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

Sampling Point: Wall Oll Ju

31) X30-Ft	Absolute Dominant In		Dominance Test worksheet:
	% Cover Species?	- 1	Number of Dominant Species 2
1			That Are OBL, FACW, or FAC: (A)
2		т	Total Number of Dominant
3		s	Species Across All Strata: (B)
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6			mar Ac obe, racw, or rac (Ab)
7		P	Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
0	= Total Cover	c	DBL species x 1 =
500/ of total access		-	FACW species x 2 =
50% of total cover;	20% of total cover:		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3179077)	5 Y F		FACU species x 4 =
1. Liquidambar Styram flug			JPL species x 5 =
2. PIRMS TARA 9	5 Y F	/10	
3			Column Totals: (A) (B)
4			Prevalence Index = B/A =
5			lydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7		_	2 - Dominance Test is >50%
8.		-	
-	10 = Total Cover		3 - Prevalence Index is ≤3.01
50% of total cover:	20% of total cover:	2 -	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30 x 30 +)	_ 20% of total cover: _		
Herb Stratum (Plot size: 70 70 70 70 70 70 70 70 70 70 70 70 70	19 V D		Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium		- A Ca -	pe present, unless disturbed or problematic.
2. Arundinaria gigantea			Definitions of Four Vegetation Strata:
3. Lespedeza cuneata	20 Y F	ACU -	Free – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		m	nore in diameter at breast height (DBH), regardless of
5		h	neight.
6		S	Sapling/Shrub - Woody plants, excluding vines, less
7			han 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			
9			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			or size, and woody plants less than size it tall.
10		v	Noody vine - All woody vines greater than 3.28 ft in
11		h	neight.
12			
07.	55 = Total Cover		
50% of total cover: 27.5	20% of total cover:	11	
Woody Vine Stratum (Plot size: 30 ×30ft)			
1			
2			
3.			
4			
5.			
	= Total Cover		Hydrophytic Vegetation
5000 - 51-1-1			Present? Yes No
50% of total cover:			
Remarks: (If observed, list morphological adaptations below	V).		
E R			
			= 87

Sampling Point: WSW 0018_Y

Profile Description: (Describe to the depth needed to document the indicator or confi	rm the absence of Indicators.)
Depth Matrix Redox Features	- Normania - Normania
(inches) Color (moist) % Color (moist) % Type Loc ²	Texture Remarks
0-4 10 YR 3/2 100	LS > 30 % uncovered
	gravel present
	3.0.1
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) — Bepleted Matrix (19) — Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) — Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	Other (Explain in Remarks)
Thick Dark Surface (A12) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O,	P, T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MI	
	1407, 1000, 1000)
Dark Surface (S/) (LKK P. S. I. U)	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Restrictive Layer (if observed):	
Restrictive Layer (if observed): Type:	Hydric Soil Present? Ves No
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes NoX_
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No X
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes NoX_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type: Depth (inches): Type: Ty	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X_
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X
Restrictive Layer (if observed): Type:	Hydric Soil Present? Yes No_X
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No_X
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No_X
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No_X
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No_X
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type:	
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
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Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Graved Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Graved Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	
Restrictive Layer (if observed): Type: Grave Depth (inches): 4 Inch. Remarks: COULD hot auger below 4 inches, 9th Fill material	



Upland data point wsuo018_u facing north.



Upland data point wsuo018_u facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP State: VA Sampling Point: WS40018_4 Applicant/Owner: Dominion Investigator(s): ESI-S, Bryan, 15. Murphrey Section, Township, Range: NA Landform (hillslope, terrace, etc.): SPOI 1 PILE Local relief (concave, convex, none): CONVEX Slope (%): 2

Subregion (LRR or MLRA): LRRT Lat: 36.78624 Long: -76.53282 Datum: W. Soil Map Unit Name: TOMOTIEL (OOM) 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 Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Yes ____ No ___ Depth (inches): NA
Yes ____ No ___ Depth (inches): 720 Surface Water Present? Water Table Present? Yes No Depth (inches): 320 Wetland Hydrology Present? Yes _____ No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

 A continue professional des la continue de la continue del la continue de la continue del la continue de la conti	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3084X 3084) 1. ACEV VUDGUM	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidambor Styraciflua	10 4 EAC	Total Number of Dominant Species Across All Strata: (B)
THE CONTROL OF THE PROPERTY OF	ETT TO BE A STORY OF THE STORY	Openies / Dissert in Children
5		Percent of Dominant Species That Are OBL, FACW, or FAC:
6.	The Sale of the Sa	Prevalence Index worksheet:
7.		가는 중에 10kg (10kg van) 10kg (10kg (10kg 10kg 10kg 10kg 10kg 10kg 10kg 10kg
8.		Total % Cover of: Multiply by:
	20 = Total Cover	OBL species x 1 =
50% of total cover:(C)	10 Company of the Com	FACW species x 2 =
		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 28+X805+)	10 4 -4	FACU species x 4 =
1. Liquidambor Syracistua	10 7 FAC	UPL species x 5 =
2.	Particular disensity and a compression	Column Totals: (A) (B)
3.		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
5.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
	ACTION OF THE CONTRACT OF T	2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 5	_ 20% of total cover: _ 2	
Herb Stratum (Plot size: 3084 X384		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
THE CONTRACTOR OF THE CONTRACT		Transfer of the second contract of the second
2.		Definitions of Four Vegetation Strata:
3.	production of a complete of a consultation of	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.		more in diameter at breast height (DBH), regardless of
5.	Victoria de la companya del companya del companya de la companya del la companya de la companya	height.
A TELEVISION OF CONTROL OF THE PROPERTY OF THE		Sapling/Shrub - Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.		
8.	water the same and the same statements. The same section is	Herb - All herbaceous (non-woody) plants, regardless
9.	aris and the art of the second of the second of the	of size, and woody plants less than 3.28 ft tall.
10.	Control of the state of the sta	Woody vine - All woody vines greater than 3.28 ft in
11.		height.
[2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4		
12,	O = Total Cover	the same of the sa
	Control of	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: 3054X3054)	15 10 505	
1. Smilax rotandisolia	15 9 FAC	
2. Paramenocissus quinques olia	5 4 FACY	
3.		
	CREATE TO SERVICE THE TRACK TO	
4. The state of th	Single or management of the production to the Contract of the	
5.	The State of the S	Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present? res
Remarks: (If observed, list morphological adaptations below	M).	

epth nches) Color)-2u 109	Matrix	Redox Color (moist)	Features "Type"	Loc² Textu	S	Remarks
ydric Soil Indicator Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Stratified Layers Organic Bodies (5 cm Mucky Mine Muck Presence (1 cm Muck (A9) (Depleted Below I Thick Dark Surfal Coast Prairie Rec Sandy Mucky Mine Sandy Gleyed M Sandy Redox (Stripped Matrix (Stripped	(A4) (A5) A6) (LRR P, T, U) Iral (A7) (LRR P, T, U) A8) (LRR U) LRR P, T) Oark Surface (A11) Ce (A12) dox (A16) (MLRA 150A neral (S1) (LRR O, S) atrix (S4) S6)	RRs, unless otherw Polyvalue Belo Thin Dark Surf Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark St Depleted Dark Redox Depres Marl (F10) (LR Depleted Ochr Iron-Manganes Umbric Surfac Delta Ochric (I Reduced Verti Piedmont Floo	vise noted.) w Surface (S8) (I ace (S9) (LRR S, Mineral (F1) (LRi Matrix (F2) x (F3) urface (F6) Surface (F7) sions (F8) urface (F11) (MLRA 1 se Masses (F12) e (F13) (LRR P, F17) (MLRA 151) c (F18) (MLRA 1 dplain Soils (F19)	Indic LRR S, T, U)	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Piedmont Floodpla Anomalous Bright (MLRA 153B) Red Parent Materi Very Shallow Dark Other (Explain in F	natic Hydric Soils ³ : RR O) LRR S) 18) (outside MLRA 150A,B) iin Soils (F19) (LRR P, S, T) Loamy Soils (F20) al (TF2) is Surface (TF12)
Dark Surface (S7 estrictive Layer (if Type:	observed):			Hyde	ic Soll Present?	Yes No
Depth (inches): emarks:						And the state of t



Upland data point wsuo018_u2 facing south.



Upland data point wsuo018_u2 facing west

WEILA	ND DETERMINATION DATA FO	C . CC .	
Project/Site: ACP	Cib	//County: JUTT 01	K Sameline Date: 11/3/16
Applicant/Owner: DOM I	JIM	//County:	Sampling Date. 11/
Investigator(s): L. Rober	. S. Iosofa se	ction, Township, Range: _	State: VA Sampling Point: WSW0019e-
Landform (hillslope, terrace, etc.)	10		
		al relief (concave, convex	
		784183 Long:	-76 520541 Datum:W6SP
	ounta loam	. 1	NWI classification:
	ns on the site typical for this time of year?	1	(If no, explain in Remarks.)
	or Hydrology significantly dist		al Circumstances" present? Yes No
Are Vegetation, Soil	, or Hydrology naturally proble	matic? (If needed	, explain any answers in Remarks.)
SUMMARY OF FINDINGS	3 - Attach site map showing sa	impling point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Presen	nt? Yes X No		
Hydric Soil Present?	Yes X No	Is the Sampled Area	Yes X No
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes No
Remarks:			
powerline	easement.		
8	TV.		
		Y	
HYDROLOGY			
Wetland Hydrology Indicators	s:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of	fone is required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (L	RR U)	
X Saturation (A3)	Hydrogen Sulfide Odor	(C1)	Moss Trim Lines (B16)
Water Marks (B1)		along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced I	ron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction	in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Rema	arks)	Shallow Aquitard (D3)
Inundation Visible on Aeria			X FAC-Neutral Test (D5)
Water-Stained Leaves (B9))		Sphagnum moss (D8) (LRR T, U)
Field Observations:	V	NIA	
	Yes No Depth (inches):	-20	
	Yes No Depth (inches):		Y
Saturation Present? (includes capillary fringe)	Yes No Depth (inches):	Wetland	Hydrology Present? Yes No
	m gauge, monitoring well, aerial photos, p	revious inspections), if av	railable:
Remarks:			

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

Sampling Point: WSuo019e_w

21/31/4	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X 30++)	% 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)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC:
6.		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover;	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30X30H)		FAC species x 3 =
1. none		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30X30+1)	\/	¹Indicators of hydric soil and wetland hydrology must
1. Panicum virgatum	30 Y FAC	be present, unless disturbed or problematic.
2. Arundinaria gigantea	20 Y FACW	Definitions of Four Vegetation Strata:
3. JUNIUS PHRUSUS	20 Y OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Andropogen virginious	10 N FAC	more in diameter at breast height (DBH), regardless of
5. Saccharum giganteum	5 N FAC	height.
6. Eupatorium capillifolium	10 N FACY	Sapling/Shrub – Woody plants, excluding vines, less
7. Rubus arautus	5 N FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Rhexia Sp.	5 N FACW	Herb - All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10		Monday day All woods since greater than 2.79 ft in
11		Woody vine - All woody vines greater than 3.28 ft in height.
12		
	Total Cover	
50% of total cover: 52	20% of total cover: 2	
Woody Vine Stratum (Plot size: 30 K 30 FF.)		
1. none		
2.		
3.		
4		
5		11. deservation
	= Total Cover	Hydrophytic Vegetation
50% of total cover:	20% of total cover:	Present? Yes No No
Remarks: (If observed, list morphological adaptations bel		
Remarks. (iii observed, list morphological adaptations bet	OW).	
		139

_	-		

Sampling Point: ____

Profile Description: (Des	cribe to the dept	h needed to docu	ment the In	dicator	or confirm	the absence o	of Indicator	rs.)	
	atrix		ox Features	Time	1 = -2	Ta		Demoile	
(inches) Color (moi		Color (moist)	%	Type'	Loc*	Texture		Remarks	
0-50 101KG	711 940	OYRGIU		(,	PL	UL.			
								22.248.0074.27	
¹ Type: C=Concentration, D	=Depletion, RM=	Reduced Matrix, M	S=Masked S	Sand Gra	ains.	² Location: F	PL=Pore Lir	ning, M=Matrix	χ.
Hydric Soll Indicators: (A								natic Hydric S	
Histosol (A1)		Polyvalue B	elow Surface	(S8) (L	RR S. T. U	1 cm Mu	uck (A9) (LI	RR O)	
Histic Epipedon (A2)		Thin Dark S					Jck (A10) (I		
Black Histic (A3)		Loamy Mucl	ky Mineral (F	1) (LRR	0)	Reduce	d Vertic (F1	18) (outside N	ILRA 150A,B)
Hydrogen Sulfide (A4)		Loamy Gley		2)					(LRR P, S, T)
Stratified Layers (A5)		Depleted Ma	The state of the s					oamy Soils (F	F20)
Organic Bodies (A6) (L		Redox Dark		*			A 153B)		
5 cm Mucky Mineral (A Muck Presence (A8) (L		Depleted Da				The second of	ent Materia		2)
Muck Presence (A8) (L 1 cm Muck (A9) (LRR I		Redox Depr Marl (F10) (I				57 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	allow Dark Explain in R	Surface (TF1:	2)
Depleted Below Dark S		Depleted Oc	Charles and the second second	AIRA 14	51)	Other (E	хріані ін к	emarks)	
Thick Dark Surface (A1		Iron-Mangar				T) ³ Indica	tors of hydr	rophytic veget	ation and
Coast Prairie Redox (A					05 50			gy must be pr	
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric						or problemat	
Sandy Gleyed Matrix (S	S4)	Reduced Ve	rtic (F18) (M	LRA 15	0A, 150B)				
Sandy Redox (S5)		Piedmont FI							
Stripped Matrix (S6)		Anomalous	Bright Loamy	y Soils (F	F20) (MLRA	4 149A, 153C,	153D)		
Dark Surface (S7) (LRI							***		
Restrictive Layer (if obser	rvea):								
Type:								X	
Depth (inches):						Hydric Soli P	resent?	Yes _/	No
Remarks:									



Wetland data point wsuo019e_w facing east.



Wetland data point wsuo019e_w facing southeast.

WEILAND DETERMINATION DATA FORM - Atlantic and Guil Coastal Flain Region
Project/Site: ACP City/County: VUTTOIX Sampling Date: 113110
Applicant/Owner: DAMINION State: VA Sampling Point: State: VA Sampling Point:
Investigator(s): L. Roper, S. Iose Fa Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Physor INO (MYNN) Local relief (concave, convex, none): NON Slope (%):
Subregion (LRR or MLRA): LRRT Lat: 36, 784132 Long: -76, 520, 570 Datum: 1659
Soil Map Unit Name: Torhunta loam NWI classification: PSS
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 Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Is the Sampled Area within a Wetland? Yes No
Silviculture disturbances, powerline easement.
HYDROLOGY
HYDROLOGY Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Crocks (PS)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes NoX Depth (inches): NoX
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
,

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

0!'	wsus01	95_W
Sampling	Point:	

20,10,00	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30X30f4)	% Cover Species? Status	
10.010.0		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		That Ac obe; I Acti, of I Ac (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Descent of Deminent Species
5		Percent of Dominant Species That Are OBL, FACW, or FAC:
6		That we obe, thou, of the.
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		OBL species x 1 =
	= Total Cover	
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)		FAC species x 3 =
1. Pinus tarda	70 Y FAC	FACU species x 4 =
2. Magnojia virginiana	E IL FACIA	UPL species x 5 =
	PTALV	Column Totals: (A) (B)
3		(5)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6.		
- Additional production of the second control of the second contro		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
2.0	75 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 31.	5 20% of total cover:	
Herb Stratum (Plot size: 30 X 30 ft		1
1. Arundinaria gigantea	36 Y FACH	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus argutus	10 Y FAC	Definitions of Four Vegetation Strata:
3. CCIPUS CYPENNUS	5 NOBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		height.
T .		
6		Sapling/Shrub – Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb - All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		
11		Woody vine - All woody vines greater than 3.28 ft in height.
		neight.
12	16	
77	45 = Total Cover 9	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: 30 x 30 Pt)		
1. none		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No No
		10-10-10-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Remarks: (If observed, list morphological adaptations belo	ow).	

Sampling Point: ____

Profile Description: (De	scribe to the dep	th needed to docum	nent the i	Indicator	or confirm	n the absence o	f Indicators)	
DepthN	latrix	Redox	x Feature	s		absence o	indicators.)	
(inches) Color (m	0.1	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks	
0-4 JOYK	100	Marie 1997			8/8/15/3	L		
6-20 TOYK	011 99	104R516	2	0	Λ.Λ			_
4 11/	11 10	10/11/0/14			101			
								_
Type: C=Concentration, I	D=Depletion, RM=	Reduced Matrix, MS	=Masked	Sand Gra	ins.	² Location: P	L=Pore Lining, M=Matrix.	_
Hydric Soil Indicators: (Applicable to all	LRRs, unless other	wise note	d.)		Indicators fo	or Problematic Hydric Soils ³ :	_
— Histosol (A1)		Polyvalue Bel	ow Surfac	e (S8) (LF	RR S. T. U		ck (A9) (LRR O)	
Histic Epipedon (A2)		Thin Dark Sur	face (S9)	(LRR S, T	r, U)	S (1)	ck (A10) (LRR S)	
Black Histic (A3)		Loamy Mucky	Mineral (F1) (LRR	0)	Reduced	Vertic (F18) (outside MLRA 150)	Δ B)
Hydrogen Sulfide (A4)		Loamy Gleyed	Matrix (F	-2)	•	Piedmont	t Floodplain Soils (F19) (LRR P, S	T)
Stratified Layers (A5)	-	Depleted Matr				Anomalou	us Bright Loamy Soils (F20)	, ,,
Organic Bodies (A6) (I	.RR P, T, U)	Redox Dark S	urface (F6	3)		(MLRA	153B)	
5 cm Mucky Mineral (A	(/) (LRR P, T, U)	Depleted Dark					ent Material (TF2)	
Muck Presence (A8) (I 1 cm Muck (A9) (LRR	. KK U)	Redox Depres)		Very Shall	llow Dark Surface (TF12)	
Depleted Below Dark S	Curfoce (Add)	Marl (F10) (LR				Other (Ex	(plain in Remarks)	
Thick Dark Surface (A	ourlace (ATT)	Depleted Ochr	ic (F11) (I	MLRA 151	1)			
Coast Prairie Redox (A		Iron-Manganes	se Masse	s (F12) (L	RR O, P,		ors of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) (LRROS)	Umbric SurfaceDelta Ochric (F	E (F13) (L	KK P, I,	u)	wetlan	d hydrology must be present,	
Sandy Gleyed Matrix (S4)	Reduced Vertic	- 1/) (WILE	(A 151)	A 450E)	unless	disturbed or problematic.	
Sandy Redox (S5)	/	Piedmont Floo	dolain So	ile (E10) (I	A, 150B)			
Stripped Matrix (S6)		Anomalous Bri	aht Loam	113 (F13) (I	VILITA 145	ла) N 149A, 153C, 15		
Dark Surface (S7) (LRI	R P, S, T, U)		giit Loain	y Gons (F2	(IVILKA	149A, 153C, 15	330)	
Restrictive Layer (if obser	ved):							
Туре:								
Depth (inches):						Hydric Soll Pre		
Remarks:						nyuric Soil Pre	esent? Yes X No	
								- 1
	,							



Wetland data point wsuo019s_w facing south.



Wetland data point wsuo019s_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City/County: Suff 0 K Sampling Date: 11 3 15 Applicant/Owner: DOMINION State: VA Sampling Point: WCV6 0 I Investigator(s): ROPOR, S. ISSET Section, Township, Range: NA Landform (hillslope, terrace, etc.): PROVING CASEMENT Local relief (concave, convex, none): NOVE Slope (%): 0-2 Subregion (LRR or MLRA): 1 RRT Lat: 36.784200 Long: 76.520682 Datum: NGS
Soil Map Unit Name: Tochunta loam NWI classification: UPLAND
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 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: No Is the Sampled Area within a Wetland? Yes No
fill material for road
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) — Aquatic Fauna (B13) — Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No _X Depth (inches): _N/A
Water Table Present? Yes No Depth (inches): Y
Saturation Present? Yes No Depth (inches): > 4 Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Described Face (Stream gauge, mornioring wen, actial priores, previous inspections), it available.
Remarks:
Could not auger below 4" due to gravel road

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

wsuo019_a

Tree Stratum (Plot size: 30 × 30 ft)		Dominant		Dominance Test worksheet:
1. NONE		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: (B)
4. 5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7 8				Total % Cover of:Multiply by:
		= Total Co	/er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30 + 1)	_ 20% 01	total cover		FAC species x 3 =
1. Liayidambar Styram flu	. 6	Y	FAC	FACU species x 4 =
2 PINUS tapaa	-6	-	THA	UPL species x 5 =
		4_	PAC	Column Totals: (A) (B)
3				(7)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
5	10	= Total Cov	rer _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 30 x 30 ft) 1. Eupatorium capillifolium	15	Y	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Hrundinaria gigantea	20	1	FAC	Definitions of Four Vegetation Strata:
3.LOSpedeza cunocita	20	Y	FACU	beilinitelis of Four Vogetation Chara.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	55 :	= Total Cov	er	
50% of total cover: 27.5	20% of	total cover	11	
Woody Vine Stratum (Plot size: 30X 3071)				
1. none				
2				
3				
4				
5.				
J	0	- Tetal Car		Hydrophytic Vegetation
E00/ -f4-4-1		= Total Cov	2000	Present? Yes No No
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations below	v).			

	W5U001	9	-a
Sampling	Point:		1000000

	n the absence of Indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
U-4 104k3/2 100	LS >30% Un covere
	sand gravpl
	OWOLONT
	100011
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) — Depleted Matrix (F3) — Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) 5 cm Mucky Mineral (A7) (LRR P, T, U) Pepleted Dark Surface (F7)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Redux Depressions (F6) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	Other (Explain in Remarks)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P.	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	·
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	19A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	RA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	_
Restrictive Layer (if observed):	
Type: 6 km2	1/
	X
Depth (inches): 4 17 UNES	Hydric Soil Present? Yes No
Remarks: Could not auger below 4 inche	



Upland data point wsuo019_u facing north.



Upland data point wsuo019_u facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Sus	FOIK	Sampling Date: 2/1/15
Applicant/Owner: DOMINIO	Chyroddiny.	State: VA	Sampling Point: W Sup OZOE
Investigator(s): ESI- M. Smith, K. MURPH	VEC Coding Township (Ones NA	
		range:	Ve Slope (%): 0 - 2
Landform (hillslope, terrace, etc.): Arainageway	Local relief (concave	, convex, none):	Slope (%): 2
	Lat: 36,77674	Long: -/0,33100	Datum: 1~65 8
Soil Map Unit Name: TOY hunta wood	n	NWI classifica	ation: PEM
Are climatic I hydrologic conditions on the site typical for th	is time of year? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Ar	e "Normal Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hydrology		needed, explain any answer	
SUMMARY OF FINDINGS - Attach site map		locations, transects,	important features, etc.
N. J. A. E. V. a. A. E. Branchi	No la the Samul		/
,	No Is the Sampl	1/	
.,,4	No within a Wet	land? Yes	No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			ors (minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)	Surface Soil (
Surface Water (A1) Aquatio	Fauna (B13)		etated Concave Surface (B8)
High Water Table (A2) Marl De	eposits (B15) (LRR U)	Drainage Pat	
	en Sulfide Odor (C1)	Moss Trim Lin	
	ed Rhizospheres along Living Ro		
	ce of Reduced Iron (C4)	Crayfish Burn	
	Iron Reduction in Tilled Soils (C		sible on Aerial Imagery (C9)
	uck Surface (C7)	Geomorphic I	
	Explain in Remarks)	V FAC-Neutral	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			oss (D8) (LRR T, U)
Field Observations:			
1	epth (inches): 1		
Water Table Present? Yes No De	epth (inches): SuvEace		./
Saturation Present? Yes No De	epth (inches): SU(FACE)	Wetland Hydrology Presen	t? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspection	ns), if available:	
Remarks:			

Sampling Point: NSUPOZOE-L

2.51404		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30F4 X 30F4)	% Cover	Species?	Status	Number of Dominant Species That Are OBL. FACW. or FAC: 2 (A)
1. None Present				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				
7				Prevalence Index worksheet:
8				
	0	= Total Co	/er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+X305+)				FAC species x 3 =
1. None Present				FACU species x 4 =
2				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
0	0	= Total Co	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:				Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 305+ X305+		total core.		1. If a top of hadden all and wallend hadrology much
1. Eleocharis se	70	V	≥FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Saccharum gigonteum	20	N	FACW	Definitions of Four Vegetation Strata:
3. Andropogun glomovatus	20	7	FACW	995535555
	3	7	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. And rupo gun Virginicus	-70	-		more in diameter at breast height (DBH), regardless of height.
5. Arundinaria gigontea	70		FACH	neight.
6. Phragmites australis	5	N	FACW	Sapling/Shrub - Woody plants, excluding vines, less
7. Solidago Sp.	25	N	UNK	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B. Rubus argutus	20	N	FAC	Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	132	= Total Co	ver	
50% of total cover: 116	20% of	total cover	46.4	
Woody Vine Stratum (Plot size: 30 F1 X 30 F+				
1. none Present				
3				
2.				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Yes No
50% of total cover:	20% of	total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

Sampling Point: WSUP020e-W

	cription: (Describe	to the depth				or confirm	the absence of	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type	Loc²	Texture	Remark	s
0-20	2.543/1	100					FSL		
			70.10						
Type: C=C	Concentration, D=De	oletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: Pl	L=Pore Lining, M=M	atrix.
lydric Soil	Indicators: (Applic	cable to all LR	Rs, unless othe	rwise noti	ed.)		Indicators fo	r Problematic Hydi	ic Solls³:
_ Histoso			Polyvalue Be					ck (A9) (LRR O)	
	pipedon (A2)		Thin Dark S					ck (A10) (LRR S) Vertic (F18) (outsid	MIRA 150A.E
	listic (A3) en Sulfide (A4)		Loamy Much Loamy Gley			. 0)		t Floodplain Soils (F	
	d Layers (A5)		Depleted Ma				_	us Bright Loamy Soi	ls (F20)
	Bodies (A6) (LRR F		Redox Dark				(MLRA		
	ucky Mineral (A7) (L resence (A8) (LRR (Depleted Da Redox Depr					ent Material (TF2) illow Dark Surface (*	ΓF12)
	uck (A9) (LRR P, T)	7	Marl (F10) (I		-,			(plain in Remarks)	myysi430, 5 . 6
	d Below Dark Surface		Depleted Oc				9		
	ark Surface (A12)		Iron-Mangar					ors of hydrophytic ve nd hydrology must b	
_	Prairie Redox (A16) (Mucky Mineral (S1) (Umbric Surfa Delta Ochric			, 0)		s disturbed or proble	
_	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)			
100000000000000000000000000000000000000	Redox (S5)		Piedmont FI						
	d Matrix (S6)	C T III	Anomalous	Bright Loar	ny Soils (i	F20) (MLR	RA 149A, 153C, 1	53D)	
	urface (S7) (LRR P, Layer (if observed)						T		77.4
Туре:			_						
	nches):		_				Hydric Soll Pr	resent? Yes	No
Remarks:									



Wetland data point wsup020e_w facing south.



Wetland data point wsup020e_w facing north.

Photo Sheet 1 of 3

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

ACP	City/County: SUSSOIIS Sampling Date: 17/1/15
Project/Site: ACP	City/County: 5088011
Applicant/Owner: DOMINION	State: VA Sampling Point: WSU p 620F_v
Investigator(s): ESI-M. Smith, K. MUVPNYEY	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Oranage Way	Local relief (concave, convex, none): CONCOVE Slope (%): 0-2
Subregion (LRR or MLRA): LRRT Lat: 36.7	1744 Long: -16, 51438 Datum: W65 8
Soil Map Unit Name: TOY hunta 1000	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norma! Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B13	
High Water Table (A2) Mari Deposits (B15)	
✓ Saturation (A3)Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduct	
Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in Re	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? YesNo Depth (inches):): <u>NA</u>
Water Table Present? Yes No Depth (inches)	: 16"
Saturation Present? Yes No Depth (inches)	: 101 Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s. previous inspections), if available:
Describe recorded bala (stream gauge, memoring went asset prior	
Remarks:	
	1

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

Sampling Point: WSup 020f-W

Tree Stratum (Plot size: 30+ XI Set) Seciety Secie
Total Number of Dominant Species Across All Strata: Use
Percent of Dominant Species That Are OBL, FACW, or FAC: LOO (A/B)
Fercial Column Factor Fercial Factor Fercial Factor Fercial Column Factor Fercial Factor
7. 8. 17 = Total Cover 50% of total cover: \$\frac{1}{2}\times \frac{1}{2}\times \fra
8. Sapling/Shrub Stratum (Plot size: 30+ XI SAF) 1. Li Auridampay Stratum (Plot size:
17
Sapling/Shrub Stratum (Plot size: 30+ X1 Str.) 20% of total cover. 3. 4 FACW species X3 = FAC species X3 = FACW species X4 = FACW species Y4 = FACW spec
Sapling/Shrub Stratum (Plot size: 30+ XI SF+) 1. Liquidamon Station (A) Serial
1. Liquidance Stratum (Plot size: 30 + X S S S S S S S S S
2
3. Magnotia virginiana 2 N FACW Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Facility of the prevalence Index is 50% Facility of the prevalence Index is 50. Facility of the
Hydrophytic Vegetation Indicators: 1
6
7
8
Tree - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft in height. Toward of total cover: 35 of total cover: 35 of total cover: 35 of total cover: 36 of total cover: 36 of total cover: 37 of total cover: 37 of total cover: 38 of total cover: 39 of tot
Herb Stratum (Plot size: 30+ X 1 S6+) 1. AYUNDAN ON I OR GIGAN COMMENT ON FACW 2. No CCINIUM COMMENT ON FACW 3.
Herb Stratum (Plot size: 30F+X 1 56F+) 1. A YUNDAN ON IA GIG ON HEACY 1. A YUNDAN ON IA GIG ON IA YUNDAN ON IA YUNDAN ON IA GIG ON IA YUNDAN ON IA YU
2. MacCinium Corganos Sun IV IN FRC 5 3
2. MacCinium Corganos Sun IV IN FRC 5 3
4
height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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. TO = Total Cover 20% of total cover: 14 Woody Vine Stratum (Plot size: 30 + X 5 + 4)
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. 8
than 3 in. DBH and greater than 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. TO = Total Cover 50% of total cover: 35 20% of total cover: 14 Woody Vine Stratum (Plot size: 30+ X156+)
9
10
12
50% of total cover: 35 20% of total cover: 14 Woody Vine Stratum (Plot size: 30 + x15 + 1)
50% of total cover: 35 20% of total cover: 14 Woody Vine Stratum (Plot size: 30 + X15 + 1)
Woody Vine Stratum (Plot size: SOFT XIS FT)
1. Smilax rotundifolia 10 y FAC 2
2
3
4
5 Hydrophytic
Vegetation Present? Yes No No
50% of total cover: 20% of total cover: Fresent?
Remarks: (If observed, list morphological adaptations below).

Sampling Point: WSUP0204_W

	cription: (Describe	to the depth				or confirm	the absence	of Indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type	Loc²	Texture	Re	marks	
0-17	2,542.5/1	100	Odd (mod)				ML			
- 12	- / /		104R5/1	30	C	M	SCL			
12-15	104R3/1		1 4			PL	CL			
15-20	104R3/1	80	104RS/8	20		FL				
¹ Type: C=0	Concentration, D=Dep	oletion, RM=F	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	*Location:	PL=Pore Lining. for Problematic	M=Matrix.	
Hydric Soll	Indicators: (Applic	able to all L								
Histoso			Polyvalue Be					luck (A9) (LRR O		
	pipedon (A2)		Thin Dark Su					luck (A10) (LRR : ed Vertic (F18) (o		50 A. F.)
	listic (A3)		Loamy Muck			(0)		ont Floodplain So		
	en Sulfide (A4) ed Layers (A5)		Depleted Ma		r2)			lous Bright Loam		, ,
	c Bodies (A6) (LRR F	T 11)	Redox Dark		6)			RA 153B)		
	lucky Mineral (A7) (L		Depleted Da				Red P	arent Material (TF		
	Presence (A8) (LRR L		Redox Depre				Very S	hallow Dark Surfa	ace (TF12)	
	luck (A9) (LRR P, T)	,	Marl (F10) (L	RR U)			Other	(Explain in Remai	ks)	
Deplete	ed Below Dark Surface	e (A11)	Depleted Oc				2			
	Oark Surface (A12)		Iron-Mangan					ators of hydrophy		d
	Prairie Redox (A16) (', U)		land hydrology m ess disturbed or p		
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric			DA 4500\		ess disturbed of p	oblematic.	
	Gleyed Matrix (S4)		Reduced Ve Piedmont Flo							
	Redox (S5) d Matrix (S6)		Anomalous I					. 153D)		
	urface (S7) (LRR P,	S.T.UI		Dright Loui		. 20) (, ,		
	Layer (if observed)								/	
Type:									/	
	nches):						Hydric Soil	Present? Yes	No	
Remarks:										
Remarks.										
	38									



Wetland data point wsup020f_w facing east.



Wetland data point wsup020f_w facing south.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: SUF 8	FOIK	Sampling Date: 12/1// 5
Applicant/Owner: DOM (A)OO		State: VA	Sampling Point: WSup 020_U
Investigatorial EST-M, SMITH, IS, MUTPHVES	Section Township Ran	ce. NA	
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, co	navex none): CONV	Slope (%): 4-6
Subregion (LRR or MLRA): LRRT Lat:36, 7	7737	-76, SI44	7 Datum: 1265 8H
Soil Man Unit Name: TOY hunta 1000		NWI classific	potion: NA
Out Web One Promote	1/		
Are climatic / hydrologic conditions on the site typical for this time of ye		(If no, explain in F	
Are Vegetation, Soil, or Hydrology significantly			present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If nee	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point lo	cations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled within a Wetland		No
Remarks: fill material			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1			itterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim L	
	heres along Living Roots	The second secon	Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bu	
	ction in Tilled Soils (C6)		risible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in F	Shallow Aqu		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)			moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches	s): NA		
Water Table Present? Yes No Depth (inches	51: 720		
Saturation Present? Yes No Depth (inches		land Hydrology Prese	nt? Yes No
(includes capillary fringe)			·
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections)	, if available:	
Remarks:			
Tremand.			
8			

306+VICE	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 f+ X 1 Sf+) 1. A Cer rubrum	% Cover	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Tillodendron turififeron	20	7	FACO	Total Number of Dominant Species Across All Strata: (B)
4				
5				That Are OBL, FACW, or FAC: 56 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
	30	= Total Co	ver	FACW species x 2 =
50% of total cover: 15	_ 20% of	total cover	6	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30F+X15F+	10	\/	FACU	FACU species x 4 =
1. Liviodendon tuipifera	10	-\frac{1}{1}		UPL species x 5 =
2. FIEX OPACA	5	N	FAC	Column Totals: (A) (B)
3. QUETCUS nigra	70	<u>N</u>		
4. Fagus grandiforia	10	7	FACU	Prevalence Index = B/A =
5. Cletura alniforia	15	7	FACW	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	11.6			3 - Prevalence Index is ≤3.01
22.6		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 22.5	20% of	total cover	-1_	
Herb Stratum (Plot size: 3/18+ X158+)	20	1/	- No. 1. 1	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	20	7	FACW	be present, unless disturbed or problematic.
2 VIOLO SOPOPIA	2	_N	FAC	Definitions of Four Vegetation Strata:
3. EUNONGMOUS americanas	5	N	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Allium canadense	10	<u> </u>	FACU	more in diameter at breast height (DBH), regardless of
5. Chasmonthium laxum		_ ~	FACW	height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in height.
12.				
	42	= Total Co	ver	
50% of total cover: 21	20% of	f total cover	8,4	
Woody Vine Stratum (Plot size: 305+ X 15F+)				
1. Smilax rotundisolia	15	Y	FAC	
2 Gelsemium sempervivens	5	4	FAC	
3.		/		
4				
5				Hydrophytic
0	20	= Total Co	ver	Vegetation
50% of total cover: 10		f total cove	/ 1	Present? Yes No
Remarks: (If observed, list morphological adaptations below		Total core		
Remarks. (If observed, list ma phagical adaptations below	w).			

Sampling Point: WSap 020- U

Profile Des	cription: (Describe	to the dept	h needed to docur	nent the i	ndicator	or confirm	the absence of In	dicators.)	
Depth	Matrix Color (moist)	%	Redo Color (moist)	x Feature:	Type	Loc²	Texture	Remarks	
(inches) 0 - 6	2.54 5/4	100	Color (moist)	70	Туре		FSL	Homan	
c 11	104R3/1	50	104R6/1	40			SCL		
6-16	104171	30		10					
	10. 02/1		104R6/6	10					
16-20	104R3/1	100					CL		
	1			. —					
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.		Pore Lining, M=Matrix	
Hydric Soil	Indicators: (Applic	able to all						Problematic Hydric S	ons:
Histosol			— Polyvalue Be — Thin Dark Su				1 cm Muck 2 cm Muck		
	pipedon (A2) istic (A3)		Loamy Muck				Reduced Ve	ertic (F18) (outside M	LRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	-		,	Piedmont F	loodplain Soils (F19)	LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma					Bright Loamy Soils (F	(20)
	Bodies (A6) (LRR P		Redox Dark Depleted Da	3.0			(MLRA 1:	Material (TF2)	
	ucky Mineral (A7) (LF resence (A8) (LRR U		Redox Depre				Very Shallo	w Dark Surface (TF12	2)
	ick (A9) (LRR P, T)	•	Marl (F10) (L	.RR U)			Other (Expl	ain in Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc				T) 3Indicators	of hydrophytic veget	ation and
	ark Surface (A12) rairie Redox (A16) (I	MI PA 1504	Iron-Mangan					hydrology must be pro	
	Mucky Mineral (S1) (I		Delta Ochric			, -,		listurbed or problemat	1
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo	odplain S	ioils (F19)	(MLRA 14	9A)	ID)	1
	d Matrix (S6) Irface (S7) (LRR P, \$	T II)	Anomalous	Bright Loai	my Solls (F20) (WLK	A 149A, 153C, 153	,,,	
	Layer (if observed):								
Type:								./	
Depth (in	ches):						Hydric Soll Pres	sent? Yes	No
Remarks:									
8:11 /	naterial	plese	at (6 in	ches)					
, , ,									



Upland data point wsup020_u facing east.



Upland data point wsup020_u facing west.

Photo Sheet 3 of 3

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: ScaFFO//
State: VA Sampling Point: Wswo 009f_w _ Sampling Date: 7/15/15 Project/Site: A CP Applicant/Owner: Dominion Investigator(s): EST-K. Markham, K. Murphrey Section, Township, Range: NA Landform (hillslope, terrace, etc.): deplession Local relief (concave, convex, none): COncave Subregion (LRR or MLRA): LRRT Soil Map Unit Name: _ TOMOHEG NWI classification: PFO 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) Aguatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Sediment Deposits (B2) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? 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:

	Absolute	Dominani	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30f+x30f+)	<u>% Cover</u>	Species	? Status	Number of Dominant Species
1. Liquidamber Stgracistua	50	_/_	FAC	That Are OBL, FACW, or FAC: (A)
2			·	
3.				Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	<u>, 50</u>	= Total Co	ver	OBL species x 1 =
50% of total cover: _ えぐ	20% of	f total cove	r: (C)	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 308+X308+)				FAC species x 3 =
1. FIRX OPOCA	15	\mathcal{Y}	FAC	FACU species x 4 =
2. Magnolia Viganiana	lO	$\overline{\checkmark}$	FACW	UPL species x 5 =
3. Alundinaria gigarrea		$\overline{\mathbf{x}}$	FACW	Column Totals: (A) (B)
	10	$\overline{}$	FAC	,
4. Asimina triloba	·			Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	45	= Total C	over _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>22.</u>	5 20% 0	if total cove	er 4	E Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 308+ X 308+				1
1. Kubus avantas	5	Y	FAC	¹Indicators of hydric soil and wetland hydrology must
	10	· —		be present, unless disturbed or problematic.
2. Rubus hispidus		- —	FACW	Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				of size, and woody plants less than 5.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11.	_ 			height.
12				.
		_ = Total C	Cover ->	
50% of total cover:	<u>S</u> 20%	of total cov	/er:	
Woody Vine Stratum (Plot size: 308+X305+				
1. Lonicera Jalonica	5	\succ	FAC	
2. Vitis rutundifolia	<u> </u>		FAC	•
3. Smilax alouca	_ 	- 	FAZ	•
	_ ~ ~	~~	- [-10	-
4. Smilox rotundicolia	_ 		- 1-NC	-
5. Bignonia capteologia			FHC	- Hydrophytic
	<u> </u>	_ = Total (Cover	Vegetation
50% of total cover:	b 20%	of total co	ver: 3 . 2	Present? Yes No
Remarks: (If observed, list morphological adaptations b				- 1
	510 44).			
1				

Profile Desc	ription: (Describe t	to the depti	needed to docur	nent the indica	tor or confirm	the absence of	indicators.)		
Depth	Depth Matrix Redox Features								
(inches)	Color (moist)	(5)	Color (moist)		pe ¹ Loc ²	<u>Texture</u>	Remarks		
<u>0-6</u>	10482/1			· - ,	 <u></u>	Wr -			
6-20	109R4/2	80 1	04R2/2	<u> </u>		_L C	•		
			104R4/6	5 (\sim	<u> </u>			
			7						
			·						
							-		
1Tyrne: C=C	oncentration, D=Dep	lotion DM=	Podupod Matrix M	- ——— —— 	d Crains	21 000000000000000000000000000000000000			
	Indicators: (Applica				o Granis.	Indicators for	.=Pore Lining, M=Matrix. r Problematic Hydric Soils³:		
☐ Histosol		abic to all E		-	0) // DD 0 T /	 	•		
_	pipedon (A2)			elow Surface (S urface (S9) (LRI			k (A9) (LRR O)		
	istic (A3)			y Mineral (F1) (2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)			
	en Sulfide (A4)		i gamy Gleve	ed Matrix (F2)	LICIT O)		Floodplain Soils (F19) (LRR P, S, T)		
	d Layers (A5)		Depleted Ma				us Bright Loamy Soils (F20)		
	Bodies (A6) (LRR P	, T, U)		Surface (F6)		(MLRA			
	ucky Mineral (A7) (LF		_	rk Surface (F7)			ent Material (TF2)		
·	resence (A8) (LRR U		Redox Depre				llow Dark Surface (TF12)		
	uck (A9) (LRR P, T)		Marl (F10) (I				(plain in Remarks)		
Deplete	d Below Dark Surfac	e (A11)		hric (F11) (MLF		•	•		
	ark Surface (A12)			nese Masses (F		, T) ³ Indicate	ors of hydrophytic vegetation and		
	rairie Redox (A16) (N			ace (F13) (LRR		wetlar	nd hydrology must be present,		
	Mucky Mineral (S1) (L	LRR O, S)		(F17) (MLRA 1	•		s disturbed or problematic.		
	Gleyed Matrix (S4)		_	rtic (F18) (MLR		•			
. —	Redox (S5)			oodplain Soils (
	d Matrix (S6)	. T 11	<u>□</u> Anomalous	Bright Loamy S	oils (F20) (MLF	RA 149A, 153C, 1	53D)		
	uface (S7) (LRR P, S Layer (if observed):								
	Layer (ii observed).	•							
Type:		•							
Depth (ir	iches):					Hydric Soil P	resent? Yes No		
Remarks:									
1									
						•			
1									
1									
1									
1									
1									
1									

2.



Wetland data point wsuo009f_w facing east.



Wetland data point wsuo009f_w facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City/County: S	SAFFUK Sampling Date: 12/1/15
Applicant/Owner: DOM 1000	State: VA Sampling Point: WSuo 009F
	hip, Range: NA
Investigator(s): Color Maria	
	cave, convex, none): CONCAVE Slope (%): 0-2
	Long: 76.50730 Datum: W65 8
Soil Map Unit Name: Belhaven muck	NWI classification: PFO
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 p	
Hydrophytic Vegetation Present? Yes No le the Sa	
Hudde Sail Procent?	impled Area
Wetland Hydrology Present? Yes No within a	Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	그리다 이 교회에 들어 있는 사람들이 되는 사람들이 되었다. 그리고 아내는 사람들이 얼마를 하면 살아 없는 것이 되었다. 그런
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soil	한다는 전에 살을 잃었다. 그리고 있는 이번 10년
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)	Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9)	Spriagram moss (Do) (Error 1, O)
Field Observations: Surface Water Present? Yes No Depth (inches):	
[- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): 100	Wettand Hydrology Frederic. 100
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:	

Time Stratum (Plot size 1944 2041) 34 Cover 350 5 6 6 7 7 6 7 7	2001 V2164		Dominant		Dominance Test worksheet:
Total Number of Dominant Species Across All Stratus Total Number of Dominant Total Number of D	Tree Stratum (Plot size: 3084 X 3084)	% Cover			
That Are OBL, FACW, or FAC:	2. ALET TUBRUM	15	Y	FAC	
Prevalence index worksheet: Multiply by.					
Total % Cover of:	6.				Prevelence Index worksheet:
Sapiling/Shrub Stratum (Plot size: 25+1x305-) Solidat cover: 28.5 20% of total cover: 9 FACW species x 2 =	7.	4.6		10 TO 1 TO 10 TO 1	10.7 15 AL 16 GA 16 GA 16 GA 16 GA 16 GA 16 GA 17 GA
FACW species x 2 = FACW species x 3 = FACW species x 3 = FACW species x 4 = FACW species x 5 =	8.				AS A CONTRACTOR OF THE STATE OF
Solitor Soli		45 :	= Total Cov	er	
Sapling Shrub Stratum (Plot size 300+1/300+1) S N FACU	50% of total cover: 22.				
Manual Serchina Se	Sapling/Shrub Stratum (Plot size: 3051 X 3081)			Paper St.	
2	1 Plunus Serutina		N	FACU	
## Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Y - Dominance Test is >50% of total cover: 20 20% of total cover: 7 Problematic Hydrophytic Vegetation Explain Problematic Hydrophytic Vegetation Explain Problematic Hydrophytic Vegetation Problematic Hydrophytic Vegetation Explain Problematic Hydrophytic Vegetation Problem	2 Ilex ofaca	15	У	FACU	
4. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1. Rapid Test for Hydrophytic Vegetation 2. Dominance Test is >500% 3. Prevalence Index is \$5.0.1 Problematic Hydrophytic Vegetation (Explain) 4. Problematic Hydrophytic Vegetation (Explain) 1. Argundance of total cover: 2. Definitions of Four Vegetation functions of problematic. Definitions of Four Vegetation Strate: 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 3.28 ft in meight. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody Vine Stratum (Plot size: 30+ X30+) 1. Dance of Jordan Cover: 50% of total cover: 50% of total cover: 50% of total cover: 50% of total cover: 20	3 ACEC VUNYUM	15	У	FAC	Column Totals: (A) (B)
Hydrophylic Vegetation Indicators: 1 - Rapid Test for Hydrophylic Vegetation 2 - Dominance Test is >50% of total cover: 3 - Prevalence Index is \$3.0' - Problematic Hydrophylic Vegetation 1 - Rapid Test for Hydrophylic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0' Problematic Hydrophylic Vegetation (Explain) 1 - A Y U A O A A Y I O O O O O O O O O O O O O O O O O O			N	FAC	Prevalence Index = B/A =
6. 7. 8. 8. 9. 1- Rapid Test for Hydrophytic Vegetation 7. 2- Dominance Test is >50% 2- Dominance Test is >50% 3- Prevalence Index is \$3.01 Problematic Hydrophytic Vegetation 1. Arundinaria 9 ig porter 40 Y FACW 1. Arundinaria 9 ig porter 40 Y FACW 2. 3. 1- Problematic Hydrophytic Vegetation 1. Arundinaria 9 ig porter 40 Y FACW 2. 2- Definitions of Four Vegetation 5 frata: 1. Tree — Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 1. Sapling/Shrub — Woody plants, excluding vines, 1 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 1. Sapling/Shrub — Woody plants, excluding vines, 1 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 1. Sapling/Shrub — Woody plants, excluding vines, 1 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of size, and woody plants less than 3.28 ft (1 in) tall. 1. Herb — All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 1. Woody vine — All woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 ft in height. 1. Sapling/Shrub — Woody vines greater than 3.28 f	The later was an allower and the reserved of the second and the second s				ACCOUNTS OF CONTRACTOR AND
7. 8. 2- Dominance Test is >50% 8. 3- Prevalence Index is \$3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) 1. A Y U A D A Y D D D D D D D D D D D D D D D D	- [18] 유명의 교육 오스스에서 경찰, 18 전 문학에 전하여 열차 경찰, 20년 시간 사람들이 20년 전 18년				
8					
Problematic Hydrophytic Vegetation (Explain)					
Herb Stratum (Plot size: 306+ x 364) 1. A Y U A CARA O 9 9 9 0 0 + 20 40 Y FACW 1. A Y U A CARA O 9 9 0 0 0 + 20 40 Y FACW 2. 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 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. Woody vine Stratum (Plot size: 36+ x 364+) LONICETE JAPPORTO		40 .	- Total Cov	er	
Herb Stratum (Plot size: 30F+ X 30F	50% of total power: 27	20% of	total cover	8	— Problematic Hydrophytic Vegetation (Explain)
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 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 34 × 306 +) Lonicero Japonico Jayonico Ja	Herb Stratum (Plot size: 308+ X 306+)		total cover		¹ Indicators of hydric soil and wetland hydrology must
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 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. Woody Vine Stratum (Plot size: 33+ x304+) Loncero Johnson Deposito Size, and woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes No	1. Arundinavia sigentea	40	<u> </u>	FACW	1532/3237 (30) (00) (30) (30) (30) (30) (30) (30)
## Aca and the stratum (Plot size: 304 x 304 x) Moody Vine Stratum (Plot size: 304 x 304 x) Long Cere Lappanica 20 y FACA	2.	E Paris Library	A region of the second		Definitions of Four Vegetation Strata:
height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	TO SEE A SEE A SEE AS A SEE AS A SEE AS A SEE AS A SECURITY OF THE SECURITY OF				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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. Woody Vine Stratum (Plot size: 32+ x30+1) Lonicara Japanea 20 y FACA Sapling/Shrub – Woody plants, excluding vines, less than 3.28 ft (1 m) tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Fac Hydrophytic Vegetation Fesent? Yes No	 ■ CONTROL - ACCOUNT OF THE PROPERTY OF THE PROP				
than 3 in. DBH and greater than 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. Woody vine Stratum (Plot size: 30+ x30+) Lonicar Japonica 20 y FACU Somilax rotandiforia 15 y FAC Vitis rotandiforia 5 N FAC Hydrophytic Vegetation Present? Yes No	THE REPORT OF THE PARTY OF THE				
8	The following is a state of the contract of th				
10	 INTERPORT OF A CONTROL OF A REPORT OF A STATE OF A ST				
12	10				TO DESCRIPTION OF THE SEASON O
Hydrophytic	The Control of the Co				neight.
50% of total cover: 20 20% of total cover: 8 Woody Vine Stratum (Plot size: 30ft X30ft) 1. LONICERA JAPONICA 20 Y FACU 2. SMIAX RUTUNDIFOLIA 15 Y FAC 3. VITIS COTUNDIFOLIA 5 N FAC 4	12.	40	T.1.10		A VIII CONTRACTOR OF THE CONTR
Woody Vine Stratum (Plot size: 3084 X3064) 1. LONICERA JAPONICA 2. SMIAX ROTUNDIFOLIA 3. VITIS COTUNDIFOLIA 5. N FAC 4. SOW of total cover: 20 20% of total cover: 8 Hydrophytic Vegetation Present? Yes No	2111 2171 2071				
1. Lonicera Japonica 20 y FACU 2. Smilax rotandiforia 15 y FAC 3. Vitis rotandiforia 5 N FAC 4	[17] [18] [18] [18] [18] [18] [18] [18] [18	20% of	total cover		
2. Smilax retandiforia 15 y FAC 3. Vitis retandiforia 5 N FAC 4	Woody Vine Stratum (Plot size: 300 X 500 Y)	20			Section 1980 Committee and the section of the secti
3. Vitis rotandiforia 5 N FAC 4		20	<u> </u>		
4		1>	У		
50% of total cover: 20% of total cover: 8 Vegetation Present? Yes No	3. VITIS Extundifolia	5	N	FAC	
50% of total cover: 20% of total cover: 8 Vegetation Present? Yes No	4.				
50% of total cover: 20% of total cover: 5 Present? Yes No	5.	11.5			
50% of total cover: 20% of total cover:				-	
Remarks: (If observed, list morphological adaptations below).	50% of total cover: 20	20% of	total cover		Present res no
	Remarks: (If observed, list morphological adaptations belo	w).			

	cription: (Describe t	to the dep				or confir	m the absence of In	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type	Loc²	Texture	Remarks
0-3	104R3/2	100				FORTER	L	
3-6	10482/1	100				Charles and the	FSL	
6-14	104R3/2	90	104R4/6	10	-	PL	ESI	
114 20		10		10		PL	SZL	
14-20	104R3/2	40	104R4/6	10				
¹Type: C=C	oncentration, D=Depl	etion RM	=Reduced Matrix, MS	S=Masked	Sand G	rains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	wise not	ed.)		Indicators for I	Problematic Hydric Solis ³ :
Histosol			Polyvalue Be			LRR S, T,	U) 1 cm Muck	(A9) (LRR O)
The state of the s	pipedon (A2)		Thin Dark Su				2 cm Muck	(A10) (LRR S)
The William Control of	istic (A3)		Loamy Muck	y Mineral	(F1) (LR	R O)		ertic (F18) (outside MLRA 150A,B)
CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	en Sulfide (A4)		Loamy Gleye		F2)		The second of th	Toodplain Soils (F19) (LRR P, S, T)
A Particular Section (Section)	d Layers (A5)		Depleted Ma		-01			Bright Loamy Soils (F20)
and march and a finish of the late.	Bodies (A6) (LRR P,		Redox Dark : Depleted Dark				(MLRA 1	t Material (TF2)
	ucky Mineral (A7) (LR resence (A8) (LRR U		Redox Depre					ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L		-,			lain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Oct		(MLRA	151)		
Thick D	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12)	(LRR O, P		s of hydrophytic vegetation and
Coast P	rairie Redox (A16) (N	ILRA 150						hydrology must be present,
live tenores. On	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric	7.00 pc (0.7.0.1 cm) pc				disturbed or problematic.
100 page 100 p. 1.190	Gleyed Matrix (S4)		Reduced Ver					
A Training within a supplier	Redox (S5)		Piedmont Flo	right Lear	my Soils	(E20) (MI)	49A) RA 149A, 153C, 153	(D)
100 FEB. (100 FE	d Matrix (S6) Irface (S7) (LRR P, S	T 10	Anomalous E	arigint Loai	ily dolls	(120) (1112)	ICA 140A, 1000, 100	
	Layer (if observed):		The American	and the Asia		a special Color		
Type:								
P. Children and St.	ches):						Hydric Soll Pres	sent? Yes No
Remarks:								
rtomarks.								
				ATTENDED.				



Wetland data point wsuo009f_w2 facing southeast.



Wetland data point wsuo009f_w2 facing southwest.

Project/Site: ACP Cit	ty/County: Suffolk Sampling Date: 5/25/16
Applicant/Owner: Dominion	State: VA Sampling Point: W5u0009f-W
Investigator(s): EST - R. Turnbull, IK. MulPhley Se	ection, Township, Range:
Landform (hillslone terrace etc.) Flat Lo	Scal relief (concave, convex, none): 1 me Slope (%): 0-2% Stope (%): 0-2% Stope (%): 0-2% NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	2 Ves No. (If no explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	
SUMMARY OF FINDINGS – Attach site map showing s	ampling 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
NCWAM: Riverine Swamp Forest	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) 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) Field Observations:	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) or (C1) es along Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No Depth (inches):	Surface Wetland Hydrology Present? Yes No
Remarks;	

		t Indicator	
		2 Status	Dominance Test worksheet:
	1/	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
CONTRACTOR	/	11.0	mat Ale OBL, I ACVV, OI FAG (A)
	Aller Land		Total Number of Dominant
			Species Across All Strata: (B)
			Percent of Dominant Species 100 90 (A/B)
			That Are OBL, FACW, or FAC: (A/B)
			Prevalence Index worksheet:
NEX SE			Total % Cover of: Multiply by:
		75.00.00.00.00.00.00	OBL species x 1 =
		Charles and the second of the	FACW species x 2 =
6 of to	otal cove	r: 14	TO A SECURE OF THE PROPERTY OF
			FAC species x 3 =
	V	FACW	FACU species x 4 =
	/	4 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	UPL species x 5 =
	N	CHCA	TO THE ANNUAL PROPERTY AND ANNUAL PROPERTY AND AN ALIGN AND AN
			Column Totals: (A) (B)
			5 - I - I - I - B/A -
			Prevalence Index = B/A =
			(2) 13 年 1 年 2 年 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2
			Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
le in			
			☐ 3 - Prevalence Index is ≤3.01
			Problematic Hydrophytic Vegetation¹ (Explain)
6 of to	otal cove	r. (2	
			¹ Indicators of hydric soil and wetland hydrology must
	~	OBL	be present, unless disturbed or problematic.
			Programme and the support of the programme and t
	7		Definitions of Four Vegetation Strata:
	N	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of
			height.
10000000		7,4 (DA 2.17, 44 (12)	negric.
			Sapling/Shrub - Woody plants, excluding vines, less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
000000			of size, and woody plants less than 3.28 ft tall.
			Woody vine - All woody vines greater than 3.28 ft in
833.49			height.
rest or	mender v		Height.
6 of to	otal cove	r. 18	
Bebl			
N. S. I			
1000	11.671.7621	on Data to a transfer	
			Hydrophytic
-	Total Co	ver	Vegetation
NO THE REAL PROPERTY.			Present? Yes No
1 -54	otal cove	f;	
) = 6 6 of to	Total Co of total cove Total Co of total cove Total Co of total cove	= Total Cover 6 of total cover:

OIL Profile Description: (Describe to the depth ne	adad to documo	t the indicator or con	firm the absence of inc	licators.)
			initi the absence of in-	11041013.7
Depth Matrix (inches) Color (moist) % C	Redox F	eatures "Type Loc"	Texture	Remarks
2 (16)(10 2 11 (0)	- CHOIST	70 1100 200	ML	
3 10 0 5 10 3				The second of th
2-20 104R 3/1 100			_ >	
APPENDENT OF THE PROPERTY OF T				
	A SAP VI SE ASSESSED			
ype: C=Concentration, D=Depletion, RM=Red	uced Matrix MS=1	Masked Sand Grains	² Location: PL=I	Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to all LRR	s. unless otherwi	se noted.)		roblematic Hydric Soils3:
T Histosol (A1)		v Surface (S8) (LRR S,		(A9) (LRR O)
Histic Epipedon (A2)		ce (S9) (LRR S, T, U)		(A10) (LRR S)
Black Histic (A3)		lineral (F1) (LRR O)		ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed I			loodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix		Anomalous	Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Su		(MLRA 1	
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark	Surface (F7)		Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depress			w Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRF		Other (Expl	ain in Remarks)
Depleted Below Dark Surface (A11)		(F11) (MLRA 151)	1	ft. I but a venetation and
Thick Dark Surface (A12)		e Masses (F12) (LRR C	D, P, T) Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)		(F13) (LRR P, T, U)		hydrology must be present, isturbed or problematic.
Sandy Mucky Mineral (S1) (LRR O, S)		17) (MLRA 151)		isturbed of problematic.
Sandy Gleyed Matrix (S4)		(F18) (MLRA 150A, 15		
Sandy Redox (S5)		Iplain Soils (F19) (MLR	MLRA 149A, 153C, 153	D)
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	_ Anomaious brig	int Loanly Sons (120) (WERA 145A, 1000, 100	
Restrictive Layer (if observed):				
Type:			Hydric Soil Pre	sent? Yes No
Depth (inches):			riyunc son rie	163
Remarks:				
				74 a



Wetland data point wsuo009f_w3 facing north.



Wetland data point wsuo009f_w3 facing south.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

WEILAND DETERMINATION DATA	(FORM - Eastern Mountains and Fledmont
Project/Site: ACP	city/County: Suffork Sampling Date: 8/26/15
Applicant/Owner: Dominion	State: VA Sampling Point: WSu0009e-W
	Section, Township, Range:none
Landform (hillslope, terrace, etc.): Flood plain Loca	al relief (concave, convex, none): flat Slope (%): D-3/
Subregion (LRR or MLRA): LRRP Lat: 36.75	
Soil Map Unit Name: Tomotley loam	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly of	
Are Vegetation, Soil, or Hydrology naturally probability	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No N	Is the Sampled Area within a Wetland? Yes No
old roadbed and easemer	ut, highly Compacted
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 Plate	
	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	사용과 가입하다 ()
Algal Mat or Crust (B4) Other (Explain i	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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 NoX Depth (inches) Water Table Present? Yes NoX Depth (inches)	1:
Water Table Present? Yes No Depth (inches)	1. 20 W. (In 11) In 1 Provide Van V
Saturation Present? Yes NoX Depth (inches)	: No No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	

Tree Stratum (Plot size: 30 X30)	Absolute Dominant Indica % Cover Species? State	
1. None		That Are OBL, FACW, or FAC: (A)
2		Species Across All Strata: (B)
4		Percent of Dominant Species
ì		Prevalence Index worksheet:
	O = Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x1=
Sapling Stratum (Plot size: 30 X 30	10 V 5	FACW species x 2 =
Liquidam bar styraciflua		FAC species x3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
	= Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
Shrub Stratum (Plot size: 30 x30)		
None		
		 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation¹ (Explain)
5		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover	Definitions of Five Vegetation Strata:
2070 01 total cover.	20% of total cover:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: SDX30)	70 Y FA	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Eupatorium Capillifolium		(1)
Solidago gigantea Liquidamber styraciflua	5 N.F.	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5		
8		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately (ft (1 m) in height.
10 11.		Woody vine – All woody vines, regardless of height.
	85 = Total Cover	
50% of total cover: 42	25 20% of total cover:	7_
Woody Vine Stratum (Plot size: 30 X30)		
1. Vitis rotundifolia	3 Y F	AC
2		
3		
4		
5.		
	5 = Total Cover	Hydrophytic Vegetation
50% of total course 2	.5 20% of total cover:	Present? Yes No
50 % of total cover. 6	20 /0 OI (Otal Covel	

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the in	dicator o	r confirm t	the absence of indic	ators.)	
Depth	Matrix			Features					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture	Remarks	
0-4	104R3/2	100					1		
4-6	104K 2/1	100			100		CL		
6-20	104R2/1	78	10485/2	20	D	M	C		
		1	10YR 4/4	2	C	PL	C		
100				WELL Y	THEFT				
						100			
¹Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ins. 2	Location: PL=Pore L	ining, M=Matrix.	
Hydric Soil							Indicators for	Problematic Hyd	ric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2 cm Muc	k (A10) (MLRA 14	7)
Histic Ep	oipedon (A2)		Polyvalue Be					irie Redox (A16)	
	stic (A3)		Thin Dark Su	Contract to the State of State		47, 148)		147, 148)	10)
	en Sulfide (A4)		Loamy Gleye Depleted Ma		-2)			Floodplain Soils (F 136, 147)	19)
	d Layers (A5) uck (A10) (LRR N)		X Redox Dark		6)			nt Material (TF2)	
	d Below Dark Surface	e (A11)	Depleted Da					llow Dark Surface (TF12)
	ark Surface (A12)		Redox Depre				Other (Ex	plain in Remarks)	
	Mucky Mineral (S1) (LRR N,	Iron-Mangan		es (F12) (LRR N,			
	A 147, 148)		MLRA 13 Umbric Surfa		MI DA 13	E 122\	3Indicators	of hydrophytic vege	tation and
	Sleyed Matrix (S4) Redox (S5)		Piedmont Flo					ydrology must be p	
	Matrix (S6)			ouplan C	(, ,,,	(sturbed or problem	
	Layer (if observed)	:		沙波等					
Type:								V	
Depth (in	ches):						Hydric Soil Preser	t? Yes	No
Remarks:									



Wetland data point wsuo009e_w1 facing northeast.



Wetland data point wsuo009e_w1 facing northwest.

Project/Site: ACP	City/County: SUFFOIK Sampling Date: 7/21/15
Applicant/Owner: Dominion	State: VA Sampling Point: Wsuo 009e-W
Investigator(s): EST-T. Harbour, K, Murphrey	Scation Township Banga: ALA
	Local relief (concave, convex, none): Flat Slope (%): $O-2$
Landform (milistope, terrace, etc.): 1/10/1	75949 Long: 76,50507 Datum: W65 8
	Datum: WIGS D
Soil Map Unit Name: <u>Selhaven</u> Muck	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling 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: Emergent powerine Row	
Emergen, 19	, and the second
	1
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)
Surface Water (A1)	B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) High Water Table (A2)	B15) (LRR U)
Saturation (A3)	
	spheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red Presence of Red Presence of Red Presence of Red	
☐ Drift Deposits (B3) ☐ Recent Iron Iron Iron Iron Iron Iron Iron Iron	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain i	— /
Inundation Visible on Aerial Imagery (B7)	FAG-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	2/4
Surface Water Present? Yes No Depth (incl	hes): ///
Water Table Present? Yes No Depth (incl	hes): Soffeare
Saturation Present? Yes No Depth (Includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial p	notos, previous inspections), if available:
Remarks:	
	•
	•
\	
	:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+X 30F+)		Species?		Number of Dominant Species
1. None Present				That Are OBL, FACW, or FAC:(A)
2.				Total Number of Dominant
3				Species Across All Strata: (B)
4				Because of Denvises 10
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
				THAT ARE OBL, PACVV, OF PAC.
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				
	0	= Total Co	ver	OBL species x 1 =
50% of total cover:	20% of	fitotal cover	••	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+ X 305+)	20 /0 0	(0(4) 0010	٠	FAC species x 3 =
Saplind/Shrub Stratum (Plot size: 500 17 500 1)	5	\/	FAC	FACU species x 4 =
1. Pinus Lacka		_/_	<u>Pric</u>	1
2				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5	<u> </u>			Hydrophytic Vegetation Indicators:
6.				
				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	5	= Total Co	ver .	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2,5) 20% o	f total cove	r. \	1 Toble Matie Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 308+X309+	20,00	1 10101 0010	··	
	24	V	FACW	¹Indicators of hydric soil and wetland hydrology must
1. Avundination gigontea	<u> 30</u>	. _/,_		be present, unless disturbed or problematic.
2. ACEV renorman	_ 10	N	FAC	Definitions of Four Vegetation Strata:
3. W/COPOdiella al OPECGroide	3 3	Ν	BL	
4. SCIYPUS CUPECINGS	10	N	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		14		more in diameter at breast height (DBH), regardless of
5. TUNCUS PEFUSUS	<u>40</u>	<u> </u>	OBL	height.
6. Rulains arautus	2	N	FAC	Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•				,
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				114
		-		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				-
_	94	_ = Total C	over	
50% of total cover: 4	20%		er: <u>18,8</u>	
		OI TOTAL COV	CI. <u>1070</u>	-
Woody Vine Stratum (Plot size:)	-4	\ \ \ \ \	FAC	1
1. TOXICOGENAUM VERICEMS		<u> </u>	_ <u>+nc</u>	_ \
2		,		
				-
J				-
4				_
5.				Livelyanhydia
		_ = Total C	`~	- Hydrophytic Vegetation
	1		~	Present? Yes No
50% of total cover:	20%	of total cov	/er:	- 1000
Remarks: (If observed, list morphological adaptations b	elow).	•		
	•			
powerline Row				
10000 11110				

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirm	the absence o	f indicators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	- %	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-20	104(2/1	<u> 100 _</u>					WF	mucky loam
	•							
								
								
	oncentration, D=De					ains.	² Location: F	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	erwise note	ed.)		Indicators fo	or Problematic Hydric Soils ³ :
. Histosol	l (A1)		Polyvalue B	elow Surfac	ce (S8) (L	RR S, T, U) 🛄 1 cm Mu	ıck (A9) (LRR O)
│	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)		ick (A10) (LRR S)
□ Black H	istic (A3)		Loamy Mucl	ky Mineral ((F1) (LRR	(0)		d Vertic (F18) (outside MLRA 150A,B
	en Sulfide (A4)		Loamy Gley	ed Matrix (I	F2)			nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	atrix (F3)				ous Bright Loamy Soils (F20)
∐_ Organio	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	6)			A 153B)
	ucky Mineral (A7) (L		Depleted Da					rent Material (TF2)
	resence (A8) (LRR		Redox Depr	essions (F	8)			allow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (Explain in Remarks)
_	d Below Dark Surfa	ce (A11)	Depleted O					
	ark Surface (A12)		Iron-Manga					tors of hydrophytic vegetation and
	rairie Redox (A16)		_		-	', U)	wetla	and hydrology must be present,
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochri		-			ss disturbed or problematic.
_	Gleyed Matrix (S4)		Reduced Ve			•		
	Redox (S5)		Piedmont F					
	d Matrix (S6)			Bright Loai	my Soils (F20) (MLR	A 149A, 153C,	153D)
	urface (S7) (LRR P,							
Restrictive	Layer (if observed):						
Type:								/
Depth (ir	nches):		 -				Hydric Soil I	Present? Yes No
Remarks:	·							
İ								
							•	
			i					
							-	-
1								
	 							



Wetland data point wsuo009e_w2 facing south.



Wetland data point wsuo009e_w2 facing north.

A < Q	City/County: SUSFOIIC Sampling Date: 12/11/15
Project/Site: ACP	City/County: SUSFOILS Sampling Date: 12/11/15
Applicant/Owner: Oominion	State: VA Sampling Point: WSNO 009e-W3
Investigator(s): ESI-M.Smity, K.MUIPNYEY	Section, Township, Range: NT
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): NORE Slope (%):
Subregion (LRR or MLRA): LRRT Lat: 36,	76518
Soil Map Unit Name: Torhunta wam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil or Hydrology naturally p	
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? YesNo	Is the Sampled Area within a Wetland? Yes No
Remarks:	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Mari Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
Algal Mat or Crust (B4) Thin Muck Surfac Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	s): <u>NA</u>
Water Table Present? YesNo Depth (inche	s): >20
Saturation Present? Yes No Depth (inche	s): 6 Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	toe provious increatione) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), il available.
Remarks:	
	1
TO A 2 TO BOOK TO SEE THE SECOND TO	

VZOZIJATION (FOLI CITALE)		。 《大學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學
Tree Stratum (Plot size: 3084 X 3084	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. None Present		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
TO AND A series, who are in representative and the series of the series		mar 74 c c c c c c c c c c c c c c c c c c
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.		Developed Index weeksheet
7		Prevalence Index worksheet:
8.		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 8 + X 30 6+		FAC species x 3 =
00000		FACU species x 4 =
1. NONE PLESELIT	A CONTRACTOR OF THE PROPERTY O	UPL species x 5 =
2.		Column Totals: (A) (B)
3.		Column Totals (A) (B)
4.		Prevalence Index = B/A =
5.		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30 8+ X3084)	110 11 -11	¹ Indicators of hydric soil and wetland hydrology must
1. Dichanthelium strigosum	40 Y FAC	be present, unless disturbed or problematic.
2. Solidado gigantea	20 N FACW	Definitions of Four Vegetation Strata:
3. JUNCUS EFFUSUS	10 N FACW	To the declarate evaluation vince 2 in (7.6 cm) or
4. Euparorium capillifolium	10 N FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Persicaria sagittata	5 N OBL	height.
	10 N. ≥FACW	
		Sapling/Shrub – Woody plants, excluding vines, less
7. Kulbus argutas		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Solidage SP.	5 N UNK	Herb - All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10		Woody vine – All woody vines greater than 3.28 ft in
11.		height.
12	105 = Total Cover	
67	The second section is a second	
50% of total cover:	20% of total cover: 21	
Woody Vine Stratum (Plot size: 3084 X3094)		
1. none present		
2.		
3.		
4		
5	0 - Total Cover	Hydrophytic Vegetation
	= Total Cover	Present? Yes No No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations beli	ow).	
######################################		가는 마시아 열대 가는 아니는 사람들이 가지 않는 내용하다. 항상 가게 되었는데 그렇게 되었다면 하는데 맛이 하는데 되었다면 하다 되었다면 하다 되었다면 하다.

	ription: (Describe	to the dep		ment the l		or confirm	the absence of	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type	Loc²	Texture	Remarks
0-13	104R 2/1	100					5L	
13-20	104R4/1	97	10YR 4/4	3	C	M	SL	
TO THE REAL PROPERTY.		100						
		1975	The Property	120				
14 1011	Transfer and Artist	19.4	1730 (1477)					
					100			
Time: C=C	oncentration, D=Dep	letion PM-		S=Masked	Sand Gr	ains	² Location: PL	=Pore Lining, M=Matrix.
	Indicators: (Applic							Problematic Hydric Soils ³ :
Histosol			Polyvalue Bo			RR S, T, U) 1 cm Muc	k (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark S					k (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck			0)		Vertic (F18) (outside MLRA 150A,B)
THE RESERVE AND ADDRESS OF THE PARTY OF THE	en Sulfide (A4)		Loamy Gley		F2)		10 TO	Floodplain Soils (F19) (LRR P, S, T)
A CONTRACTOR AND CONT	d Layers (A5)		Depleted Ma		-61		Anomalou	s Bright Loamy Soils (F20)
A CONTRACTOR OF THE PARTY OF TH	Bodies (A6) (LRR P cky Mineral (A7) (LF		Redox Dark Depleted Da				 E. C. Sell, D. Jersen, E. W. Z. Johnson, March 2015. 	nt Material (TF2)
10 m 45 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	esence (A8) (LRR U		Redox Depr					low Dark Surface (TF12)
the winderhood printed the filler	ick (A9) (LRR P, T)		Marl (F10) (I					plain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)		
SECTION STREET, SECTION AND	ark Surface (A12)		Iron-Mangar				D.C. C. L. China Ch. P. H. China and a policy consist to	rs of hydrophytic vegetation and
Comment of the Commen	rairie Redox (A16) (P				친료에서 얼마나라면 하다 없었다	, U)		d hydrology must be present,
State Publication	Mucky Mineral (S1) (I	RR O, S)	Delta Ochric			04 45081		disturbed or problematic.
10.7 (Art Control (C.), 49(3)	Gleyed Matrix (S4)		Reduced Ve					
CONTRACTOR OF THE PROPERTY OF	Redox (S5) I Matrix (S6)						A 149A, 153C, 15	(3D)
	rface (S7) (LRR P, S	s. T. U)		Dingilit Edu	,	, (
The second secon	Layer (if observed):		American Commission Special Commission	grand de l'art		Secretary, a second		
Type:								. /
Depth (in	ches):						Hydric Soll Pre	esent? Yes No
Remarks:		White the property	NEW YORK THE PROPERTY.	The Assets				



Wetland data point wsuo009e_w3 facing east.



Wetland data point wsuo009e_w3 facing south.

Photo Sheet 1 of 3

Project/Site: ACP	City/County: Suffolk Sampling Date: 5/25/16
Applicant/Owner: Dominion	State: VA Sampling Point: WSU0009e-1
Investigator(s): EST-R. Turnbull, K. Muraureg	Section Township Range: N/A
investigator(s):	_ocal relief (concave, convex, none): Slope (%):
Landform (hillslope, terrace, etc.):	_ocal relief (concave, convex, none): _none _Slope (%): _0-2% 76325 _Long: _76. 41305 _Datum: _WG584
Subregion (LRR or MLRA): Lat: 30.	Long: -18. 4170 Balum. OFF
Soil Map Unit Name: Deloss mucky Fine Sordy	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation Soil, or Hydrology significantly of	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	1.4.6
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Within a Wetland r res no
Remarks:	
HYDROLOGÝ	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
☐ Surface Water (A1) ☐ Aquatic Fauna (B13	CONTROL OF THE CONTRO
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	2019의 10 12 12 12 12 12 12 12 12 12 12 12 12 12
	ion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
☐ Iron Deposits (B5) ☐ Other (Explain in Re	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches)	:_ N/A
Water Table Present? Yes No Depth (inches)	: 18
Saturation Present? Yes No Depth (inches)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	s previous inspections), if available:
Describe Necessage Data (encent gasge, montering visin, period	
Remarks:	

A large transport of the section of	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 20ft.)	% Cover Species? Status	Number of Dominant Species
0.00		That Are OBL, FACW, or FAC:(A)
		That Ale Obe, 1 Aovi, of the
2.		Total Number of Dominant
3.		Species Across All Strata: (B)
4		Description of Deminant Species 4 4 6
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
100 Thomas agreement was the property of the p		That Ale OBE, I ACVV, OI I AC
6.		Prevalence Index worksheet:
7.		Total % Cover of: Multiply by:
8.		The same of the state of the same of the s
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft, x2012)		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: _Soft, RCove.)		FACU species x 4 =
1. none Present		UPL species x 5 =
2.		■ YOU MAN CONTROL TO THE PROPERTY OF THE PR
3.		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
		The Property of the Archaeology and control and an archaeology and a second a second and a second and a second and a second and a second a second and a second an
5		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8.		☐ 3 - Prevalence Index is ≤3.01
	Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
ED9/ of total cover	20% of total cover:	Thousand Trydrophylic Vegetation (Explain)
	20 % of total cover.	
Herb Stratum (Plot size: 30 (× 20 ft.)	80 Y UBL	¹ Indicators of hydric soil and wetland hydrology must
1. Junas effusus		be present, unless disturbed or problematic.
2. Ligaridamber styracifina	10 N FAC	Definitions of Four Vegetation Strata:
3. Carex se.	5 N UNK	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
A Rutur and has	10 N FAC	more in diameter at breast height (DBH), regardless of
5. Arundinaria gigantea	10 N FACW	height.
5. Arunainaria gigantea	10 10 1720	
6,		Sapling/Shrub - Woody plants, excluding vines, less
7.		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.		Herb - All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10.		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12.		
	11 S = Total Cover	TO SERVICE THE TEXT OF THE CONTROL OF T
50% of total cover: \$7	. 5 20% of total cover: 23	
Woody Vine Stratum (Plot size: 3081 X 2081)	20/00/10/10/10/10	
1. None Present		
2.		
3.		
4.		
TABLE TO A SECURITION OF THE PROPERTY OF THE P		
5		Hydrophytic
THE CONTRACT OF THE PARTY OF TH	= Total Cover	Vegetation
5.	= Total Cover	
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5.	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation
5 50% of total cover:	= Total Cover 20% of total cover:	Vegetation

Depth	Matrix	to this dop		x Features	or or committee	he absence of ind	
(inches)	Color (moist)	%	Color (moist)			Texture	Remarks
0-8	104R2/1	100				Mirchay loan	
8-20	104R2/1					5	
Hydric Soil Histoso Histic E Black H Hydrogo Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy Sandy Sandy	oncentration, D=Dep Indicators: (Applications) I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below (A6) (LRR Foucky Mineral (A7) (Livesence (A8) (LRR P, T) de Below Dark Surface ark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	eable to all LF P, T, U) RR P, T, U) J) Se (A11) MLRA 150A)	RRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Mucky Depleted Mai Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oci Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo	rwise noted.) Flow Surface (S8) Flace (S9) (LRR y Mineral (F1) (Li ed Matrix (F2) trix (F3) Surface (F6) rk Surface (F7) essions (F8) LRR U) hric (F11) (MLRA lese Masses (F12 ace (F13) (LRR P (F17) (MLRA 15 rtic (F18) (MLRA codplain Soils (F	(LRR S, T, U) S, T, U) RR O) (151) (2) (LRR O, P, 1 (7, T, U) (1) (150A, 150B) (MLRA 149	Indicators for Pr 1 cm Muck (2 cm Muck (Reduced Ver Piedmont Fic Anomalous E (MLRA 15: Red Parent I Very Shallov Other (Explain) 3 Indicators wetland h unless di	A10) (LRR S) rtic (F18) (outside MLRA 150A,B) bodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 3B) Material (TF2) v Dark Surface (TF12) in in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Dark Son Restrictive Type:	urface (S7) (LRR P, Layer (if observed)):					
Depth (in	nches):		_			Hydric Soil Pres	ent? Yes No No



Wetland data point wsuo009e_w4 facing north.



Wetland data point wsuo009e_w4 facing south.

Project/Site: ACP	City/County: 5hfolk Sampling Date: 5/25/16
Applicant/Owner: Donninion	State: VA Sampling Point: WSu0009e-W5
Investigator(s): EST - R. Turaball, K. Murparey	Section, Township, Range: N/A
Landform (hillslone terrace etc.): Stat	Local relief (concave, convex, none): Slope (%):
Subsection (IRR or MIRA): RR T Lat: 36.	76811 Long: -76.48024 Datum: WG584
Soil Map Unit Name: Deloss Mucky tuam	NWI classification: PEM
	(Management)
Are climatic / hydrologic conditions on the site typical for this time of ye	eary yes No (II no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Complet Asso
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	within a Wetland r Tes 110
Remarks:	
old roadbed	
LIVEROLOGY	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1	
High Water Table (A2) Mari Deposits (B15)	ka : 사용했지만 50 개인 20 개인 보면 보다 가장 하면 하다 하는데 되는데 ### ### #########################
Saturation (A3) Hydrogen Sulfide (
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
The state of the s	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	용면 보면 그렇게 하는데 마이트 아이들 것이다. 그는데 아이들 아이들이 나를 하는데 하다면 하는데 하는데 하는데 하는데 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들
Iron Deposits (B5) Uher (Explain in F	Remarks)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	in Chinagham moss (25) (2 mm 1/2)
Surface Water Present? Yes No Depth (inches	h: 6
Water Table Present? Yes No Depth (inches): surface
Saturation Present? Yes No Depth (inches): surface Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	
Describe Recorded Data (stream gauge, monitoring wen, aenai prioti	os, previous inspections), in available.
Remarks:	

200	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 20ft)	% Cover Species? Status	Number of Dominant Species
Anna Diecont		That Are OBL, FACW, or FAC:(A)
AND A SECURITION OF THE PROPERTY OF THE PROPER		That rac obe, i riovi, of the
2.		Total Number of Dominant
3.		Species Across All Strata: (B)
4.		
		Percent of Dominant Species That Are OBL, FACW, or FAC: (OO 70 (A/B)
5.		That Are OBL, FACW, or FAC: (A/B)
6.		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8.		OBL species x 1 =
	= Total Cover	TO A STATE OF THE PROPERTY OF
50% of total cover	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 fr. ~ 20 fr.)	2070 01 10101 00 101	FAC species x 3 =
		FACU species x 4 =
1. none Present		A CONTROL OF THE STATE OF THE S
2.		UPL species x 5 =
THE RESERVE OF THE PROPERTY OF	to the company was a few to the first property and the company the company of the	Column Totals: (A) (B)
3. <u></u>		
4.		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1-Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		☐ 3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
		Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30 ft 20ft)	1/ 01	¹ Indicators of hydric soil and wetland hydrology must
1. Juneus effering	70 7 084	be present, unless disturbed or problematic.
Company of the compan	Control of the Contro	Definitions of Four Vegetation Strata:
		Deminions of Four Vegetation Strata.
3. Woodwardin Virginica	10 N OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Arundinaria gigantea	ZO N FACW	more in diameter at breast height (DBH), regardless of
5. Clethre alpifolda	5 N FACH	height.
5. Cicinie airibian		
6. Liquidamber shraciflera	5 N FAC	Sapling/Shrub - Woody plants, excluding vines, less
7.		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.		and the second s
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9.		of size, and woody plants less than 3.20 it tall.
10.		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12	100	
	= Total Cover	
50% of total cover: 65	20% of total cover: 26	
Woody Vine Stratum (Plot size: 30ft. × 20ft.)		
voody vine Stratum (Flot size. 3011.2001)		
1. NOTE PIESEN+		
2.	Section of the Control of the Marketon	
3		
	North Control of the	
4.		
5.		Hydrophytic
	S = Total Cover	Vegetation
	The contract of the contract o	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo	ow).	

Profile Desc	ription: (Describe	to the dept	h needed to docum	ent the i	ndicator c	r confirm t	he absence of in	dicators.)
Depth	Matrix Color (moist)	%	Color (moist)	Features %	Type ¹	Loc²	Texture	Remarks
(inches)	Viscous automobile or description of extension in	100	Color (moist)		Type	200	ML	
man production of the contract of	104RZ/1						-	
6-20	104R 2/1	100					3	
	oncentration, D=Dep	- Intian DM-	Doduced Matrix MS	-Mackad	Sand Gra	ine	² Location: PL =	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all I	RRs. unless other	wise not	ed.)	113.	Indicators for I	Problematic Hydric Soils ³ :
Histosol		dalo to uni	Polyvalue Be			RRS.T.U)		(A9) (LRR O)
	pipedon (A2)		Thin Dark Su				2 cm Muck	(A10) (LRR S)
	istic (A3)		Loamy Muck					'ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	AZA FORESCHINA HISEORIA (K.B. ST	Barta Maria Barta Cara Cara		☐ Red Parent	t Material (TF2)
Transferred Contract	ucky Mineral (A7) (L resence (A8) (LRR L		Depleted Dar					ow Dark Surface (TF12)
Train fails described (Challes)	uck (A9) (LRR P, T)	-1	Marl (F10) (L		-1			lain in Remarks)
	d Below Dark Surface	ce (A11)	Depleted Ocl		(MLRA 15	1)		
Thick D	ark Surface (A12)		☐ Iron-Mangan	ese Mass	es (F12) (I	RR O, P, T		s of hydrophytic vegetation and
	rairie Redox (A16) (U)		hydrology must be present,
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric			A 450B)	uniess	disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver				(A)	
5024400050004.2.200	Redox (S5) d Matrix (S6)						149A, 153C, 15	3D)
	urface (S7) (LRR P,	s, T, U)						
	Layer (if observed)							
Type:								
Depth (in	nches):		<u></u>				Hydric Soil Pre	esent? Yes No
Remarks:								



Wetland data point wsuo009e_w5 facing north.



Wetland data point wsuo009e_w5 facing south.

Project/Site: ACP	City/County: Suffolk Sampling Date: 7/14/15
Applicant/Owner: Dominion	City/County: Suffolk Sampling Date: 7/14/15 State: VA Sampling Point: Wsuo 009.u
Investigator(s): ESI-K. MUCPAY-PGK, Markhan	Section Lowishin Range:
Landform (hillslope, terrace, etc.); will stope	Local relief (concave, convex, none): CONVEX Slope (%): 2-4 75728 Long: -76, 51054 Datum: W65 84
Subregion (LRR or MLRA): L RRT Lat: 36.	75728 Long: -76, 51054 Datum: WGS 54
Soil Map Unit Name: TO MOTIEG 10am	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pro	
, , , , , , , , , , , , , , , , , , , ,	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Presence of Redu	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Odor (C1) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2) Iction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Ses): 7201 Wetland Hydrology Present? Yes No

150. 1300	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 156+ × 306+	<u>% Cover</u>	Species?	_Status_	Number of Dominant Species
1. None Plesen +				That Are OBL, FACW, or FAC: (A)
2				Tetel Monte of Decision (C)
3				Total Number of Dominant Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are ORL EACW or EAC:
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
	$\overline{\mathcal{Q}}$	= Total Co	ver	OBL species x1 =
50% of total cover:	20% of	f total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <u>I Sをも又ろのきょ</u>)		1		FAC species x 3 =
1. Rhus copallinum	5	7)	UPL	FACU species x 4 =
2. Liquidambor Styrac flux	5	\overline{N}	FAC	UPL species x 5 =
3. Arundinaria a ganten		$\frac{1}{}$	FACW	Column Totals: (A) (B)
S 2		- 7	1110.	(2)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
	20	= Total Co		3 - Prevalence Index is ≤3.01
50% of total cover:	3 0000	fatal asse	4	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% 0	f total cove	T:	
Herb Stratum (Plot size: 15 f 1 × 30 f 1)	7	~	F 4	¹ Indicators of hydric soil and wetland hydrology must
1. Festuca rubra	<u>30</u>		FACU	be present, unless disturbed or problematic.
2. Dicharthelium dichotomu	m 10	<u> </u>	FAC	Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				· \
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tail.
10				
11				Troots the traces the greater than one of the
11				height.
12	- 11.7			-
	<u>'TC</u>) _ = Total C	over	-
50% of total cover: 2-	<u>~</u> 20%	of total cov	er: <i>></i>	_ \
Woody Vine Stratum (Plot size: 158+ x 308+)				
1. None Present				
				-
2		<u>-</u>		_
3				_
4				_ }
5				Liudvanhutia
	- 0	_ = Total (Cover	- Hydrophytic Vegetation
FCD/ -\$4-t-1		_		Present? Yes No No
50% of total cover:		OI fotal co	ver:	_
Remarks: (If observed, list morphological adaptations b	elow).			
1				

Samolino Point	WSU0009_0

SOIL

Profile Desc	ription: (Describe t	to the dep	th needed to docun			or confirm	the absence of ind	licators.)
Depth	Matrix (2015)	- 0/		x Feature		1 2	·	
(inches) O- 6	Color (moist)	<u> </u>	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
1	104R2/1	100						
6-14	104R5/3	80	104R3/2	20			<u> </u>	
14-20	104K5/2	40	104R 4/6	10	C	\sim	Clay	
								
								
								
					·			
¹ Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, Ma	S=Maske	d Sand Gra	ains.	² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	rwise not	ied.)		Indicators for P	roblematic Hydric Soils³:
│ 🄲 Histosol			Polyvalue Be				l) 📮 1 cm Muck (A9) (LRR O)
	oipedon (A2)		Thin Dark Su			•		A10) (LRR S)
	stic (A3)		Loamy Muck			: 0)		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR P	T. 11)	Redox Dark		F6)		Anomaious	Bright Loamy Soils (F20)
	cky Mineral (A7) (LF				•			Material (TF2)
	esence (A8) (LRR U		Redox Depre					w Dark Surface (TF12)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (I	LRR U)				ain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc				_	
_ =	ark Surface (A12)		Iron-Mangar					of hydrophytic vegetation and
	rairie Redox (A16) (I Aucky Mineral (S1) (I					, U}		hydrology must be present,
	odcky lvinerai (ST) (i Gleyed Matrix (S4)	LKK 0, 3)	Delta Ochric Reduced Ve			50A 450B)		isturbed or problematic.
1 ===	Redox (S5)		Piedmont FI					
	d Matrix (S6)						, RA 149A, 153C, 153	וס
Dark St	urface (S7) (LRR P, S	S, T, U)		_	·	. , ,	,	İ
Restrictive	Layer (if observed)	:	•	•	_			
Type: _							ļ	
Depth (ir	nches):						Hydric Soil Pres	sent? Yes No
Remarks:								
								ļ
		*						ļ
1								3
								,
								!
Ì								
1								
1								
-								



Upland data point wsuo009_u facing northwest.



Upland data point wsuo009_u facing southeast.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: ACP City/County: Sufficient Sampling Date: 12/1/15 State: VA Sampling Point: WSUO 009_u2 Applicant/Owner: Dominion Investigator(s): EST-M. Smith, IS. MUIPhileg Section, Township, Range: NA Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 2 Lat: 36,76286 Long: -76.50744 Subregion (LRR or MLRA): LRR T Soil Map Unit Name: Belhaven muck NWI classification: NA (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes 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 Yes ____ No Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: ___ Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) ___ Aquatic Fauna (B13) Surface Water (A1) ___ Marl Deposits (B15) (LRR U) ___ Drainage Patterns (B10) __ High Water Table (A2) __ Moss Trim Lines (B16) ___ Hydrogen Sulfide Odor (C1) __ Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) __ Crayfish Burrows (C8) _ Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) __ Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) __ Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): NA Surface Water Present? Depth (inches): >20 Water Table Present? No Depth (inches): 720 Wetland Hydrology Present? Yes __ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+ x3084)	-	Species?		Number of Dominant Species
1. Platanus occidentalis	15	-	FACW	That Are OBL, FACW, or FAC: (A)
2. Acel rubram	15		FAC	Total Number of Dominant
3. Liquidambar Styracistus	5	N	FAC	Species Across All Strata: (B)
4. QUEYCUS Phelios	2	_ N	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	37	= Total Cov	/er	OBL species x 1 =
50% of total cover: 19				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 308+X308+)	20%01	total cover		FAC species x 3 =
1. Aralia Spinosa	2	N	FAC	FACU species x 4 =
	15	~/	FACCI	UPL species x 5 =
2. Ilex opaca	10		FACW	Column Totals: (A) (B)
3. Vaccinian corymbosum		7		
4. Clethra alibolia	10	7	FACW	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 18	5 20% of	total cover	: 7.4	
Herb Stratum (Plot size: 3084 X 8084)	30	V	CAC	¹Indicators of hydric soil and wetland hydrology must
1. Microstegium vinneum	-	- 01	EAC	be present, unless disturbed or problematic.
2. Rubus argutus		N	FAC	Definitions of Four Vegetation Strata:
3.		1		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B.				Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
				Woody vine – All woody vines greater than 3.28 ft in height.
11.	10000	January State		neight.
12.	35	= Total Cov		professional and the second of
FACE 11 11 17				
50% of total cover: 17,	20% of	total cover	-	
Woody Vine Stratum (Plot size: 3084X3084)	30	1/	- nei	
1. Lonicera japonica	20	7	FACU	
1. Lonicera japonica 2. Smilax rotundifolia	20	N	FAC	
1. Lonicera japonica	20 5 5	N N	A TRANSPORT	
1. Lonicera japonica 2. Smilax rotundifolia	20 5 5	N N	FAC	
1. Lonicera japonica 2. Smilax rotundifolia	5 5	7 7	FAC	Hydrophytic
1. Lonicera japonica 2. Smilax rotundifolia	30 30	N N = Total Cox	FAC	Vegetation
1. Conicera japonica 2. Smilax rotundifolia	The same of the same of the same of	= Total Cover	FAC	

Depth Matrix Redox Features (inches) Color (moist) % Type Loc² Texture Remarks	
(Illicites) Cold (Illiast) 70 Cold (Illiast) 70 Type E00	
0-3 100.R2/2 100	
3-4 2.545/4 IOV SL	
4-5 10483/1 100 L	
5-10 10GRH/3 100 SL	
10-15 104R4/3 100 SEL	
15-20 WGR4/1 100 CL	
13 10 10911 1 100	
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Pydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Location: PL=Pore Lining, M=Matrix. 1 Indicators for Problematic Hydric Soils ²	:
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)	4504 D)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA Hydrogen Sulfide (A4) Piedmont Floodplain Soils (F19) (LRF	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRF Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20)	1,0,1,
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B)	
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)	
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain In Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) — Depleted Schille (A17) — Depleted Schille (A17) — Iron-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetation	and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be presen	t,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic.	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A)	
Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) — Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type:	./
Depth (inches): Hydric Soil Present? Yes No	
Remarks:	



Upland data point wsuo009_u2 facing northeast.



Upland data point wsuo009_u2 facing southwest.

Photo Sheet 3 of 3

Project/Site: ACP City/C	County: Sampling Date: 5/25/16
Applicant/Owner: Dominion	State: VA Sampling Point: WSu0 009_u3
Investigator(s): ESI - R. Turnbull, K. Marphirey Secti	an Taumahin Banga: N/A
investigator(s):	511, 10wiiship, Range
Landform (hillslope, terrace, etc.): round Local	relier (concave, convex, none)
Subregion (LRR or MLRA): LRK Lat: 36. 76 TO	Long:76.48905 Datum: WG584
	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year?	'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 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? Yes No Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Road bed	
HYDROLOGŸ	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
☐ Surface Water (A1) ☐ Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B15) (LR	
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Inc. Presence of Reduced Inc.	사용하는 보이라고 있는데 100 전에 가는 보고 있는데 100 전에 100 전
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Geomorphic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remar	[1981] (1881) - 1987) [1982] [1982] [1983] [1984] [
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	NA ALC
Water Table Present? Yes No Depth (inches):	>4
Saturation Present? Yes No Depth (inches):	>4 Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	A CONTRACT OF THE PROPERTY OF

od popularia North Sameles a Albana di Como di Ambara (Albana di Ambara).	hill de reconstant dies settem displayed Prizze (v. 1977 v. 1976).	T T T T T T T T T T
Tree Stratum (Plot size: 364. 204)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet: Number of Dominant Species
Dane Procest		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2.		
3.		Total Number of Dominant 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:
7		Total % Cover of: Multiply by:
8	The state of the s	OBL species x 1 =
	= Total Cover	FACW species x 2 =
[1] [1] [1] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	20% of total cover:	FAC species x3 =
Sapling/Shrub Stratum (Plot size: 30 Ft. 30 Pt.)	In V Taril	FACU species x 4 =
1. Platanus occidentalis		UPL species x 5 =
2.	A STATE OF THE PARTY OF THE PAR	Column Totals: (A) (B)
3.	The series which there is not being	Coldilli Totals (7)
4.		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		☐ 3 - Prevalence Index is ≤3.0¹
	10 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of total cover: 2	
Herb Stratum (Plot size: 3081. x 2061.)		¹ Indicators of hydric soil and wetland hydrology must
1. Phragmites australis	40 Y FACW	be present, unless disturbed or problematic.
2. Enpadorium capillifolium		Definitions of Four Vegetation Strata:
3. AsclePias syriaca	40 Y UPL	
4. Leigenteza cuneata	5 N FACH	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Junes elfosts	IN N OBL	height.
The state of the s	Properties and the control of the second section of the control of	
6.		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.		
8.		Herb – All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10.	A STATE OF THE PARTY OF THE PAR	Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12.		
	105 = Total Cover	POT SUPPLY DESCRIPTION OF THE PROPERTY OF THE
50% of total cover: 5d.	5 20% of total cover: 2 \	
Woody Vine Stratum (Plot size: 30ft x 20ft.)		
1. None Present		
2.		
3.		
4.		
5.		Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	Part a transfer or access of the constitution	Present? Yes No
FOR CASE AND STORY OF THE RESERVE OF THE STORY OF THE STO		
Remarks: (If observed, list morphological adaptations belo	w).	

epth	Matrix	%	Color (moist)	Features Type	Loc²	Texture	Remarks
o-4	2.54 3/2	100	Color (moist)	79 1100		S	
ydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Deplete Thick Dr Coast P Sandy M Sandy F	oncentration, D=Dep Indicators: (Application) (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR Fucky Mineral (A7) (Linesence (A8) (LRR P, T) d Below Dark Surface ark Surface (A12) trairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	eable to all LF 2, T, U) RR P, T, U) J) Se (A11) MLRA 150A)	Rs, unless other Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyer Depleted Matt Redox Dark S Depleted Darl Redox Depre: Marl (F10) (Li Depleted Och Iron-Mangane Umbric Surfar Delta Ochric Reduced Veri	wise noted.) ow Surface (S8) (I fface (S9) (LRR S Mineral (F1) (LRi d Matrix (F2) rix (F3) Surface (F6) k Surface (F7) ssions (F8) RR U) oric (F11) (MLRA 1 ese Masses (F12) ce (F13) (LRR P, 7 (F17) (MLRA 151) tic (F18) (MLRA 1 odplain Soils (F19)	LRR S, T, U) (T, U) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	Indicators for F 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1: Very Shallo Other (Exp	(A10) (LRR S) ertic (F18) (outside MLRA 150A,B floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) t Material (TF2) ow Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
	urface (S7) (LRR P, Layer (if observed)		_			Hydric Soil Pre	sent? Yes No
Depth (in							CHARLEST MADE TO A COLD TO A COLD TO COLD TO COLD TO A COLD TO THE COLD TO COL
Depth (in	refusal 6) 4 inchi	es (road b	ed) - fill	materi	al	
Depth (in		4 inche	es (road b	ed) - fill	materi	al	
Depth (in		4 inche	es (road b	ed) - fill	materi	al	



Upland data point wsuo009_u3 facing east



Upland data point wsuo009_u3 facing northwest

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ Applicant/Owner: Mr Eachern Section, Township, Range: <u>none</u> Investigator(s): 1. Harbour Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Anniase Long 76. 47196 Subregion (LRR or MLRA): ___ Soil Map Unit Name: Torhunda NWI classification: 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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Mari Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? 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:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30		Species?		
		$\overline{}$	FAC	Number of Dominant Species
1. Querna nigra				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata; (B)
				opedies Adross Air Strata, (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:
6.				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				, <u> </u>
	10	= Total Cov	er/	OBL species x1 =
50% of total cover:		total cover	~	FACW species x 2 =
30% of total cover.	20% 0	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30x30)		. 1	. .	
1. Liquidanher Styraciflua	3	4	FAC	FACU species x 4 =
2. Quercus nigra	3	7	FAC	UPL species x 5 =
2. 200			11/2	Column Totals: (A) (B)
3. Pinus taeda	⊸2—		FAC.	Column Fotals: (A)
4. Magnolia virginiana)	<u>N</u>	PACW	Prevalence Index - P/A -
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ¹
_		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 8. ≤	20% o	f total cover	. 3.Y	
Herb Stratum (Plot size: 30+30)				1.
herb stratum (Plot size:)	a D	S.I	CLAM	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	70		FALW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4			<u> </u>	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
		-	- 	noight.
12	- 7 7		· ———	
	70	= Total Co	ver	
50% of total cover: <u>40</u>	20% (of total cove	. IO	
		/	"· <u></u>	
Woody Vine Stratum (Plot size:)		NI.	E6.7	
1. Onilax rotundifolia	<u> </u>	<u> </u>	FAC	
2. Toxicodenchen radicana	<	Ч	FAC	
				·]
3				. [
4				
5				
V	15			- Hydrophytic
_	15	_ = Total Co	over 🥎	Vegetation
50% of total cover:	20%	of total cove	er:	Present? Yes No
Remarks: (If observed, list morphological adaptations bel	ONI)			1
Tremarks. (ii observed, list morphological adaptations bei	ow).			

•	Matrix		Redo	x Features			the absence of inc	,	
nches)	Color (moist)	_ <u> </u>	Color (moist)	%	Type¹	_Loc ²	Texture	Remarks	
<u>- 50</u>	IVE DIVU	<u> </u>					Soudy mm		
							·		
									
-	 								
		 -							
									<u> </u>
	anagetestian D-D-			<u> </u>	01-0		2) (1)		
	oncentration, D=De Indicators: (Appli					uns,		Pore Lining, M=Matrix.	3.
		cable to all L						roblematic Hydric Soils	;·:
Histosol			Polyvalue Be					(A9) (LRR O)	
	pipedon (A2) istic (A3)		Thin Dark St					(A10) (LRR S)	
1	en Sulfide (A4)		Loamy Muck			U)		ertic (F18) (outside MLR.	
	d Layers (A5)		Depleted Ma		-2)			loodplain Soils (F19) (LR	
	: Bodies (A6) (LRR I	P T III	Redox Dark		6)		(MLRA 15	Bright Loamy Soils (F20)	
	ucky Mineral (A7) (L		Depleted Da					Material (TF2)	
	resence (A8) (LRR		Redox Depr					w Dark Surface (TF12)	
	uck (A9) (LRR P, T)		☐ Marl (F10) (I		7			ain in Remarks)	
	d Below Dark Surfa		Depleted Oc	•	MLRA 1	51)	Outlot (Expir	an in remarks)	
	ark Surface (A12)	` '	Jron-Mangar		-	•	T) ³ Indicators	of hydrophytic vegetatio	n and
Coast P	rairie Redox (A16)	(MLRA 150A)					•	hydrology must be prese	
	Mucky Mineral (S1)		Delta Ochric			•		isturbed or problematic.	
Sandy (Gleyed Matrix (S4)		Reduced Ve			0A, 150B		•	
Sandy F	Redox (S5)		Piedmont FI						
•	d Matrix (S6)		Anomalous	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 153	D)	
	ırface (S7) (LRR P,								
	Layer (if observed	•						<u> </u>	
Туре:									
Depth (in	iches);						Hydric Soil Pres	sent? Yes <u> </u>	o
marks:									
		·							
		,							
		,							
		,							
		,							
		,							
		,							



Wetland data point wsuo010s_w facing north southeast.



Wetland data point wsuo010s_w facing east south.

Photo Sheet 1 of 2

Project/Site: AP	City/County: Suffolk Sampling Date: 7/21/15
Applicant/Owner: Dominion	State: NA Sampling Point: Wsuo D10-u
Investigator(s): J. Handom C. McEchen	Section, Township, Range:
Landform (hillslone terrace etc.): h.:1/s/p.A/	Local relief (concave, convex, none):
Subragion (I DD or MI DA):	27096 Long-76:47141 Datum: WGS 84
Soil Map Unit Name: Torhunta loam	NWI classification: NOV
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	<u> </u>
Road Fill Slope	·
	,
A Commence of the commence of	
HYDROLÓGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	— · · · — · · · · · · · · · · · · · · ·
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu	uced Iron (C4) Crayfish Burrows (C8) Inclion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Other (Explain in	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es): NA
Water Table Present? Yes No Depth (inches	es): 70 7
Saturation Present? Yes No V Depth (inche (includes capillary fringe)	es): <u>73 0</u> Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
(Citation)	
İ	
	•
·	

Tree Stratum (Plot size: 15 x 15)			Indicator	Dominance Test worksheet:
	<u> % Cover</u>	Species?	Status_	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: (A)
2				
				Total Number of Dominant
3				Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 80
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
o .				Total % Cover of: Multiply by:
0	_			OBL species x 1 =
		= Total Co	ver	
50% of total cover:	20% of	total cover	r:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15×15)				FAC species x 3 =
1. Liquidambar styraciflua		V	CN1	FACU species x 4 =
	<u> </u>		I-AC	
2. Quercus nigra	<u> </u>	7_	EAC_	UPL species x 5 =
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5			_	
				Hydrophytic Vegetation Indicators:
6				- Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co		
2 <	_—	= 10(8) 00	Mei	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 3.	20% o	f total cove	r: <u>1 · Y</u>	
Herb Stratum (Plot size; 15x15)				11. 11. 11. 11. 11. 11. 11. 11. 11. 11.
1. Arundinaria gigantea.	50	\i	FACW	¹ Indicators of hydric soil and wetland hydrology must
1. Manatraria Gigaria	. 	<u> </u>		be present, unless disturbed or problematic.
2. Eupatorium capillifolium		<u>N</u>	FALL	Definitions of Four Vegetation Strata:
3				1
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
				<u> </u>
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Mark Allbridge / Inch
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Mandy vine All woods vines creates then 2.20 ft in
10.		<u> </u>		Woody vine – All woody vines greater than 3.28 ft in
11				Woody vine – All woody vines greater than 3.28 ft in height.
10.				
11				
11 12	_55	= Total C	over	
10. 11. 12. 50% of total cover:	_55	= Total C	over	
11 12	_55	= Total C	over	
10. 11. 12. 50% of total cover:そうい Woody Vine Stratum (Plot size: 」 ケメノケ)	_55	= Total C	over	
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Tox: Codendron radicans.	_55	= Total C	over	
10. 11. 12. 50% of total cover:そうい Woody Vine Stratum (Plot size: 」 ケメノケ)	_55	= Total C	over	
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Tox: Codendron radicans.	_55	= Total C	over	
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodudion radicans: 2. Longera japonica	_55	= Total C	over	
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodudion radicans: 2. Longera japonica	_55	= Total C	over	
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnoton radicans: 2. Lansera japanica	_55	= Total C	over	height.
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15×15) 1. Toxicodnohon radicans: 2. Lonica japonica 3. 4.	_55	= Total C	over er: 11 FAC PACU	height. - Hydrophytic
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans: 2. Lonscens japonica 3. 4. 5.	55 5 20% (5 20% (= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15×15) 1. Toxicodnohon radicans: 2. Lonica japonica 3. 4.	55 5 20% (5 20% (= Total C	over er: 11 FAC PACU	height. - Hydrophytic
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans: 2. Lonican japonica 3. 4. 5.	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnobon radicans. 2. Lonican japanica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation
10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 15x/5) 1. Toxicodnohon radicans. 2. Lonica japonica 3. 4. 5. 50% of total cover: 3.5	55 20% (5 20% (7 20%	= Total Co	over er: 11 FAC PACU	height. Hydrophytic Vegetation

Profile Desc	ription: (Describe	to the depti	needed to docum	nent the in	ndicator or	confirm	the absence c		s.)	
Depth	Matrix			x Features		· · · · · · · ·				}
(inches) ローみの	Color (moist) 101R 5/6	<u>%</u>	Color (moist)	· · · 	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-80	1012314	00					finesunc	<u> </u>		
				· ——					_	
		 -					 	`		Ì
				<u> </u>				==		
		- -								
¹ Type: C=C	oncentration, D=Dep	eletion, RM=	Reduced Matrix, M	S=Masked	Sand Grai	ns.	² Location:	PL=Pore Lir	ning, M=Ma	rix.
1 '	Indicators: (Applic	able to all L			•		Indicators 1			
Histoso			Polyvalue Be					uck (A9) (L1		
. =	pipedon (A2) istic (A3)		☐ Thin Dark Su ☐ Loamy Muck					uck (A10) (i		351 D A 450 A B)
	en Sulfide (A4)		Loamy Gley			0,				MLRA 150A,B) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		,				Loamy Soils	
	Bodies (A6) (LRR F		Redox Dark	•	•		(MLR	A 153B))
	ucky Mineral (A7) (L resence (A8) (LRR l		Depleted Da					rent Materia	al (TF2) Surface (TI	(42)
	uck (A9) (LRR P, T)	ر.	Marl (F10) (I	-	o)			Explain in F		12)
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 15	1)	(
	ark Surface (A12)		Iron-Mangar				•			etation and
	Prairie Redox (A16) (Mucky Mineral (S1) (.) Umbric Surfi Delta Ochric			U)			ogy must be d or probler	•
	Gleyed Matrix (S4)	Little 0, 0,	Reduced Ve			A, 150B)		sas uistui DC	a or probler	iatic.
-	Redox (S5)		Piedmont FI							Ì
	d Matrix (S6)			Bright Loa	my Soils (F	20) (MLR	RA 149A, 153C	, 153D)		ł.
	urface (S7) (LRR P, Layer (if observed			•			1		 	
Type:		<i>,</i>								
1 –	nches):						Hydric Soil	Present?	Yes	No
Remarks:										
										ļ
										Į
										•
Į					•					
1										
		,								
									•	



Upland data point wsuo010_u facing south.



Upland data point wsuo010_u facing north.

Photo Sheet 2 of 2

Project/Site: Atlantic Coast Pipeline	•	City/C	ounty: City of Suffolk		Sampling Date: 2/24/2016
Applicant/Owner: DOMINION				State: VA	Sampling Point: wsuc111f_w
Investigator(s): Team C		Section	on, Township, Range: N		
Landform (hillslope, terrace, etc.): F					
					Datum: WGS 1984
Soil Map Unit Name: Torhunta loan		Lat:			
•			· • • · · ·		
Are climatic / hydrologic conditions					
Are Vegetation, Soil				al Circumstances"	present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS -	- Attach site m	ap showing sam	pling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?	Soil Present?		Is the Sampled Area	V	,
Wetland Hydrology Present?		No	within a Wetland?	Yes	, No
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of on	ve is required: check	r all that annly)		Surface Soil	
✓ Surface Water (A1)	-	ıatic Fauna (B13)			getated Concave Surface (B8)
✓ High Water Table (A2)		ialic Fauria (B13) 1 Deposits (B15) (LRF	S II)	<u>✓</u> Drainage Pa	
Saturation (A3)		rogen Sulfide Odor (C		Moss Trim L	
Water Marks (B1)		-	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		sence of Reduced Iron		Crayfish Bur	
Drift Deposits (B3)	Red	cent Iron Reduction in	Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thir	n Muck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		er (Explain in Remark	s)	Shallow Aqu	
Inundation Visible on Aerial In	nagery (B7)			FAC-Neutral	
Water-Stained Leaves (B9)			T T	Sphagnum r	moss (D8) (LRR T, U)
Field Observations:	√ N-	(harataan), 6			
	es No				
Water Table Present? Ye	es	Depth (inches): 0	Wetlend	· · · · · · · · · · · · · · · · · · ·	10 V V No
Saturation Present? Ye (includes capillary fringe)	es <u>*</u> No	Depth (inches):	wetiand	Hydrology Presei	nt? Yes V No
Describe Recorded Data (stream of	gauge, monitoring w	ell, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:					
Wetland hydrology present					

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Liquidambar styraciflua	15	Yes	FAC	Total Number of Dominant
3. Pinus taeda	5	No	FAC	Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are ORL FACW or FAC: 100
•				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	40			OBL species0 x 1 =0
30		= Total Cov	_	FACW species x 2 = 40
50% of total cover:	20% of	total cover:	8	40 120
Sapling/Shrub Stratum (Plot size: 15)				FAC species $\frac{40}{0}$ x 3 = $\frac{120}{0}$
1				FACU species x 4 =
2				UPL species $0 \times 5 = 0$
3.				Column Totals: (A) (B)
4.				Prevalence Index = R/A = 2.66
г				1 Tevalence mack - B/A -
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				✓ 3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	20	Yes	FACW	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
				John Michiel Co. 1 Car. 1 Ogeration Carata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				W
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight.
12.	20	= Total Cov		
50% of total cover: 10				
30 % of total cover.	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5.				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No
30 % of total cover		total cover.		
Remarks: (If observed, list morphological adaptations belo	W).			

SOIL Sampling Point: <u>wsuc111f_w</u>

	Matrix					or committe	the absence	or maleators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Feature %	s Type ¹	Loc ²	Texture	Remarks
0-10	10 YR 4/1	95	10 YR 4/6	5	C	PL/M	SC	romano
10.10	5 Y 6/1	07	5 Y 6/6					
10-18	5 Y 6/1	97	5 Y 6/6		C	M		
				-				
	-							
				-				
1 _T C-C	Name and the state of the state	Lation DM	-Dadward Matrix M	C-Maaka		-:	21	DI - Dana Limina M-Matrix
	Concentration, D=Dep Indicators: (Application)					ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
-		able to all				DD 0 T 11		•
Histoso	` '		Polyvalue Be					luck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
	listic (A3) en Sulfide (A4)		Loamy Muck Loamy Gleye			. 0)		ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		✓ Depleted Ma		F2)			llous Bright Loamy Soils (F20)
	c Bodies (A6) (LRR P ,	T 11\	Redox Dark	. ,	:6)			RA 153B)
_	ucky Mineral (A7) (LR			•	,		•	arent Material (TF2)
	resence (A8) (LRR U		Redox Depre		. ,			hallow Dark Surface (TF12)
· — ·	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	0)			Explain in Remarks)
· — ·	ed Below Dark Surface	e (A11)	Depleted Oct		(MLRA 1	51)		,,
-	ark Surface (A12)	,	Iron-Mangan	. ,	•	•	T) ³ Indica	ators of hydrophytic vegetation and
	Prairie Redox (A16) (N	ILRA 150						land hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric			•		ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			0A, 150B)		·
	Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 149	9A)	
Strippe	d Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C,	, 153D)
Dark St	urface (S7) (LRR P, S	, T, U)						
•								
	Layer (if observed):							
Restrictive Type:	Layer (if observed):						Hydric Soil	Present? Yes Vo
Restrictive Type: Depth (in	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes No
Restrictive Type: Depth (in	Layer (if observed):						Hydric Soil	Present? Yes No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes <u>V</u> No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (in Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No
Restrictive Type: Depth (ir Remarks:	Layer (if observed):						Hydric Soil	Present? Yes V No No



Photo 1
Wetland data point WSUC111f_w facing east



Photo 2
Wetland data point WSUC111f_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	County: City of Suffolk		Sampling Date: 2/24/2016	
Applicant/Owner: DOMINION				State: VA	Sampling Point: wsuc111_u	
Investigator(s): Team C		Section	on, Township, Range: _			
Landform (hillslope, terrace, etc.): Sli						
					Datum: WGS 1984	
Soil Map Unit Name: Torhunta loam		_ Lat				
				NWI classifi		
Are climatic / hydrologic conditions or						
Are Vegetation, Soil,				al Circumstances"	present? Yes No	
Are Vegetation, Soil,	or Hydrology	_ naturally problemate	atic? (If needed	, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site ma	ıp showing san	npling point locat	ions, transects	s, important features, etc.	
Hydrophytic Vegetation Present?	Yes 🗸	No				
lydric Soil Present? Yes			Is the Sampled Area		1	
Wetland Hydrology Present?	Yes	No 🔽	within a Wetland?	Yes	No	
Westland Hydrology Indicators				Cocondon/Indio	atora (minimum of two required)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one	is required; check	all that apply)		-	ators (minimum of two required) Cracks (B6)	
Surface Water (A1)	-	atic Fauna (B13)			getated Concave Surface (B8)	
High Water Table (A2)		Deposits (B15) (LR I	R U)		atterns (B10)	
Saturation (A3)		ogen Sulfide Odor (Moss Trim L		
Water Marks (B1)		-	along Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bu		
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6)		isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Muck Surface (C7)			Position (D2)	
Iron Deposits (B5)		r (Explain in Remarl	(S)	Shallow Aqu		
Inundation Visible on Aerial Ima Water-Stained Leaves (B9)	igery (B7)			FAC-Neutra	l Test (D5) moss (D8) (LRR T, U)	
Field Observations:			<u> </u>	Spilagilulii i	11088 (D0) (LNN 1, U)	
	No 🗸	Depth (inches):				
		Depth (inches):				
		Depth (inches):		Hydrology Prese	nt? Yes No	
(includes capillary fringe)						
Describe Recorded Data (stream ga	luge, monitoring we	ell, aerial photos, pre	evious inspections), if a	vailable:		
Remarks:						
No wetland hydrology present						
l l l l l l l l l l l l l l l l l l l						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1. Pinus taeda	60	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6666666 (A/B)
^				That Are OBL, FACW, or FAC.
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	60			OBL species0 x 1 =0
FOOV of total aguary 30		= Total Cov	12	FACW species 40 x 2 = 80
50% of total cover.	20% of	total cover:		FAC species 60 x 3 = 180
Sapling/Shrub Stratum (Plot size:)				45 00
1				FACU species $\frac{15}{0}$ x 4 = $\frac{60}{0}$
2				UPL species
3				Column Totals: (A) (B)
4				Prevalence Index = B/A = 2.78
F				T Tevalcinec index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			✓ 3 - Prevalence Index is ≤3.0¹
		= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:0	20% of	total cover:	0	
Herb Stratum (Plot size: 5)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	40	Yes	FACW	be present, unless disturbed or problematic.
2 Lonicera japonica	15	Yes	FACU	Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
···				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	55	= Total Cov	er	
50% of total cover: 27.5				
	20 /0 01	total cover.		
(
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Terraines. (Il observed, list morphological adaptations belo	vv).			

SOIL Sampling Point: wsuc111_u

Profile Des	cription: (Describe t	o the depth r	needed to docur	nent the i	indicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-18	10 YR 2/1	100					SL	
				-	• •			
				-	-			
				-				
¹ Type: C=C	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL	_=Pore Lining, M=Matrix.
	Indicators: (Applica						Indicators for	r Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S. T. U) 1 cm Muc	ck (A9) (LRR O)
	pipedon (A2)	-	Thin Dark Su					ck (A10) (LRR S)
	istic (A3)	-	Loamy Muck					Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	-	Loamy Gleye	-		/		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	-	Depleted Ma		,			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U)	Redox Dark		- 6)		(MLRA	
_	ucky Mineral (A7) (LR		Depleted Dai		•			nt Material (TF2)
	resence (A8) (LRR U)		Redox Depre					llow Dark Surface (TF12)
	uck (A9) (LRR P, T)	-	Marl (F10) (L		- ,		-	plain in Remarks)
	d Below Dark Surface	(A11)	Depleted Ocl		(MLRA 1	51)		,
	ark Surface (A12)	. ,	 Iron-Mangan				T) ³ Indicate	ors of hydrophytic vegetation and
	Prairie Redox (A16) (M	LRA 150A)	Umbric Surfa					d hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)	. , -	Reduced Ver			0A, 150B)		·
	Redox (S5)	_	Piedmont Flo				9A)	
-	d Matrix (S6)						A 149A, 153C, 15	53D)
	ırface (S7) (LRR P, S	, T, U)		•	,			
	Layer (if observed):							
Type:			<u></u>					
Depth (in	ches):						Hydric Soil Pro	esent? Yes No
Remarks:	,						,	
	l nrocent							
No hydric soi	i present							



Photo 1 Upland data point WSUC111_u facing east



Photo 2
Upland data point WSUC111_u facing northeast

A 0	FORW - Atlantic and Guit Coastal Plain Region
Project/Site: / \ C \	City/County: Saffolk Sampling Date: 7/21/15
Applicant/Owner: Domin ion	State: VA Sampling Point: Wsur OOIF. W
Investigator(s): ESI-T. Miller, K. Murphrey	
Landform (hillslope, terrace, etc.): (PFTEX)(27)	Local relief (concave, convex, none): <u>CONCAVE</u> Slope (%): <u>O-2</u> 77090 Long: 76.46821 Datum: W658
Subregion (LRR or MLRA): LRK Lat: 50,	11040 Long: -16.4682 Datum: W65 8
Soil Map Unit Name: TO Chunta luam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year	
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? YesNo
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply	F-100
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) Field Observations	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Uced Iron (C4) Uction in Tilled Soils (C6) Se (C7) Remarks) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Se (C7) Remarks) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	es): NA
Water Table Present? Yes V. No Depth (inche	es): Surface Wetland Hydrology Present? Yes No
Remarks:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3054 X 3254)		Species?		
1. Acer rubium	SO	V	FAC	Number of Dominant Species
		-/-		That Are OBL, FACW, or FAC: (A)
2. Pinus toeda		7	FAC	Total Number of Dominant
3. Querius nigra	20	\vee	FAC	Total Number of Dominant Species Across All Strata: (B)
- 				Opedies Adioes Ali Strata,(B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				(13)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				1
	75	= Total Co	ver	OBL species x 1 =
50% of total cover: <u>37</u>	5000	cuen letet 3		FACW species x 2 =
700 or total cover: 57	<u>/ -</u> 20% 0	r total cove	r: <u> </u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3074 3054)				I I
1. Liguston sinense	S	٨/	FAC	FACU species x 4 =
2. QUEXIUS NIONA		\/	FAC	UPL species x 5 =
2. 3.07.71.01.3 1110/122		7	-00	Column Totals:(A)(B)
3. Acer runrum	<u> </u>	<u> </u>	(-nC	Column Totals (A) (B)
4		1.		
1				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6	- —			Rapid Test for Hydrophylic Vegetation
7				The reaction regarded vegetation
•		-		2 - Dominance Test is >50%
8	·			3 - Prevalence Index is ≤3.01
	65	= Total Co	over _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 32	,5 _{20% o}	f total cove	13	Life 1 roblematic mydrophytic vegetation (Explain)
2/61 /3/8+	20 % 0	i lotal cove	4. <u> </u>	
Herb Stratum (Plot size: 306+ X306+	10	\ \	A	¹ Indicators of hydric soil and wetland hydrology must
1. Avundinaria gigontea	10	7	FACW	be present, unless disturbed or problematic.
2. Modwardie Vivginica	10	$\overline{\nabla}$	FACW	Definitions of Four Vegetation Strata:
		- \/	- '	Deminions of Four vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
i e				height.
5				Tioignt.
6	_			Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
i e e e e e e e e e e e e e e e e e e e				·
8				1101 1 1 1 1 1 1 1 1
9				of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine - All woody vines greater than 3.28 ft in
11.				. height.
12				_
	30	_ = Total C	over	
		_	1	
50% of total cover: 10	<u>) </u>	of total cov	er:	.
Woody Vine Stratum (Plot size: 306+X306+	_	٠.	_	· i
1. Witis votantisoria	5	Y	FAC	
	- - 		- } \\ \	-
2. Smilax rotandifolia	_ <u> </u>		<u> </u>	
3		•		
•				-
4				_
5.				Undvanhodia
		_ = Total (- Hydrophytic Vegetation
9				1 = V
50% of total cover: 3	<u>(</u>	of total co	ver: 1/ T	Present? Yes No No
Remarks: (If observed, list morphological adaptations be	ejow)			
incimanto: (in observed, list morphological adaptations as	C1011/.			
İ				
1				

Profile Description: (Describe to the depth needs	ed to document the ind	licator or confirm	the absence of indicat	tors.)
Depth Matrix (inches) Color (moist) % Color	Redox Features (moist) %	Type ¹ Loc ²	Ta. 4	
0-5 104R 2/1 100	r (moist) %	1	Texture (a)	Remarks
			Mucky Sond	
			silfy Sond	
18-20 GIEGISN 100			Clay	
			<u> </u>	
		,		
				
¹ Type: C=Concentration, D=Depletion, RM=Reduce	d Matrix MS=Masked S	and Grains	² Location: PL=Pore	Lining MaMatrix
Hydric Soil Indicators: (Applicable to all LRRs, u			Indicators for Probl	ematic Hydric Soils ³ :
☐ Histosol (A1) ☐ F	olyvalue Below Surface	(S8) (LRR S, T, U)		·
	hin Dark Surface (S9) (I		2 cm Muck (A10)) (LRR S)
	oamy Mucky Mineral (F		Reduced Vertic	(F18) (outside MLRA 150A,B)
	.oamy Gleyed Matrix (F2 Depleted Matrix (F3)	2)	Piedmont Flood	plain Soils (F19) (LRR P, S, T)
	Redox Dark Surface (F6)		(MLRA 153B)	nt Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F		Red Parent Mate	
	Redox Depressions (F8)			rk Surface (TF12)
	Mari (F10) (LRR U)	JI DA 4541	Uher (Explain in	n Remarks)
	Depleted Ochric (F11) (M ron-Manganese Masses	-	T) 3Indicators of b	ydrophytic vegetation and
	Jmbric Surface (F13) (LI			ology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (ML R	A 151)	unless distur	bed or problematic.
	Reduced Vertic (F18) (M	•		
	Piedmont Floodplain Soi Anomalous Bright Loamy			
Dark Surface (S7) (LRR P, S, T, U)	Anomalous origin coam	y Suiis (FZU) (MILK	A 149A, 153C, 153D)	
Restrictive Layer (if observed):			- - -	
Type:				· ·
Depth (inches):			Hydric Soil Present	? Yes No
Remarks:			-	
\ 				
·				
,	L			
1				
·				
Í				



Wetland data point wsur001f_w facing south southwest



Wetland data point wsur001f_w facing east

Project/Site: ACP	Citv/County:	suffull<		Sampling Date: 7/21/14
Applicant/Owner: DOMINION	- , , –	S	State: VA	Sampling Point: Wsur OOL-U
Investigator(s): EST-T. Miller, IC, Marthrey	_ Section, Town			
Landform (hillslope, terrace, etc.): access wad	_ Local relief (co	ncave, convex, r	none): Flat	Slope (%): 0-2
Subregion (LRR or MLRA): LR RT Lat: 36.	דרטקר	Long:	76.4682	1 Datum: W65 8
Soil Man Unit Name: TOYhunta (com			MMI classific	ation: NA
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes	No(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significant				oresent? Yes No
Are Vegetation, Soil, or Hydrology naturally p	-		xplain any answe	
SUMMARY OF FINDINGS – Attach site map showin			•	•
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the	Sampled Area a Wetland?		No
road bed on fill material				
HYDROLOGY ,				
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	v)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (8	•			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B				atterns (B10)
☐ Saturation (A3) ☐ Hydrogen Suifide			Moss Trim I	Lines (B16)
Water Marks (B1) Unique Children	•	ing Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Presence of Rec		rella (OC)	Crayfish Bu	- ·
☐ Drift Deposits (B3) ☐ Recent Iron Red☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfa		oolis (Co)		/isible on Aerial Imagery (C9) c Position (D2)
Iron Deposits (B5) Other (Explain in			Shallow Aq	
Inundation Visible on Aerial Imagery (B7)	•		FAC-Neutra	
Water-Stained Leaves (89)			Sphagnum	moss (D8) (LRR T, U)
Field Observations:				
	nes): <u>NA</u>			
Water Table Present? Yes No Depth (inch	nes): > \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nes		
Saturation Present? Yes No Depth (includes capillary fringe)	hes):	Wetland	Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pt	hotos, previous i	nspections), if av	railable:	
Remarks: could not anyer past 2 in Hydrology indicators (satu- in adjacent wetland Assume hydrology indicate	nches in tration at d. Only or met	road by surface a few at lea	oed. ce, water inches e st for	table at surface) levation different saturation.
115500 12 17 157				

7.5.150	Absoluto	Dominant	Indicator	Dowing. Test
Tree Stratum (Plot size: 3084 X 3584)		Species?		Dominance Test worksheet:
1. none	70 00101	Openies:	Otatus	Number of Dominant Species 4
,				That Are OBL, FACW, or FAC:(A)
2.				Total Number of Dominant
3,				Species Across All Strata: (B)
4				Opedies Actions All Ottata.
				Percent of Dominant Species Q1) 1
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	$\overline{}$			OBL species x 1 =
	O	= Total Co	ver	
50% of total cover:	20% of	total cover	•	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 308+X308+				FAC species x 3 =
1. Diospridis Virginiano	10	N	FAC	FACU species x 4 =
			`	
2. Arer Vulorum	30	$\overline{\mathcal{A}}$	FAC	UPL species x 5 =
3. Liquistiam sinerse	5	Κl	FAC	Column Totals: (A) (B)
4. Liquidornbow Stataciscus	10	N	FAC	
	5			Prevalence Index = B/A =
5. Cosua gabra		7	FACY	Hydrophytic Vegetation Indicators:
6			. <u>-</u>	1 Rapid Test for Hydrophytic Vegetation
7			·	Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8		-		3 - Prevalence Index is ≤3.01
	_00	= Total Co	ver _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>30</u>				E i robiernade riyaropriyae vegetation (Explain)
Herb Stratum (Plot size: 30 F+X 30 F+		10(01 0010	·· 	
		\vee	120	Indicators of hydric soil and wetland hydrology must
1. Microstegiam vimineum	<u> </u>		FAC	be present, unless disturbed or problematic.
2. Arundinaria gigantea	<u>.5</u>	\checkmark	FACW	Definitions of Four Vegetation Strata:
,		- /-		
3			· —	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
				or one of the woody plants less than 5.20 it tall.
10		•		Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	10	- Total C		
_		_= Total Co	()	
50% of total cover:	> 20% (of total cove	er:	
Woody Vine Stratum (Plot size: 34+ X35+)		1.7	_	
1. Parthenocissus quinque Forto	5	Y	FAC	
2. Lonicera Japonica			7.4.01	
2. LUMCETA JAPONICA		/-	PACO	<u>'</u>
3				. [
4				
5				• [
J 0	- '			- Hydrophytic
	<u>, (U</u>	_ = Total C	over	Vegetation
50% of total cover:	> 20%	of total cov	er: 2	Present? Yes No
				·
Remarks: (If observed, list morphological adaptations be	iow).			

Depth (inches)	Life and a second	•				i commi	the absence	or manout	,	
(inches)	Matrix Color (moist)	<u></u> %	Color (moist)	ox Features %	Type	Loc ²	Texture		Remarks	
0-2		100						CNA	Past	
<u> </u>										
	 						 -	Fill	make	1/4/
	<u> </u>					 .				
										_
									_	
		·								<u>_</u>
	oncentration, D=Dept					ins.			ining, M=Ma	
_	Indicators: (Applica	abie to ali L			•				matic Hydri	c Soils*:
Histosol	i (A1) pipedon (A2)		Polyvalue B					Muck (A9) (
=	listic (A3)		Thin Dark S Loamy Muc		-	•		Muck (A10)		- 331 D A 450 A D
=	en Sulfide (A4)		Loamy Gley			Ο,				e MLRA 150A,B) 9) (LRR P, S, T)
= -	d Layers (A5)		Depleted Ma		,				t Loamy Soil	
	Bodies (A6) (LRR P,	, T, U)	Redox Dark		6)			RA 153B)		o (. 20)
	ucky Mineral (A7) (LF		Depleted Da	ark Surface	(F7)		☐ Red F	Parent Mate	rial (TF2)	
- ,	resence (A8) (LRR U)	Redox Dep	•	8)				k Surface (T	F12)
	uck (A9) (LRR P, T)			•			L Other	(Explain in	Remarks)	
	ed Below Dark Surface	e (A11)	Depleted O			-	- 3			
=	ark Surface (A12) Prairie Redox (A16) (N		lron-Manga Umbric Suri ☐ (•		drophytic ve	
_	Mucky Mineral (S1) (L		Delta Ochri			, 0)			logy must be ed or proble	
_	Gleyed Matrix (S4)	-, ., , . ,	Reduced V			OA. 150B)		ness distait	ed or proble	mano.
_	Redox (S5)		Piedmont F			-				
	d Matrix (S6)						A 149A, 153	C, 153D)		
	urface (S7) (LRR P, S									
Restrictive	Layer (if observed):	:								
Туре:							1			1
Depth (ir	nches):						Hydric So	il Present?	Yes	No
Remarks:										
		alsa	er past	2	inch	es. (nnige	ct A	11 -	احن صا
C	ton blur		- 1		4		- O p-		II MACK	ice isol
Co	suld not		^				•			
Co	suld not (few inc	hes)	for road	d be	Ø ,		·			
Co	suld not (few inc	hes)	for road	or be	Θ,					
C	suld not (few inc	hea)	for road	or be	ρ,					
C ₍	suld not (few inc	hes)	for road	d be	Θ,					
C	suld not (few inc	hea)	for road	or be	0,					
Ci	suld not (few inc	hea)	for road	or be	<i>o</i> ,					
Ci	suld not (few inc	hes)	for road	d be	<i>,</i>					
Ci	suld not (few inc	hes)	for road	d be	<i>,</i>					
Ci	suld not (few inc	hes)	for road	d be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	d be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	O be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	O be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	O be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	O be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	O be	<i>•</i> ,					
Ci	suld not (few inc	hes)	for road	d be	0,					
Ci	suld not (few inc	hes)	for road	d be	<i>•</i> ,				·	
Co	suld not (few inc	hes)	for road							
Co	suld not (few inc	hes)	for road							
Ci	suld not (few inc	hes)	for road							



Upland data point wsur001_u facing east



Upland data point wsur001_u facing west

Project/Site: ACP	City/County: SUFFO	NIC	Sampling Date: 7/21/15
Applicant/Owner: Ominion	only obtained:	State: VA	Sampling Point: Wour 002f_W
Investigator(s): EST-T. Miller, K. Murphirey	Section, Township, Range	. NA	
Landform (hillsland tarrage ata), deptession	Local relief (concerns	(006	ave Slope (%): 0-2
Subregion (LRR or MLRA): URRT Lat: 36	77105 Lon	76,468	Slope (%): 0-2 Datum: W6584
Soil Map Unit Name: TOTNUMTA (JOM	2011	NIMI classific	pation: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	or2 Ves 1 No		
Are Vegetation, Soil, or Hydrology significantly			present? Yes No No
Are Vegetation, Soil, or Hydrology naturally pr			
		led, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin	sampling point loc	ations, transects	s, important features, etc.
Hydrophytic Vegetation Present? YesNo	la the Complet to		
Hydric Soil Present? YesNo	Is the Sampled Ar within a Wetland?		No
Wetland Hydrology Present? Yes No	Within a Welland	165	NO
Remarks:			
,			ĺ
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		r -	I Cracks (B6)
Sufface Water (A1) Aquatic Fauna (B	13)		egetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	5) (LRR U)	Drainage P	atterns (B10)
Saturation (A3)		Moss Trim	
	heres along Living Roots (0	TT /	n Water Table (C2)
Sediment Deposits (B2) Presence of Red Presence of Red		Crayfish Bu	• •
☐ Drift Deposits (B3) ☐ Recent Iron Reduit ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	ction in Tilled Soils (C6)		Visible on Aerial Imagery (C9) c Position (D2)
Iron Deposits (B5) Other (Explain in		☐ Shallow Aq	· · ·
Inundation Visible on Aerial Imagery (B7)	•	_	al Test (D5)
Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)
Field Observations:	NIA	-	
Surface Water Present? Yes No Depth (inch	s): NA		
Water Table Present? Yes No Depth (inch Saturation Present? Yes No Depth (inch present)	s): SALORE	dan dilladada ta ca Ba	√ N
(includes capillary fringe)	ì	land Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections),	, if available:	
Remarks:			
			:
1			
ļ			
			

Tree Stratum (Plot size: 308+ X 308+)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 500 17 5001)		Species?	Status	Number of Dominant Species
1. Pinus toreda			+A-C	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum 3.	40	<u>Y.</u>	FAC	Total Number of Dominant Species Across All Strata: (B)
4				
5 6,				That Are OBL, FACW, or FAC: 0 0 10 (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	45	= Total Cov	/er .	OBL species x 1 =
50% of total cover: 22	5 20% of	I total cover	<u> </u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f+X 30f+)	<u>~_</u> 2076 01	i total cover	· ——	FAC species x 3 =
Sapind/Sitrou Stratum (Plot size: 30 1/2 3011)	<	кl	FAC	FACU species x 4 =
1. Liquidombar styraciflua	<u>)</u>	14		
2. Lign Strum Sinens-e	15	<u>y</u>	FAC	UPL species x 5 =
3. QUEFUS DISTA	20	<u> </u>	FAC	Column Totals: (A) (B)
4			· —	Prevalence index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	40	= Total Co	ver	l — ·
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 308+ X 306+)			FACW	Indicators of hydric soil and wetland hydrology must
1. Arunalearia gigantea		,		be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3 4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6 7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10 11				Woody vine – All woody vines greater than 3.28 ft in height.
12				, , ,
	5	= Total Co	over .	
50% of total cover: 2.1	5 20%	of total cove		
Woody Vine Stratum (Plot size: 30FF X 30FF)	2070 (JI (OLAI COVE	al	1
1. Lenices Japanica	/	\vee	FACU	,
		- - (, , , , , , , , , , , , , , , , , , 		
2. Parthenorissus quinquetaia	10	_ —————————————————————————————————————	<u> FAC</u>	.
3. Vitis VolundiFolia	5	_	<u>FAC</u>	
4.		/		
5.		•		
·	20	- 		Hydrophytic
		_ = Total C	7.1	Vegetation Present? Yes No
50% of total cover: 1C	20%	of total cov	er: <u>"T"</u>	- }
Remarks: (If observed, list morphological adaptations be	low).			
1				
				•
1				
				κ

Depth	tion: (Describe t Matrix	o the depth		ox Features		er contirm	n the absence	of indicator	'S.)	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	•	Loc ²	Texture		Remarks	
0-6 10	DUR7/1	190					Macky	Sord		
6-18 6	1841 6/N	w				•	51145	>02/4		
	124 16/N	100					Sondy			
<u></u>							- CONTEM	<u> </u>		
				 						
										
	entration, D=Depl					iins.			ning, M=Matrix.	
	icators: (Applica	able to all LF			•				natic Hydric S	oils³:
Histosol (A1			Polyvalue E					luck (A9) (L		
Histic Epipe			☐ Thin Dark S					/luck (A10) (. D. 4504 D
Hydrogen S	• •		Loamy Gley			Ο,			18) (outside M in Soils (F19) (
Stratified La			Depleted M		,				Loamy Soils (F	
Organic Boo	dies (A6) (LRR P,	T, U)	Redox Dark		6)			RA 153B)		,
	/ Mineral (A7) (LR		Depleted D				Red P	arent Materi		
	ence (A8) (LRR U)	Redox Dep		8)				Surface (TF12	2)
	(A9) (LRR P, T)		☐ Marl (F10)	•			L Other	(Explain in F	Remarks)	
	elow Dark Surface Surface (A12)	e (A11)	Depleted C		-	-	31			
=	ie Redox (A12)	NI RA 150A)	☐ Iron-Manga☐ Umbric Sur						rophytic vegeta ogy must be pre	
	ky Mineral (S1) (L			ic (F17) (MI		, 0,		-	d or problemati	
Sandy Gley				ertic (F18)		0A, 150B)		000 01010100	a or problema	
📃 Sandy Redo	ox (S5)			-loodplain S						
Stripped Ma	, ,		Anomalous	Bright Loa	my Soils (F20) (MLF	RA 149A, 1530	C, 153D)		
	ce (S7) (LRR P, S						 			
-	er (if observed):									
Type:									L/	
	es):						Hydric Soi	Present?	Yes	No
Remarks:										
	•									
									i.	
				٠						
		•								
					•					
									,	
									•	



Wetland data point wsur002f_w facing north northeast



Wetland data point wsur002f_w facing east southeast

Project/Site: ACP	City/County: Suf FUIS Sampling Date: 7/21/15
Applicant/Owner: DOMINION	State: VA Sampling Point: Wsur 002-u
Investigator(s): EST-T. Miller, IX, Murphrey	Section Township Page: NA
	Local relief (concave, convex, none): Flot Slope (%): 0-2
Subregion (LRR or MLRA): LR RT Lat: 36,	77097 Long: -76,46824 Datum: W65 84
Soil Map Unit Name: TOYhanta (com	A
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantle	
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No V	within a Wetland? Yes No
	Sec.
road bed on fill material	
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) Aquatic Fauna (E	Sparsely Vegetated Concave Surface (B8)
High-Water Table (A2) High-Water Table (A2) Harl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
☐ Sediment Deposits (B2) ☐ Presence of Red ☐ Drift Deposits (B3) ☐ Recent Iron Red	duced Iron (C4) Crayfish Burrows (C8) Luction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	
Iron Deposits (B5) Other (Explain in	
inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	0:2
· · · ·	nes): NA
Water Table Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches)	nes): 2 inches Wetland Hydrology Present? Yes V
Saturation Present? Yes No Depth (Includes capillary fringe)	les): 224 CAS Wetland Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, monitoring well, aerial pl	notos, previous inspections), if available:
Remarks: could not auger past 2 inches	in road bed.
1 . In the base (Cost	huration at surface water table at surface)
Hydrology indicators (san	of solver Consider along the difference
in adjacent wetlan	a, only & HEW Thinks Elevation afforme
Assume hidrology india	huration at surface, water table at surface) d. Only a few inches elevation difference castor met at least for saturation.
1,7,7,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,	-
`	

-				Odriping Forte
Tree Stratum (Plot size: 308+ X368+)		Dominant Species?		Dominance Test worksheet:
Tiee Stratum (Plot size:	% Cover	Species	Status	Number of Dominant Species 4
1. None				That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
				Opedies Across Air Strata.
4				Percent of Dominant Species (1) 1
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				·
7				Prevalence Index worksheet:
				Total %_Cover of: Multiply by:
8				OBL species x1 =
	<u> </u>	= Total Co	ver	
50% of total cover:	_ 20% o	f total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 38+1 38+1				FAC species x 3 =
1. Diospryos Virginiano	10	N	FAC	FACU species x 4 =
			<u>` </u>	
2. Arer rubrum	30	. <u> </u>	FAC	UPL species x 5 =
3. Liaustum Sinerse	5	Ń	FAC	Column Totals: (A) (B)
4. Liquidombor Statacifica	10	N	FAC	
	<u> </u>			Prevalence Index = B/A =
5. Corno glabra	<u> </u>	7	FACU	Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7.				1 1 1 2 2 1
		·	•	2 - Dominance Test is >50%
8.	(.()		·	3 - Prevalence Index is ≤3.01
_	<u></u>	_= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 30) _{20% c}	of total cove	r: (2	
Herb Stratum (Plot size: 30 F+X 30 F+		J. 10101 00 10	··· <u></u>	1
	_	\vee	FAC	¹ Indicators of hydric soil and wetland hydrology must
1. Microstegiam vimineum			- 	be present, unless disturbed or problematic.
2. Arurdinaria gigantea	- 5	\checkmark	FACW	Definitions of Four Vegetation Strata:
3 3 3			-	
			- 	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Continuit the Manda along a such allows the long
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				· Color of the Color and greater than 3.20 ft (1 m) tail.
8				Herb - All herbaceous (non-woody) plants, regardless
9				
10.				**Oddy ville - All woody villes greater than 3.20 it in
11				_ height.
12		_		
	10	_ = Total C	'myer	
			• ,	•
50% of total cover:	<u>-></u> 20%	of total cov	er:	_
Woody Vine Stratum (Plot size: 3 + X 3 +)		\ /		
1.Parthenocissus quinque Foito	5	Y	FAC	_
		· /	- 4-61	
2. Lonicera Japonica	>		_ <u> </u>	<u>^</u>
3				}
			_	_
\dagger 4				-
				1
5				- Hydrophytic
5	-70	= Total (Oover	- Hydrophytic Vegetation
	<u>70</u>	= Total		- Hydrophytic Vegetation Present? Yes No
50% of total cover:		= Total 0 6 of total co		Vegetation
				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation
50% of total cover:				Vegetation

nches)				x Features						
. · .	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc*	Texture		Remarks	
<u> </u>	104R3/H	_10U_					_	CNA	Past	2''
								Fill	mate	(a)
	· -									
							-		·	
										_
								-		
										
									_	
	Concentration, D=Dep Indicators: (Applic					ins.	Location	PL=Pore	Lining, M≃Ma ematic Hydri	itrix.
Histoso		able to all Li	Polyvalue B		-	PP C T IIV		Muck (A9)	-	c Solls :
	pipedon (A2)		Thin Dark S					Muck (A9)		
4	listic (A3)		Loamy Mucl						•	e MLRA 150A,B
	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		1 1			9) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma	, ,				-	nt Loamy Soil	s (F20)
	Bodies (A6) (LRR P		Redox Dark					.RA 153B)	-:-! <i>(TE</i> 0)	
	lucky Mineral (A7) (Ll Presence (A8) (LRR U		Depleted Da						erial (TF2) irk Surface (T	E49\
	luck (A9) (LRR P, T)	• •	Marl (F10) (0,				Remarks)	r 12)
	ed Below Dark Surfac	e (A11)	Depleted O	•	(MLRA 1	51)		(
•	ark Surface (A12)		Iron-Manga				•		ydrophytic ve	-
3	Prairie Redox (A16) (, U)		-	ology must be	•
-	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR O, S)	Delta Ochri			0 A 4 E 0 E 0	u	nless distur	bed or proble	matic.
-	Redox (S5)		Reduced V				9Δ1			
	ed Matrix (S6)						од, A 149A, 153	C, 153D)		
	urface (S7) (LRR P,	S, T, U)		Ü	•	, ,		.,,		
estrictive	Layer (if observed):			•					
Type:										l.more
Depth (i	nches):						Hydric Sc	oil Present	? Yes	No
·	.ld not a	user	past 2	incl	us.	Comi	pact 1	311 m	aterial	(tew
	uld not a inches)	uger for r	past 2 oad be	inch	185 .	Comp	oact 1	₹11 m	aferial	(tew
	uld not a inches)	uger for r	past 2 oad be	inch	1	Comp	oact 1	₹11 M	aterial	(tew
	uld not a inches)	uger for r	past 2 oad be	inch	185 .	Comp	oact 1	₹11 M	aterial	(tew



Shared Upland data point wsur002_u facing east



Shared Upland data point wsur002_u facing west

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP City/County: Applicant/Owner: Dom (0100 Investigator(s): EST-T. Miller, K. MUrparen Section, Township, Range: NA Local relief (concave, convex, none): 410+ Landform (hillslope, terrace, etc.): FLOX Subregion (LRR or MLRA): LRR Soil Map Unit Name: Torhunta 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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

215 (0.1)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+X 308+	% Cover	Species?	<u>Status</u>	= :
1. Pinus taeda	40	<u></u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	- 			
				Total Number of Dominant
3.				Species Across All Strata: (B)
4	- 			Percent of Dominant Species
5	. _			That Are OBL, FACW, or FAC: 86% (A/B)
6				(12)
				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8	· / .			1
	<u>, TO</u>	= Total Co	ver	OBL species x 1 =
50% of total cover: 2) _{20% o}	f total cover	r: &	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 308+ X 306+				FAC species x 3 =
1. Pinais taeda	30	\/	FAC	FACU species x 4 =
		·		UPL species x 5 =
2. ACEV rubrum	<u> 50</u>	. <u> </u>	FAC	
3. Taxodium distichum	15	N/	OBL	Column Totals: (A) (B)
4. Liquidonnoav Styrocifica		$\overline{}$	FAC	
	- - ~~	~ ~ ~ 	OBL	Prevalence Index = B/A =
5. SALLY DIGKA		17	OPL	Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				Deminance Trust to 500/
		-		2 - Dominance Test is >50%
8	- 75			☐ 3 - Prevalence Index is ≤3.0 ¹
1.	<u> 7</u> /	_ = Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	<u>``</u> ≥ 20% c	of total cove	r: 19.4	
Herb Stratum (Plot size: 30 + X 30+)				
1. Traxicolendon radicos	5	'	TEAC	¹Indicators of hydric soil and wetland hydrology must
2			.	Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				(Colgrit.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
,				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12.				- 1 · · · · · · · · · · · · · · · · · ·
12.				-
		_ = Total C		
50% of total cover: 2	20%	of total cov	rer:\	. [
Woody Vine Stratum (Plot size: 306+ X 306+				
1 Parthenocissus quinquesonie	₃ 5	\vee	FACU	λ [
2 Ampelopsis armien		- 	- ====	-
2. MINELOISIS ALENEON		_ _	<u> </u>	-
3				_
4				
				-
5				- Hydrophytic
		= Total (Cover , ,	Vegetation
50% of total cover: 2	.5 20%	of total co	ver: 1.4	Present? Yes No
Remarks: (If observed, list morphological adaptations t	below).			
			•	
				•
İ				

epth	ription: (Describe Matrix	to the dep		ox Features		42001100 01 111	410410101)
nches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
) - B	104R6/1	80	104R 7/6	20		CL.	
5-20	104R6/1	70	104R7/6	30		LS	
		·	l		·	· · · · · · · · · · · · · · · · · · ·	
							<u> </u>
				 			
vpe: C=Co	ncentration. D=Den	letion. RM:	Reduced Matrix N	S=Masked Sand G	ains	² l ocation: Pl =	Pore Lining, M=Matrix.
	ndicators: (Applic				unio.	Indicators for F	Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue E	selow Surface (S8) (LRR S. T. U		(A9) (LRR O)
Histic Ep	ipedon (A2)			Surface (S9) (LRR S			(A10) (LRR S)
Black Hi	stic (A3)		Loamy Mud	ky Mineral (F1) (LR	R 0)		erlic (F18) (outside MLRA 150A,E
	n Sulfide (A4)			/ed Matrix (F2)			loodplain Soils (F19) (LRR P, S, T
	Layers (A5)		Depleted M	• •			Bright Loamy Soils (F20)
	Bodies (A6) (LRR P			Surface (F6)		(MLRA 1	
	icky Mineral (A7) (Ll esence (A8) (LRR (ark Surface (F7) ressions (F8)			Material (TF2)
	ick (A9) (LRR P, T)	'1	Marl (F10)	, ,			w Dark Surface (TF12) ain in Remarks)
	Below Dark Surfac	e (A11)		chric (F11) (MLRA	151)	Ottler (Expr	an in Remarks)
	ark Surface (A12)	,		nese Masses (F12)	•	T) ³ Indicators	s of hydrophytic vegetation and
	rairie Redox (A16) (MLRA 150.		face (F13) (LRR P,		•	hydrology must be present,
	lucky Mineral (S1) (LRR O, S)		ic (F17) (MLRA 151)			listurbed or problematic.
_	Sleyed Matrix (S4)			ertic (F18) (MLRA 1			
_	Redox (S5)			loodplain Soils (F19			
	Matrix (S6)	0 T III	Anomalous	Bright Loamy Soils	(F20) (MLR	A 149A, 153C, 153	BD)
	rface (S7) (LRR P, : Layer (if observed)						
	rayer (II observed)	١.					_
Type:							
·-··	ches):		<u> </u>			Hydric Soil Pre	sent? Yes No
emarks:							
			•				
						-	
*							
						-	



Wetland data point wsuo011f_w facing northeast



Wetland data point wsuo011f_w facing south

Project/Site: ACP	City/County: Su!	Ffolk	Sampling Date: 7/2///5
Applicant/Owner: Down now	, ,	State: V A	Sampling Point: WSWO Olle-W
Investigator(s): 1. Hubom C. McFachen	Section, Township.	Range: none	
			Slone (%): 42
Subregion (LRR or MLRA): T Lat: 36.	77045	1000-76.465	Slope (%): <u>43</u> Datum: <u>W65 84</u>
Soil Map Unit Name: Techunta loam			cation: PEM
Are climatic / hydrologic conditions on the site typical for this time of ye	/	(If no, explain in I	
Are Vegetation, Soil, or Hydrology significantly			present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr			
		needed, explain any answ	•
SUMMARY OF FINDINGS – Attach site map showing		t locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Samp	led Area	
Hydric Soil Present? Yes No	within a Wet	_	No
Wetland Hydrology Present? Yes No	<u>- 1</u>	···	
Electric line easement			
•			
		· · · · · · · · · · · · · · · · · · ·	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface So	il Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	•		egetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B		<u> </u>	Patterns (B10)
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosp			Lines (B16)
Sediment Deposits (B2) Sediment Deposits (B2) Presence of Redi	oheres along Living Re		n Water Table (C2) urrows (C8)
	uction in Tilled Soils (—	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	ic Position (D2)
Iron Deposits (B5)	Remarks)	☐ Shallow Ar	quitard (D3)
Inundation Visible on Aerial Imagery (B7)		==	ral Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnun	1 moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inches)	\. A1A		
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche Present)	ì		
Saturation Present? Yes V No Depth (inch		Wetland Hydrology Pres	sent? Yes V No
(includes capillary fringe)			Senti les V NO
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspec	tions), if available:	
Remarks:			
			ļ
1			
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			,
ł			

-0.50	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 Pt, x 30 Pt)	% Cover Species? Status	
, \\a A		Number of Dominant Species
_	1	That Are OBL, FACW, or FAC: (A)
2	- <u> </u>	Total Number of Dominant
3		Species Across All Strata: (B)
4,		oposios risi oco i si culta.
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: _// O (A/B)
6		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8		
	= Total Cover	OBL species x1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30Ft. x 30ft.)		FAC species x 3 =
		FACU species x 4 =
1. none		
2		UPL species x 5 =
		Column Totals: (A) (B)
3		
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 · · · · · · · · · · · · · · · ·
		Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.0¹
	= Total Cover	
		Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30ft. x 30ft.)		¹ Indicators of hydric soil and wetland hydrology must
1. Scirpus ruphinus	35 Y 08L	be present, unless disturbed or problematic.
2. Innous offusus	15 Y 08L	
Charles AFTUSUS	5 N FACW	Definitions of Four Vegetation Strata:
3. Rhexia Alifanus		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eltocharis Sp	10 N >FACW	more in diameter at breast height (DBH), regardless of
1 —		height.
		1.5.g.iii
6		Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		i
8		Herb – All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		186
11		Woody vine – All woody vines greater than 3.28 ft in height.
		rieignt.
12		.
	65 = Total Cover	
50% of total cover: 32.	≤ 20% of total cover; <u>\3</u>	
Woody Vine Stratum (Plot size: 30Ft. x30 Ph)		
•		
1. None		. [
2		
		• [
3		-
4		.]
5		
	_	- Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes V No
Remarks: (If observed, list morphological adaptations b	elow).	
(**************************************	,-	
1		
·		
•		
,		

epth	Matrix		Red	ox Features			~ .			
nches)	Color (moist)	<u> %</u>	Color (moist)		Type ¹	_Loc²	Texture Remarks	<u> </u>		
-90	10484/1	<u>8D</u>	104R 5/6	<u> </u>		11	Sandy Bran			
										
-										

	. 	<u></u>								
ne: C=C	Concentration D=D	opiotion Di	=Reduced Matrix, N		Cand Ca		21			
dric Soil	Indicators: (Ann	licable to al	I LRRs, unless other	enwise note	ry /	iiris.	² Location: PL=Pore Lining, M=Ma Indicators for Problematic Hydri			
Histoso		nouble to al	Polyvalue E		-	DD C T 1		C 5011S ;		
	pipedon (A2)		Thin Dark S							
	listic (A3)		Loamy Muc				2 cm Muck (A10) (LRR S)			
	en Sulfide (A4)		Loamy Gley			0)	Reduced Vertic (F18) (outside Piedmont Floodplain Soils (F1			
	d Layers (A5)		Depleted M				Anomalous Bright Loamy Soils			
	Bodies (A6) (LRF	P. T. U)		Surface (F	6)		(MLRA 153B)	s (1 20)		
	ucky Mineral (A7)			ark Surface	•		Red Parent Material (TF2)			
	resence (A8) (LRF			ressions (F	• •		Very Shallow Dark Surface (T	F12)		
	uck (A9) (LRR P,		Marl (F10)	-	•		Other (Explain in Remarks)	,,		
Deplete	ed Below Dark Surf	ace (A11)	Depleted O	chric (F11)	(MLRA 1	51)				
	ark Surface (A12)			nese Mass			T) Indicators of hydrophytic ve	getation and		
	Prairie Redox (A16)			face (F13) (LRR P, T	, U)	wetland hydrology must be			
	Mucky Mineral (S1		_	c (F17) (ML			unless disturbed or probler	natic.		
	Gleyed Matrix (S4)			ertic (F18) (
	Redox (S5)		_	loodplain S		•	•			
	d Matrix (S6)		Anomalous	Bright Loai	ny Soils (F20) (MLF	RA 149A, 153C, 153D)			
	urface (S7) (LRR F									
	Layer (if observe	a):								
Type:							✓			
	nches):	• •					Hydric Soil Present? Yes	No		
marks:								· -		
			•							
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Wetland data point wsuo011e_w facing northwest



Wetland data point wsuo011e_w facing southeast

Project/Site: ACP	City/County: SUFFOIK Sampling Date: 7/21/15 State: VA Sampling Point: WSuo 011-4
Applicant/Owner: DOM (01d)	State: VA Complian Boint WSUO 011-4
Investigator(s) FSI-T, Miller, K, Marphyes	Section, Township, Range: NA Local relief (concave, convex, none): F(A+ Slope (%): 2-4 77095 Long: 77.46795 Datum: Wis 9/4
Landform (hillstone terrace etc.): FIA+	Local relief (concave convex none): FIA+ Slone (%): 2-4
Subregion (I RR or MI RA): LBRT 12t 36.	77095 Long: -77.46795 Detumbles 24
Soil Map Unit Name: TOY hunta (oom	
	NWI classification:
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	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	- Hamila Hedding
Remarks:	
· ·	
,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	y) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Harl Deposits (B)	
Saturation (A3) Hydrogen Sulfide	
	pheres along Living Roots (C3)
Sediment Deposits (B2) Presence of Red Drift Deposits (B3) Recent Iron Redu	duced Iron (C4) Crayfish Burrows (C8) duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	A/A
Surface Water Present? Yes No Depth (inch Water Table Present? Yes No Depth (inch	nes): N + (> 20 0)
	hes): SaO Wetland Hydrology Present? Yes No
(includes capillary fringe)	vectalid Hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:
Remarks:	
	•
	•

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+X 30F+	% Cover Species? Status	_
1100 Otto Care Care L	70 Cover Opecies: Status	Number of Dominant Species
1. None present		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:
5		That Are OBL, FACW, or FAC: (A/B)
6	<u> </u>	
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		
	O = Total Cover	OBL species
		FACW species x 2 = 20
50% of total cover:	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 328+ X30 F)+		
LINARO DOSEAT		FACU species
· · · · · · · · · · · · · · · · · · ·		
2		Of Lispedies XU =
		Column Totals: <u>59</u> (A) <u>197</u> (B)
3		
4		Prevalence Index = B/A = 3.34
5		
		Hydrophytic Vegetation Indicators:
6	· —— ——— ——	1 - Rapid Test for Hydrophytic Vegetation
7		1
l .		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
1	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	2004 of total cover	roblemade riydrophlytic vegetation (Explain)
2 36 1 1/2 0/4 (20 % 6/ total cover	
Hero Stratum (Plot size: 308+X308+)	0 1 -1 -	¹ Indicators of hydric soil and wetland hydrology must
1. Taxi cudendrum radicons	2 N FAC	be present, unless disturbed or problematic.
2. A Modinario gigostea	· 	
	- 	Definitions of Four Vegetation Strata:
3. Trifolium Pratense	20 Y F94(V	
4. Trisolium repens	20 1/ FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or 1
		more in diameter at breast height (DBH), regardless of
5. Sabatia angularis	5 N FACW	height.
6. Panicam hemitomon	5 N OBL	
	- 	Sapling/Shrub – Woody plants, excluding vines, less
7. Microstegium vimenium	1 2 N FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		
		Herb – All herbaceous (non-woody) plants, regardless
9	- — — — — — — — — — — — — — — — — — — —	of size, and woody plants less than 3.28 ft tall.
10		
		Woody vine - All woody vines greater than 3.28 ft in
11	- 	height.
12		
	59 = Total Cover	
20	= Total Cover	
50% of total cover: ਕੀ।	5 20% of total cover: 11, 8	
Woody Vine Stratum (Plot size: 305 (X305+)		
THOUSE OF THE OF		
1. NON!		. [
2		
		·
3		.
4		
0		- Hydrophytic
	🗸 = Total Cover	Vegetation
FOOL of total account		Present? Yes No
50% of total cover;	20% of total cover:	-
Remarks: (if observed, list morphological adaptations be	elow).	
	•	
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	cription: (Describe	to the depth				or confirm	the absence of in	dicators.)
Depth _(inches)	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
	109R5/1		UMR 5/6	30		100	5 C	Remarks
7	10-111-7	<u> </u>	00/K 9/16					
· - · - · - · - · · · · · · · · · · · ·				- —				
1Type: C-C	oncentration, D=Dep	Jotion DM-D	adupad Matrix M	California	Cond Cr		21	Dan 15-5
Hydric Soil	Indicators: (Applic	able to all Li	Re unless other	o-ividaneu	od)	airis.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
☐ Histosol		ubic to un 2,	`			BD C T !	 	•
_	pipedon (A2)		Polyvalue B					(A9) (LRR O)
	istic (A3)		Loamy Mucl					(A10) (LRR S)
	en Sulfide (A4)					(0)		ertic (F18) (outside MLRA 150A,B)
	d Layers (A5)		Depleted Ma		1.21			loodplain Soils (F19) (LRR P, S, T)
	u Layers (A5) : Bodies (A6) (LRR P	τ ιν	Redox Dark		-6\			Bright Loamy Soils (F20)
	ucky Mineral (A7) (Li		Depleted Da	-	-		(MLRA 1	ызы) Material (TF2)
. =	resence (A8) (LRR L		Redox Depr					. матепат (т F2) w Dark Surface (TF12)
	uck (A9) (LRR P, T)	")	Marl (F10) (υ)			lain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Or		(M) RA 1	51)	LL Other (Expi	ani in remarks)
	ark Surface (A12)	,c (/11/)	Iron-Mangar				T) ³ Indicators	s of hydrophytic vegetation and
	Prairie Redox (A16) (I	MI RA 150A)					-	hydrology must be present,
	Mucky Mineral (S1) (Delta Ochri					disturbed or problematic.
	Gleyed Matrix (S4)	_, _,	Reduced Ve					astarbed of problematic.
, = '	Redox (S5)		Piedmont F					
	d Matrix (S6)			·-			RA 149A, 153C, 153	RD)
	urface (S7) (LRR P,	s. T. U)			,	(, 40) (2.		,
	Layer (if observed)						Ţ	
Type:								
	nches):						Hydric Soil Pre	sent? Yes No No
	iones)						Tryunc 3011 Fre	sentr res No
Remarks:								
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Upland data point wsuo011_u facing north-northeast



Upland data point wsuo011_u facing south southwest