stratum (Plot size: 30)	20% 01	total cover:		OBL species x 1 =
Rosn multiflora	25		,	FACW species x 2 =
Ebeagnes umbellata	2 5	——	EAC	√ FAC species x 3 =
- grass Omización	15		NE	FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
			1	
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	41			3 - Prevalence Index is ≤3.0¹
h Stratum (Platain 1) 50% of total cover: 28		Total Cove	X	4 - Morphological Adaptations ¹ (Provide supporting
b Stratum (Plot size:()	_ 20% 01 (otal cover;_	0	data in Demarks and detailed in Demarks and demarks an
Lamium purpureum	10		_	data in Remarks or on a separate sheet)
Viola rotundifolia	12		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
Candon Volumentalia	15	_ _	FAC	1
Cardemine angustate	15		FACU	¹ Indicators of hydric soil and wetland hydrology must
Trilleum grandestora	_5_		UPL-	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.
				Sanling/Shrub Woody plants and it
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
				m) tall.
				Harb All harbaneous (see
	<u> 20</u> =	Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 25	20% of to	tal cover:_	10	
dy Vine Stratum (Plot size: 30)				Woody vine - All woody vines greater than 3.28 ft in
			-	height.
150/2				
				Hydrophytic ,
				Vegetation (/
E00/ -54		Total Cover		Present? Yes No X
50% of total cover:	20% of tot	tal cover:		
arks: (include photo numbers here or on a separate shee	et.)			
				•

Sampling Point:
Sampling Point:

Profile Description: (Describe to the dep	tn needed to document the Redox Feature	indicator or confirn	n the absence o	f indicators.)
(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
D-8 104R4/3			Joan	
8-16+ LOYR 6/4			LOAM	
Type: C=Concentration, D=Depletion, RM: Hydric Soil Indicators:	Reduced Matrix, MS=Masker	d Sand Grains.	² Location: PL=	Pore Lining, M=Matrix.
Histosol (A1)			Indicato	ors for Problematic Hydric Soils ³ :
	Dark Surface (S7)	on (CO) (AP) = A		m Muck (A10) (MLRA 147)
Black Histic (A3)	Polyvalue Below Surfa Thin Dark Surface (S9	ICE (58) (IVILRA 147, I) (MI DA 147, 140)		est Prairie Redox (A16)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)		MLRA 147, 148) dmont Floodplain Soils (F19)
Stratified Layers (A5) 2 cm Muck (A10) (LRR N)	Depleted Matrix (F3)			MLRA 136, 147)
Depleted Below Dark Surface (A11)	Redox Dark Surface (IDepleted Dark Surface		Ver	y Shallow Dark Surface (TF12)
Thick Dark Surface (A12)	Redox Depressions (F		Oth	er (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Mass			
MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 136)		_	
Sandy Redox (S5)	Umbric Surface (F13) Piedmont Floodplain S	(MLRA 136, 122)	³ Indica	ators of hydrophytic vegetation and
Stripped Matrix (S6)	Red Parent Material (F	5011S (F 19) (WILRA 14 521) (MIRA 127 143		nd hydrology must be present, is disturbed or problematic.
Restrictive Layer (if observed):		(main 12), 14)	dines	is disturbed or problematic.
Type:				•
Depth (inches):			Hydric Soil Pi	resent? Yes No
Remarks:			-t	
	19-10	~ ()		A
	No hepon	c 50U	Bress	
	9		•	

wwzg002_u



Upland data point wwzg002_u facing east



Upland data point wwzg002_u facing south

wwzg002 soils



Wetland/upland soils