

Wetland data point wsuo024f_w facing north.



Wetland data point wsuo024f_w facing east.

	LAND DETERMINA	ATION DATA FOR	RM – Atlantic	and Guir Co		
Project/Site:	P	City	County:	HOIN	o_ San	npling Date 0 1/13/16
Applicant/Owner:	MOIMIN			State	VA San	npling Point: WSUO 024-L
Investigator(s): L-Rop-	or c. Tarof	6) Sec	ion Township F			
Landform (hillslope, terrace,	+ Hillcland	Les	d saliaf (annanya	convex pone):	none	Slope (%) N/A
Landform (hillslope, terrace,	etc): Tritatope	Lat: 30.60	al relief (concave	, convex, none).	2027	Datum: WGS8
Subregion (LRR or MLRA): _	CRRI	Lat: 50.0	71 10	Long: 1001	2021	
Soil Map Unit Name: EUV						
Are climatic / hydrologic cond	ditions on the site typical	for this time of year?	Yes No	(If no, e	explain in Remai	rks.)
Are Vegetation, Soil	, or Hydrology	significantly distu	irbed? Ar	e "Normal Circur	nstances" prese	nt? Yes Y No
Are Vegetation, Soil_	, or Hydrology	naturally problem	natic? (If	needed, explain	any answers in	Remarks.)
SUMMARY OF FINDIN	IGS - Attach site	map showing sa	mpling point	locations, t	ransects, im	portant features, etc.
Secretary of the second		trooped (gapters il att				
Hydrophytic Vegetation Pre		No	Is the Sample	ed Area		V
Hydric Soil Present?		_ No	within a Wet	land?	Yes	No X
Wetland Hydrology Presen	t? Yes	NoX				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indica	ators:			Secon	dary Indicators	(minimum of two required)
Primary Indicators (minimu		eck all that apply)		St. To B. A. China Co. Phys. Lett. B 40 representation	urface Soil Crac	6.65 (Paris Bargit 40.45 Ann (Print) () () () () () () () () () (
Surface Water (A1)		quatic Fauna (B13)				ed Concave Surface (B8)
High Water Table (A2)		larl Deposits (B15) (LF	RR U)		rainage Pattern	
Saturation (A3)	A STATE OF THE STA	lydrogen Sulfide Odor			loss Trim Lines	
Water Marks (B1)		xidized Rhizospheres			ry-Season Wate	4. 4. Martin 1944 (1944)
Sediment Deposits (B2		resence of Reduced I			rayfish Burrows	
Drift Deposits (B3)		ecent Iron Reduction				on Aerial Imagery (C9)
Algal Mat or Crust (B4)		hin Muck Surface (C7)		The second secon	eomorphic Posi	
Iron Deposits (B5)		ther (Explain in Rema			hallow Aquitard	
Iron Deposits (B5)		mer (Explain in Nema	iko,		AC-Neutral Tes	
Water-Stained Leaves				THE COURSE OF BUILDING STREET,		(D8) (LRR T, U)
Field Observations:	(Pa)					
Surface Water Present?	Van Na X	Depth (inches):	NA			
	Yes No X		120			
Water Table Present?	Committee of the commit			Wetland Hydrol	ogy Present?	Yes No
Saturation Present? (includes capillary fringe)		Depth (inches):			Magazine Control of the Control of t	
Describe Recorded Data (s	stream gauge, monitoring	well, aerial photos, p	revious inspectio	ons), if available:		
Remarks:						
		•				

Sampling Point:	WSUO	Ozr	-	U
-----------------	------	-----	---	---

20120ft	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 X 30 ft)		Species		Number of Dominant Species 5
1. tagus granditolia	10		FACU	That Are OBL, FACW, or FAC: (A)
2. Ilex opaca	10	7	FAC	Total Number of Dominant
3. Liriodendron tulipifera	10	4	FACU	Total Number of Dominant Species Across All Strata: (B)
4.				
				Percent of Dominant Species That Are OBL FACW or FAC: 63% (A/B)
5				That Are OBL, FACW, or FAC:
6.				Prevalence Index worksheet:
7.	-			Total % Cover of: Multiply by:
8.	70			OBL species x1 =
	30	= Total Co	ver .	
50% of total cover:\S	20% of	total cove	r: (Q	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30ft)			A CONTRACTOR	FAC species x 3 =
1. Acer rubrum	5	Y	FAC	FACU species x 4 =
The Tier	5	Y	FAC	UPL species x 5 =
2. Ilex ppaca			71.0	Column Totals: (A) (B)
3.				
4.		CALL MARKET		Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
в.				3 - Prevalence Index is ≤3.0¹
	10	= Total Co	var	
50% of total cover:	2 2004 -4	- Idai co	2	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 01	total cove	-	
Herb Stratum (Plot size: 30 X 30 FF)	-	. [TAGE	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	5	-	FACW	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.	Property and			more in diameter at breast height (DBH), regardless of
[25] [25] [25] [25] [25] [25] [25] [25]			Tank M	height.
5				
6.			4 - 4 - 4 - 4 - 5 - 5 - 5 - 5 - 5 - 5 -	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.				than 3 iii. DBH and greater than 3.20 it (1 m) tail.
B		THE PLANT		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.
100 N. Comparison of the season of the seaso	SAME IN A SECOND	EXT S VINES		
12		7.110		
0 (of Wart and London Control	= Total Co		
50% of total cover: 2.9	20% of	total cove	r	
Woody Vine Stratum (Plot size: 30 × 30 +)		- 1	-44	
1. Smilax rotundifolia	10	1	FAC	
2 Lonicera jasonica	10	Y	FAEU	
3				
	TO COMPLETE	ti verilitike		
	2018330434		ART DOWN	
5.	00			Hydrophytic
1.7		= Total Co	March College A	Vegetation Present? Yes No No
50% of total cover:	20% of	total cove	r:	Present res 747 ns
Remarks: (If observed, list morphological adaptations belo	ow).			
A STATE OF THE STA				

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
(inclies) Coda (inclies)	Fine SL
The state of the s	Fine Sand
6-20 10 /R 6/6 100	10.0
	The second secon
	The state of the s
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, U Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR S, T, U)	I) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S)
Histic Epipedon (A2) — Hin Dark Surface (S9) (LRR S, T, U) — 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) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TF2)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) 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)	T) ³ Indicators of hydrophytic vegetation and
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, 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 Gleved Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	(9A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Type:	\1
Depth (inches):	Hydric Soll Present? Yes NoX
Remarks:	



Upland data point wsuo024_u facing west.



Upland data point wsuo024_u facing south.

Project/Site: ACP	City/County: Suffork Sampling Date: 1/6/15
Applicant/Owner: Dominion	State: V A Sampling Point: W5 wb DZZ£.
Investigator(s): L.Roper, R. Turnbull s	
Investigator(s): CTROPET CTATORNOOT	Section, Township, Range: VIBY1C
Landform (hillslope, terrace, etc.): +14+	ocal relief (concave, convex, none): NONC Slope (%): 0-2
	69543 Long: -76.73666 Datum: WG584
Soil Map Unit Name: Rains fine sandy loan	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of yea	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly of	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prot	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? YesX_ No	Is the Sampled Area
Hydric Soil Present? Yes X No No No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes No	William a Voltaila.
Remarks:	
NCWAM! Pine Flat	
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 Oc	dor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	ed Iron (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Reducti	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Re	emarks) 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:	- 110
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Surface Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	
	20 20 20 20 20 20 20 20 20 20 20 20 20 2

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

2.0. 2-1.	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30fl x 30fl)		Species?		Number of Dominant Species
1. Pinus taeda	20		FAC	That Are OBL, FACW, or FAC:(A)
2. Ilex opala	10		FAL	Total Number of Dominant
3. Quercus falcata	15	<u>y</u>	FACU	Species Across All Strata: (B)
4				Descrit of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 801 (A/B)
6.				
7.				Prevalence Index worksheet:
8.	# 16 W	Jones		Total % Cover of: Multiply by:
	45	= Total Co	ver .	OBL species x 1 =
50% of total cover: 22				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f+ x 30f+)	2070 01	total cover		FAC species x 3 =
				FACU species x 4 =
1. none				UPL species x 5 =
2				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 Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30ff x 30ff)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	40	Y	FACW	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.				more in diameter at breast height (DBH), regardless of height.
5				noight.
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.			<u> </u>	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.				
	40	= Total Co	ver	
50% of total cover: 20		total cover	Ph.	
Woody Vine Stratum (Plot size: 30ff x 30ff)		10101 00101	-	
1. Smilax rotundifolia	15	V	FAC	5 11 11 11 11
		-	17.0	2 21 21 21
2	$\overline{}$			
3				N 30
4				No. of the second secon
5				Hydrophytic
		= Total Co	ver	Vegetation Present? Yes X No
50% of total cover: 7.5	20% of	total cover	:_3	Present? Yes No
Remarks: (If observed, list morphological adaptations below	w).	20 × 1 = 1		William To the Control of the Contro

Depth	Matrix		Redo	x Feature			the absence			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-4	101K2/1	100					5L	higho	rganic	content
4-8	2.544/2	100					SL	0	U	
8-20	2.544/2	60	104R 6/4	30	C	M	SL			
	0.10		7.5 YR4/6	5	-	M		DITHUM II	XIIII AND	
	Magazina de la lactio		2.5 44/1	5	0	M		-		
		-	2.0 11		1					
		-		-				-		
1Tune: C-C	oncentration, D=Dep	lotion DM	- Reduced Matrix M	C-Maskas	Cand Cr	ine	21 postion:	PI =Poro I	ining, M=Matri	
	Indicators: (Applic					11115.			matic Hydric	
☐ Histosol			☐ Polyvalue Be			RR S. T. U		Muck (A9) (I	Philipping Street, Total Science	
	pipedon (A2)		Thin Dark St					Muck (A10)		
	stic (A3)		Loamy Muck	THE CONTRACTOR	A CONTRACTOR OF THE PARTY OF TH	The state of the s	Reduc	ed Vertic (F	18) (outside l	MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)					(LRR P, S, T)
	d Layers (A5)		Depleted Ma						Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark		EASTERN CO.			RA 153B)	-1 (TE2)	
The same of the sa	icky Mineral (A7) (LF							arent Mater	iai (1F2) k Surface (TF1	2)
	esence (A8) (LRR U uck (A9) (LRR P, T)	,	Redox Depre		3)			(Explain in I		2)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 15	i1)	Outer	(Explain iii i	(ciriano)	
The state of the s	ark Surface (A12)	. (,	☐ Iron-Mangan				r) ³ Indio	cators of hyd	drophytic vege	ation and
	rairie Redox (A16) (I	MLRA 150							ogy must be p	
Sandy N	Mucky Mineral (S1) (I	RR O, S)	☐ Delta Ochric	(F17) (ML	RA 151)		unl	ess disturbe	ed or problema	tic.
	Sleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont Flo							
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F	20) (MLRA	149A, 153C	, 153D)		
	rface (S7) (LRR P, S Layer (if observed):				01.311	1 2		100	Down or a second	
	Layer (II observed).									
Type:		100,140,00								
Donth (in	oboo):						Hudric Soil	Drocont2	voe X	No
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soli	Present?	Yes X	No
Depth (in	ches):						Hydric Soli	Present?	Yes X	No
	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soil	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No
	ches):						Hydric Soll	Present?	Yes X	No



Wetland data point wsuo022f_w facing north.



Wetland data point wsuo022f_w facing west.

Project/Site: ACP	City/County: Suffolk Sampling Date: 1616
Applicant/Owner: Pominion	State: V A Sampling Point: W5u0022_
Investigator(s): L. Roper, R. Turnbull	Section, Township, Range: NDNC
Landform (hillslope, terrace, etc.): + at	Local relief (concave, convex, none): Slope (%): 0-2
Subregion (LRR or MLRA): LRRT Lat	36.69538 Long: -76.73662 Datum: W658
Soil Map Unit Name: Rains sandy lo	TO STATE OF THE PARTY OF THE PA
장이 가지 않아 있다면 하는 이번 구매하는 아이지 않는데 아름답을 하는데 하는데 이 이 이 아이를 하는데 하는데 이 사람이 없다.	me of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sign	
Are Vegetation, Soil, or Hydrology nat	urally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	nowing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesX No_	
Hydric Soil Present? Yes No	x is the Sampled Area
Wetland Hydrology Present? Yes X 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	t apply) Surface Soil Cracks (B6)
Surface Water (A1)	una (B13) Sparsely Vegetated Concave Surface (B8)
[]	sits (B15) (LRR U)
[1]	Sulfide Odor (C1)
[]	Rhizospheres along Living Roots (C3)
[1]	of Reduced Iron (C4)
[1]	Surface (C7) Surface (C7) Surface (C7) Saturation Visible on Aerian imagery (C9)
[1]	olain 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	(inches): NH
Water Table Present? Yes X No Depth	(inches):
Saturation Present? Yes X No Depth (includes capillary fringe)	(inches): 500 Face Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspections), if available:
Remarks:	
2 10	

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

12:5 12.5	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff)		Species?		Number of Dominant Species
1. Pinus taeda	20	7	FAC	That Are OBL, FACW, or FAC:(A)
2. Ilex opaca	10	<u> </u>	FAC	Total Number of Dominant
3. Liquidambar styraciflua	10		FAC	Species Across All Strata: (B)
4				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				marker obe, thou, or the
7.				Prevalence Index worksheet:
8.		I BILLY		Total % Cover of: Multiply by:
	UD	= Total Cov	/er	OBL species x 1 =
50% of total cover: ZO		total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 Ft x 30 Ft)	20 % 01	total cover		FAC species x 3 =
1. Fagus grandifolia	C.	V	FACU	FACU species x 4 =
2. Vaccinium Corymbasum	-6	- V	FACW	UPL species x 5 =
[18] DESCRIPTION OF THE PROPERTY OF A STATE OF THE PROPERTY OF			PHUN	Column Totals: (A) (B)
3	Carl Control of the Land	Total Annual Property (N		(-)
4.			10000	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
	10	= Total Cov	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 5	20% of	total cover	4079	Troblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30ft x30ft)	2070 01	total cover		
1 Acus discours a ciacos tea	40	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinaria gigantea				
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
5				height.
6.		A 100 A		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.			The Dept.	Woody vine – All woody vines greater than 3.28 ft in height.
				neight.
12	40	T-1-10-		
70		= Total Cov	10	
50% of total cover: 20	20% of	total cover	-0	
Woody Vine Stratum (Plot size: 30f+x30f+)		V	-n/	
1. Smilax rotundifolia	10		FAC	
2.				
3.	-			
4				
5.				Hydrophytic
	10	= Total Cov	ver	Vegetation
50% of total cover:		total cover	7	Present? Yes No No
		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			
				And the second of the second
				W 11 11 2.1 101 1110

Depth	Matrix			x Features			
(inches)	Color (moist)	%	Color (moist)		Loc2	Texture	Remarks
0-5	2.544/2	100		- 15 Sept. 16		5L	
5-20	2.546/4	100				54	
			Lillian Lad				
2 279						- Wilson - Assessment	
- 10-							
	-						
vne: C=C	oncentration, D=Depl	etion RM=Re	duced Matrix, M	S=Masked Sand (Grains.	² Location: PL=Pore Li	ning, M=Matrix.
	Indicators: (Applica					Indicators for Problem	
Histosol				elow Surface (S8)			
	pipedon (A2)			ırface (S9) (LRR		2 cm Muck (A10) (
	stic (A3)			y Mineral (F1) (LI	RR O)		18) (outside MLRA 150A,I
	n Sulfide (A4)			ed Matrix (F2)			in Soils (F19) (LRR P, S, T
	Layers (A5)		Depleted Ma			Anomalous Bright	Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark			(MLRA 153B)	-1 (TEO)
	icky Mineral (A7) (LR			rk Surface (F7)		Red Parent Materi	
	esence (A8) (LRR U)		Redox Depre				N. 1878 B. 1888
	ick (A9) (LRR P, T)	(0.44)	Marl (F10) (L		454)	U Other (Explain in F	temarks)
	Below Dark Surface	(A11)		hric (F11) (MLRA		T) 3Indicators of hyd	rophytic vegetation and
	ark Surface (A12)	U DA 450A)		ese Masses (F12			gy must be present,
	rairie Redox (A16) (M lucky Mineral (S1) (L	A PARTY OF THE PAR		ice (F13) (LRR P, (F17) (MLRA 151			d or problematic.
	Bleyed Matrix (S4)	KK U, S)		rtic (F18) (MLRA		uness disturbe	d of problematic.
	ledox (S5)	5 3 Co. 18		odplain Soils (F1	나 되었는 기계에서 내 그가 시간하면 했다고 하다.	24)	
	Matrix (S6)			얼마 열리 하시가 되었는데, 밥 되었다고 밥 나라다는데?		A 149A, 153C, 153D)	
	rface (S7) (LRR P, S,	T II)	Anomalous L	origin Loarny Cons	(1 20) (111214)	1437, 1330, 1335,	
	_ayer (if observed):	, 1, 0,					
	Layer (II observed).						
Type:			-				Yes No _X
Depth (in	ches):		<u> </u>			Hydric Soil Present?	Yes No
emarks:							



Upland data point wsuo022_u facing south.



Upland data point wsuo0022_u facing east.

Project/Site: ACP Applicant/Owner: Dominion Investigator(s): Likoper, R. Turnbull Section Landform (hillslope, terrace, etc.): flood plain Local Subregion (LRR or MLRA): Ler Lat: 36.70. Soil Map Unit Name: Levy 5 if clay loam Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation, Soil, or Hydrology significantly disturd Are Vegetation, Soil, or Hydrology naturally problems	State: V H Sampling Point: W540023F Don, Township, Range: ND NE relief (concave, convex, none): CD ncove Slope (%): D-3 1/1 3 2 5 Long: 7 6 7 3 2 4 5 Datum: W63 84 NVI classification: PFO es X No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes X No bed? No Sampling Point: W540023F Done Slope (%): D-3 1/1 Datum: W63 84 NO Section PFO
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No No	Is the Sampled Area within a Wetland? YesX No
Remarks: NCWAM! Riverine Swamp Forest	
Beaver activity	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	C1)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, presented to the present of the present o	Wetland Hydrology Present? Yes X No
Portions of wetland inundat	red

2-11 2011	Absolute			Dominance Test worksheet:	Transfer V	134
Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus taeda	10	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	7	(A)
2. Magnolia virginiana		V	FACW	market obe, 1 hove, of 1 ho.		_ ('')
3. Ilex opala		Ý	FAC	Total Number of Dominant Species Across All Strata:	7	(B)
4. ALER rubrum	10	У	FAC			_ (ט)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
6				Prevalence Index worksheet:		
7.				Total % Cover of:	Multiply by:	
8	LID			OBL species x 1		7 77 7
70		= Total Co		FACW species x 2		
50% of total cover; <u>70</u>	20% of	total cover		FAC species x 3		
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	c	V	EN/	FACU species x 4		
1. Aur Nbrum				UPL species x 5		
2				Column Totals: (A)		
3						(_/
4.				Prevalence Index = B/A = _		_
5.				Hydrophytic Vegetation Indicato		SALLA
6.				1 - Rapid Test for Hydrophytic	Vegetation	
7				2 - Dominance Test is >50%		
8	-	-		☐ 3 - Prevalence Index is ≤3.01		
2.5		= Total Cov		Problematic Hydrophytic Vege	tation1 (Expl	ain)
50% of total cover: 2.5	20% of	total cover				
Herb Stratum (Plot size: 30f4 x 30ff)	1 4	W		¹ Indicators of hydric soil and wetlan	nd hydrology	must
1. Arundinaria gigantea	10		FHUN	be present, unless disturbed or pro		Ana
2				Definitions of Four Vegetation S	trata:	
3				Tree - Woody plants, excluding vir	nes, 3 in. (7.6	cm) or
4 5				more in diameter at breast height (height.	DBH), regard	dless of
6 7				Sapling/Shrub – Woody plants, exthan 3 in. DBH and greater than 3.	cluding vine 28 ft (1 m) ta	s, less
B				Harb All barbassaus (non woods	A planta roa	ardloon
9.				Herb – All herbaceous (non-wood) of size, and woody plants less than	1) plants, reg 1 3.28 ft tall.	aruless
10.						0.6.
11.				Woody vine – All woody vines gre height.	ater than 3.2	28 π in
12.			e -0000-	1135.11		
	10	= Total Cov	er		12.	
50% of total cover:		total cover	-49			
Woody Vine Stratum (Plot size: 30ft x 30ft)						
1. Smilax rotundifolia	10	Y	FAL			
2						
3.						
				2 11 11		
		OVERS IN V				
4				Hydrophytic		
5	10	= Total Cov	or	Vegetation		
	The second second	= Total Cover		Vegetation Present? Yes	No	

Depth	Matrix		needed to docu Red	x Features						
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture		Remarks	
0-6	2.5 4 2.5/	100					mocky	loan	- 72 45	
6-20	2.543/1	100					_ SL'			
ype: C=Co ydric Soil I Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M	oncentration, D=Deplications: (Applications)	etion, RM=R able to all LF T, U) R P, T, U)	RRs, unless other Polyvalue B Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (Depleted Oc	erwise note elow Surface (S9) ky Mineral (ed Matrix (F3) Surface (F erk Surface essions (F8 LRR U) chric (F11) enese Masse ace (F13) (c (F17) (ML	d.) le (S8) (L (LRR S, F1) (LRR F2) le (F7) le (F7) le (F7) le (F12) (I le (F1	RR S, T, U T, U) O) 51) LRR O, P,	2Location: Indicators 1) 1 cm 2 cm Redu Piedn Anom (ML Red F Very S Other	for Problem Muck (A9) (L) Muck (A10) (ced Vertic (Footh Floodplate) (A10) (A10	(LRR S) (18) (outside lain Soils (F19) Loamy Soils (ial (TF2)	Soils ³ : MLRA 150A,I (LRR P, S, T) (F20) Itation and resent,
Sandy G		KK 0, 5)		rtic (F18) (MLRA 15			iess distuibe	ed of problems	illo.
							- 1			
Dark Sui	Matrix (S6) rface (S7) (LRR P, S, Layer (if observed):		Anomalous	Bright Loan	ny Soils (f	F20) (MLR	A 149A, 1530	C, 153D)		
Dark Surestrictive L			□ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes X	. No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			Bright Loan	ny Soils (f	F20) (MLR			Yes X	. No
Dark Surstrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes X	No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes X	No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes X	No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes_X	No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes_X	No
Dark Surestrictive L Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):		☐ Anomalous	Bright Loan	ny Soils (f	F20) (MLR			Yes X	No



Wetland data point wsuo023f_w facing southeast.



Wetland data point wsuo023f_w facing northeast.

Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Nonsemond Are climatic / hydrologic conditions on the site ty Are Vegetation, Soil, or Hydrolog Are Vegetation, Soil, or Hydrolog	Section, Township OPE Local relief (conc Lat: 36.70330 Locany fine sand pical for this time of year? Yes X ay significantly disturbed? ay naturally problematic?	Long:NWI classification:NWI classification:
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sar	mpled Area Wetland? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	t; check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Crayfish Burrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Thin Muck Surface (C7) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No	Depth (inches): NA Depth (inches): >20 Depth (inches): >20 toring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes No _X
Remarks:		

0.01.00.01	Absolute	Dominan	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x30ft) 1. Pinus tacda	10	Species'	Status	Number of Dominant Species That Are OBL, FACW, or FAC:
2. Liquidambar styraciflua 3. avercus alba	10	<u>y</u>	FACU	Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				Prevalence Index worksheet:
7.		a top land		Total % Cover of: Multiply by:
8.				OBL species x 1 =
	30	= Total Co	ver	
50% of total cover: 15	20% of	total cove	. 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)				FAC species x 3 =
1. Fugus grunditolia	10		FACU	FACU species x 4 =
2. Ilex opara	10	<u>y</u>	FAC	UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6	110 - 10 15 1 10 0	WAS TREE TO STREET		1 - Rapid Test for Hydrophytic Vegetation
7	The last section of	and the same	100000000000000000000000000000000000000	≥ 2 - Dominance Test is >50%
8. The state of th	20	Statement and	-	3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of	total cove		
Herb Stratum (Plot size: 30ff x 30ff)		V	Engl	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	_5_	1	FACO	be present, unless disturbed or problematic.
2		The second second	100	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.		Commence of the contract of		height.
6	Serger and the		_ <u>1.000</u> 10000	Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.		2000		Herb - All herbaceous (non-woody) plants, regardless
9.	a management			of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11.	140.67		2.14.6.24	height.
12.				
		= Total Co		The state of the s
50% of total cover: 2,5	20% of	total cove		
Woody Vine Stratum (Plot size: 30 ft. x 30ft.)				
1. Smilax rotundifolia	5	У	FAC	
2		TENTES V		
3.				
4.	11.		Tund I	[발표:18.18 - 18.18] - [11.18] - [11.18] - [11.18]
5	Part of France			Hydrophytic
	5	= Total Co	ver	Vacatation
50% of total cover: 2.5				Present? Yes X No
Participation of the company of the participation o		total cove	die en en en en	
Remarks: (If observed, list morphological adaptations belo	w).			

th	Matrix		Redox Featur	T-cl 1-2	Taytura	Remarks
nes)	Color (moist)		Color (moist) %	Type Loc2	Texture	Kellidiya
5_	2545/2	100		Application of the House of		
- 8	2.5/1/3	100				
05	2.51 44	100				
e: C=C Ic Soll Histosol Histic E Black H Hydroge Stratifie Organic	oncentration, D=Deplications: (Applications: (Applications) (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Eddies (A6) (LRR F	pletion, RM=F cable to all L	Reduced Matrix, MS=Maske RRs, unless otherwise no Polyvalue Below Surf Thin Dark Surface (S Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface	ted.) ace (S8) (LRR S, T, I 9) (LRR S, T, U) I (F1) (LRR O) (F2)	Indicators for I Indicators f	(A10) (LRR S) ertic (F18) (outside MLRA 150A, E Toodplain Soils (F19) (LRR P, S, T Bright Loamy Soils (F20)
	ucky Mineral (A7) (L		Depleted Dark Surface			t Material (TF2) ow Dark Surface (TF12)
	resence (A8) (LRR l uck (A9) (LRR P, T)	(۱	Redox Depressions (Marl (F10) (LRR U)	-8)		lain in Remarks)
	d Below Dark Surface	ce (A11)	Depleted Ochric (F11) (MLRA 151)		
Coast P Sandy M Sandy G Sandy F Stripped Dark St	Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR P,	LRR O, S) S, T, U)	Iron-Manganese Mas Umbric Surface (F13) Delta Ochric (F17) (N Reduced Vertic (F18) Piedmont Floodplain Anomalous Bright Lo	(LRR P, T, U) LRA 151) (MLRA 150A, 150B Soils (F19) (MLRA 1-	wetland unless o) 49A)	s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
	Layer (if observed)					
ype:	MANAGEMENT TO THE STATE OF THE	an en			Hydric Soll Pre	sent? Yes No X
epth (in	iches):				Trydite con the	30111



Upland data point wsuo023_u facing northwest.



dwater Loca	ion, Township, Range: I relief (concave, convex, Long:	none):
Lat: 36.710 Lat: 36.710 Lat: 36.710	ion, Township, Range: I relief (concave, convex, Long:	State VA Sampling Point: WSupus A-1 N A none): Concave Slope (%) / 76.7230 Datum: WG-5 S
Lat: 36.710 Lat: 36.710 Lat: 36.710	ion, Township, Range: I relief (concave, convex, Long:	NA none):
Lat: 36.710 Lat: 36.710 Lat: 36.710	I relief (concave, convex,	none):
Lat: 36.710 Lat: 36.710 Lat: 36.710	Long:	NWI classification: PFO 1/4 C
e Sandy loam site typical for this time of year?		NWI classification:PFO1792
e Sandy loam site typical for this time of year?		NWI classification:PFO1792
site typical for this time of year?	Yes No	
		(If no, explain in Remarks.)
drology significantly distu		Circumstances" present? Yes No
drology naturally problem		explain any answers in Remarks.)
ich site map showing sar	npling point location	ons, transects, important reatures, etc.
Yes No	Is the Sampled Area	
Yes No		Yes No
Yes No	Within a Welland?	HOME THE STATE OF
wester forest		
WW. C. 10/12		
		Secondary Indicators (minimum of two required)
		Surface Soil Cracks (B6)
		Sparsely Vegetated Concave Surface (B8)
		Sparsely Vegetated Concave Surface (35) Drainage Patterns (B10)
		Moss Trim Lines (B16)
		Moss Hill Ellies (B10) Dry-Season Water Table (C2)
Oxidized Rhizospheres	along Living Roots (C3)	Crayfish Burrows (C8)
Presence of Reduced In	on (C4)	Saturation Visible on Aerial Imagery (C9)
		Geomorphic Position (D2)
		Shallow Aquitard (D3)
	KS)	FAC-Neutral Test (D5)
(87)		Sphagnum moss (D8) (LRR T, U)
		Springfiam moss (2-6) (2-44-7)
No Donth (inches):	2	
선사 그리다 회의 이렇게 되는 나는 생각이 되는 것이 되었다면 하는 것이 없었다면 이 회의에 가장 되었다면 하고 되었다.	0	
		Hydrology Present? Yes No
monitoring well, aerial photos, pr	evious inspections), if ava	ailable:
•		
	Yes No Yes No No Yes No No Yes No No Yes No Yes No Yes No No Yes No No Yes No	rich site map showing sampling point location Yes

17.05 17.05	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size 30ff > 30ff)	% Cover	Species?		Number of Dominant Species 7
1. Liquidambar styracitina		7	FAC	That Are OBL, FACW, or FAC: (A)
2. Pinus taeda	15		FAC	Total Number of Dominant
3. Acerrubrum	25	<u>y</u>	FAC	Species Across All Strata: (B)
4.				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
				mat Ae OBE, 1 AGW, a 1 AG
6				Prevalence Index worksheet:
7.			The second second	Total % Cover of: Multiply by:
8.	65	- P. C. (1980a)		OBL species x 1 =
21	62	= Total Co	/er 12	FACW species x 2 =
50% of total cover; 32.	3 20% of	total cover	:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3044 > 3044)		1	00	FACU species x 4 =
1. Pinus Tarda	20	<u> </u>	FAC	UPL species x5 =
2. Acer rubrum	40	<u> </u>	FAC	4 - [102](101)(104)(104)(104)(104)(104)(104)(104)
3. Ilex opaca	5	N	FAC	Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
AND AND AND PROPERTY OF THE PR				1 - Rapid Test for Hydrophytic Vegetation
6.				
7				✓ 2 - Dominance Test is >50%
8.	1=	THE RESIDENCE OF		3 - Prevalence Index is ≤3.01
22	- 05	= Total Co	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 32.	<u>></u> 20% of	total cover	:_/3_	
Herb Stratum (Pict size: 30H x 30H)				¹ Indicators of hydric soil and wetland hydrology must
1 Arundinaria gigantea	90	<u>Y</u>	FACW	be present, unless disturbed or problematic.
2. Morella cerifera	5	N	FAC	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
4.				height.
5.				- u and to the state avaluding vines less
				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	and the second		Section of the control	of size, and woody plants less than 3.28 ft tall.
10.			<u> </u>	Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12.	1.0000000000000000000000000000000000000			
	95	= Total Co	/er	
50% of total cover: 47.	5 20% 0	total cover	. 19	
Woody Vine Stratum (Plot size: 3011 × 3011)				
1. Smilex cotunditalia	5	4	FAC	
1. 3m1/2× 181 and 17 8112			1110	
2.		200	**************************************	
3				
4.		A STATE OF THE STA		
5.				Hydrophytic
	5	= Total Co	ver	Vegetation
50% of total cover: 2.5	20% 0	f total cover	. /	Present? Yes V No
Remarks: (If observed, list morphological adaptations belo				CONTRACTOR
Remarks: (if observed, list morphological adaptations belo	JW).			

Profile Description: (Describe to the depth			rconfirm	the absence of	Indicators.)
Depth Matrix (inches) Color (moist) %	Redox Featur	Type	Loc ²	Texture	Remarks
0-10 10 YR 4/1 90	10 YR 5/6 10	C	PL	SCL	
	10 40 6/6 10	<u> </u>	M	SCL	
10-20 10 YK 6/1 90	10 12 010 10			30-	
			4000		
					A second of the
					And the second s
				Access of the second	The second secon
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, MS=Mask	ed Sand Gra	ins.	² Location: Pl	L=Pore Lining. M=Matrix.
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise n	oted.)			r Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Sur				ck (A9) (LRR O) ck (A10) (LRR S)
Histic Epipedon (A2)	Thin Dark Surface (S Loamy Mucky Minera			Reduced	Vertic (F18) (outside MLRA 150A,B)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Gleyed Matri:		0,	Piedmon	t Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)			Anomalo	us Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface	(F6)		(MLRA	
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surfa	\$250 P. C.			ent Material (TF2) allow Dark Surface (TF12)
Muck Presence (A8) (LRR U)	Redox Depressions	(F8)			xplain in Remarks)
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11)	Marl (F10) (LRR U) Depleted Ochric (F1	1) (MLRA 15	(1)		
Thick Dark Surface (A12)	Iron-Manganese Ma			T) ³ Indicat	ors of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)			U)	wetlar	nd hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (I		0.0 4508)		s disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18 Piedmont Floodplain				
Sandy Redox (S5) Stripped Matrix (S6)	Anomalous Bright Lo	camy Soils (I	20) (MLF	RA 149A, 153C, 1	153D)
Dark Surface (S7) (LRR P, S, T, U)					
Restrictive Layer (if observed):				F SA SENS MEN BURNEY	
Type:	<u></u>				
Depth (inches):				Hydric Soll P	resent? Yes V No
Remarks:	ran araz e zonen e sezat e senere ezak				
PRODUCES TO THE PROPERTY OF T			needs below the	THE PROPERTY OF STREET	PRINTED AND ANY MANAGEMENT AND THE SERVICE HAVE LAND ANY OF MANAGEMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT



Wetland data point wsup037f_w facing southeast.



Wetland data point wsup037f_w facing northeast.

Project/Site: A CP Applicant/Owner: Domin Investigator(s): ESI-M.3 Landform (hillslope, terrace etc.): Subregion (LRR or MLRA): LR Soil Map Unit Name: Suffol Are climatic / hydrologic conditions	Hillslope RT Lat: 3 K Damy Sand	Section, Townshi	p, Range:	VH Sam	opling Date: 1/8/16 opling Point: Wsup 037
Applicant/Owner: Domination Investigator(s): ESI-M.S Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LR Soil Map Unit Name: Suffol Are climatic / hydrologic conditions	Hillslope RT Lat: 3 K Damy Sand	Section, Townshi	p, Range:	VH Sam	pling Point: Wsup 037
Investigator(s): ESI-M.S Landform (hillslope, terrace etc.): Subregion (LRR or MLRA): LR Soil Map Unit Name: Suffol Are climatic / hydrologic conditions	Hillslope RT Lat: 3 K Damy Sand	Section, Townshi	p. Range:		
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LR Soil Map Unit Name: Suffol Are climatic / hydrologic conditions	Hillslope RT Lat: 3 K Damy Sand	Local relief (conc		NA	
Subregion (LRR or MLRA): <u>LR</u> Soil Map Unit Name: <u>Suffol</u> Are climatic / hydrologic conditions	K Damy Sand	6.7106	ave convex none	concav	Slope (%)
Soil Map Unit Name: 50+fol Are climatic / hydrologic conditions	K Damy Sand		Jana: -76	5.7233	Datum: WGS 8
Are climatic / hydrologic conditions			Long		NA
				NWI classification	
			No (If no	, explain in Remar	ks.)
Are Vegetation, Soil	_, or Hydrology significa	intly disturbed?			nt? Yes No
Are Vegetation, Soil				in any answers in I	
SUMMARY OF FINDINGS -	- Attach site map show	ing sampling po	int locations	transects, im	portant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No V		npled Area Vetland?	Yes	No
HYDROLOGY					(minimum of two required)
Wetland Hydrology Indicators:			CONTRACTOR OF THE PROPERTY OF		#LINESHARING # # # # # # # # # # # # # # # # # # #
Primary Indicators (minimum of o				Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna		-		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits ()	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfi		D1- (C2)	Moss Trim Lines (Dry-Season Wate	
Water Marks (B1)		spheres along Living			
Sediment Deposits (B2)	Presence of Re	eduction in Tilled Soils	(CE)		on Aerial Imagery (C9)
Drift Deposits (B3)	Recent from Re		(00)	Geomorphic Posi	
Algal Mat or Crust (B4)	Other (Explain	[[[[[[[]]] [[[]] [[]] [[]] [[]] [[]] [Shallow Aquitard	
Iron Deposits (B5)	: [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	III Remarks)		FAC-Neutral Test	
Inundation Visible on Aerial I Water-Stained Leaves (B9)	nagery (D7)			Sphagnum moss	
Field Observations:		A CALL OF THE STATE OF T	74 TELEVISION (25 TELEVISION)		THE WEST CONTRACTOR OF THE SAME
	es No Depth (inc	thes): NA			
	es No Depth (inc	thes): 720			
Saturation Present? Y	es No Depth (inc	thes): 720	Wetland Hydr	ology Present?	YesNo
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well, aerial p	hotos, previous inspe	ctions), if availab	e:	
	•				
Remarks:					
Nemarks.					

Sampling Point: WSUP 037_4

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff × 30ff)	% Cover	Species?		Number of Dominant Species That Are OBL FACW of FAC: (A)
1. Pinus taeda	75			That Are OBL, FACW, or FAC: (A)
2. Quercus nigra	10	N	FAC	Total Number of Dominant
3. Liquidambar styraciflua	10	N	FAC	Species Across All Strata: (B)
4.				
The state of the s				Percent of Dominant Species That Are ORL EACW or EAC: (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
	95	= Total Cov	er	OBL species x 1 =
50% of total cover: 47.	2004 -	4-4-1	19	FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30f4 x 30f4)		,	- 100	FACU species x 4 =
1. Morella cerifera	10	N	FAC	Salambarana (alikaban) bir ili da alikaban karana karana da bir ili da Peranggan bir ili da 1990 bir ili da 199
2. Aralia spinosa	10	N	FAC	UPL species x 5 =
3. Pinus taeda	40	Y	FAC	Column Totals: (A) (B)
	10	N	FAC	
4. Acer rubrum	10	_N_	FNU	Prevalence Index = B/A =
5	1.755	1.15		Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
THE THE STATE OF THE PROPERTY				× 2 - Dominance Test is >50%
7	70.000	-11 VE 10 C		
8.		All the state of t		3 - Prevalence Index is ≤3.01
	_10	= Total Co	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 35	20% of	total cover	19	
Herb Stratum (Plot size: 304 x 304)				¹ Indicators of hydric soil and wetland hydrology must
1. Rubus argutus	50	Y	FAC	be present, unless disturbed or problematic.
		STREET, SCHOOLS	ASSESSMENT AND STORY	Definitions of Four Vegetation Strata:
2		Extra matrix meta-	a stronger to the	Definitions of Pour Vegetation Ctrata.
3.		2000x 10000		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.				height.
THE SECOND CONTRACTOR OF THE PROPERTY OF THE P				a water to Missalusiants evaluding vines less
6.				Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.	MARKET 18		ALCED VIOLENCE	
8.			22 (2002) - 1	Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
2. I delle access a legeral de legeral de la company de la				Woody vine – All woody vines greater than 3.28 ft in height.
11.	Edition to the second	Shirt test sense	THE SHARE STATE OF THE SHARE STA	neight.
12.	ACALMAN SANS		2712 10 12 10 1	
	50	= Total Co	rer _	TOTAL TO A CONTROL OF THE PROPERTY OF THE PROP
50% of total cover: 25	20% of	total cover	. 10	[10] [10] [10] [10] [10] [10] [10] [10]
Woody Vine Stratum (Plot size: 30ff × 30ff)			A VENEZA	
Woody Vine Stratum (Plot Size.	50	V	FACU	
1. Lonicera japonica			Theo	
2.				
3.				[발생] 보다 하는 나무를 하나 되었다면 하는 것은 것은 것이 없는데 되었다.
		1 4 10 1 10 1		
4		e-mortynysis	April 1881 Page	
5. A Committee of the control of the		THE PROPERTY OF STREET	and the second	Hydrophytic
	50	= Total Co	/er	Vegetation Present? Yes X No
50% of total cover: 25	20% of	total cover	: 10	Present? Yes No
Remarks: (If observed, list morphological adaptations belo		AND THE PARTY OF THE		
Remarks: (If observed, list morphological adaptations being	w).			

Profile Des	cription: (Describe	to the depth	needed to docu	nent the Ir	ndicator	r confirm t	the absence of Indicato	rs.)	
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc² -	Texture	Remarks	
0-3	2.54 3/2	100				A PROPERTY OF THE PARTY OF THE	FSL FSL		
3-6	2.543/2	50		50			-		
18 - 13	2.54 6/4	50					F5L		
6-15	2.54 6/4	100				VALUE OF THE PROPERTY OF THE P	FSL	Santa to manuscript	
15-20	2.5 1 6/4	100		10000			SCL		
12 00	213119	100		-			THE RESERVE OF THE PARTY OF		
		-	The second second second		and the state of				
							2	M-Male	
¹Type: C=C	concentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ins.	² Location: PL=Pore L Indicators for Proble	matic Hydric	Soils ³ :
	Indicators: (Applic	cable to all L							
Histoso			Polyvalue Be				2 cm Muck (A10)	(LRR S)	
A SAMERA COLOR COUNTY	pipedon (A2)		Loamy Muck				Reduced Vertic (F	18) (outside l	MLRA 150A,B)
Charles and the control of the contr	listic (A3) en Sulfide (A4)		Loamy Gley			Ĭ	Piedmont Floodpl	ain Soils (F19)	(LRR P, S, T)
	d Layers (A5)		Depleted Ma				Anomalous Bright	Loamy Soils	F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		6)		(MLRA 153B)		
	ucky Mineral (A7) (L		Depleted Da				Red Parent Mater		2)
Muck P	resence (A8) (LRR I	۵)	Redox Depr		3)		Very Shallow Dar		2)
1 cm M	uck (A9) (LRR P, T)		Marl (F10) (I		M11 D 6 4 5	41	Other (Explain in	(Cilialks)	
	d Below Dark Surface	ce (A11)	Depleted Oc Iron-Mangar				r) 3Indicators of hy	drophytic vege	tation and
	ark Surface (A12) Prairie Redox (A16) (MILEA 450AV					wetland hydro	ogy must be p	resent,
	Mucky Mineral (S1) (Delta Ochric				unless disturb		
	Gleyed Matrix (S4)	, L, (, , , ,	Reduced Ve			DA, 150B)			
	Redox (S5)		Piedmont FI	oodplain S	oils (F19)	(MLRA 149	A)		
	d Matrix (S6)		Anomalous	Bright Loan	ny Soils (F	20) (MLRA	A 149A, 153C, 153D)		
	urface (S7) (LRR P,								
Restrictive	Layer (if observed):							
Type:								V	No L
Depth (in	nches):					Merchanical Company	Hydric Soll Present?	165	
Remarks:	AT ANY AL CONTROL OF THE LOCAL								
								nergona se nativo de	



Upland data point wsup037_u facing northwest.



Upland data point wsup037_u facing south.

Investigator(s): EST-M.Smith, K. Murphrey Sect Landform (hillslope, terrace, etc.): Drainage Local Subregion (LRR or MLRA): LRRT Lat: 36.7123 Soil Map Unit Name: Rains Fine Sandy warm Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation, Soil, or Hydrology significantly disturbed are Vegetation, Soil, or Hydrology naturally problem.	State: VA Sampling Point: WSUPDATE. stion, Township, Range: NA al relief (concave, convex, none): CONCAVC Slope (%): O-2 Leng: 76.7197 Datum: W65 8 NWI classification: PFO Yes No (If no, explain in Remarks.) Inbed? Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:	Is the Sampled Area within a Wetland? YesNo
HYDROLOGY Wetland Hydrology Indicators: Primacy Indicators (minimum of one is required; check all that apply) Surface Water (A1)	(C1)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, presents:	Wetland Hydrology Present? Yes No No

2 51312 5	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X 308+		Species'	Status	Number of Dominant Species
1. Ilex opaca	50		FAC	That Are OBL, FACW, or FAC: (A)
2 Liquidambar Styraci Fluor	30		FAC	Total Number of Dominant
3. Nyssa bislora	5	N	OBL	Total Number of Dominant Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				That Ale OBE, FACW, of FAC.
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0	85	= Total Co		OBL species x 1 =
50% of total cover: 42.				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:30 Ft X 30 Ft)	<u> </u>	total cove	1 /	FAC species x 3 =
1. Pinus toeda	20	N	FAC	FACU species x 4 =
2. Ilex oraca	15	N	FAC	UPL species x 5 =
		10		Column Totals: (A) (B)
3. Liviodendron talipitera	20	N	FACH	(5)
4. Liquidamba Staraciflua	12	N	FAC	Prevalence Index = B/A =
5. Magnulia Virginiana	72	N	FACW	Hydrophytic Vegetation Indicators:
6. Clethro alnifolia	30	\prec	FACH	1_Rapid Test for Hydrophytic Vegetation
7. Queveus pigra	_5_	N	FAC	2 - Dominance Test is >50%
B. VARCINIUM CORAMDOSUM	5	N	FACW	3 - Prevalence Index is ≤3.01
	125	= Total Co	ver .	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 62.	5 20% of	total cover	: 25	
Herb Stratum (Plot size: 30ft X308+)		١.		¹ Indicators of hydric soil and wetland hydrology must
1 Avundinación gigortea	50	Y	FACW	be present, unless disturbed or problematic.
2 Woudwardia aredota	20	Y	OBL	Definitions of Four Vegetation Strata:
3.		-		
	A TOTAL CONTRACTOR			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 III. Don and greater than 3.20 it (1 iii) tail.
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.				
	70:	Total Co	/er	
50% of total cover: <u>35</u>	20% of	total cover	: 14	
Woody Vine Stratum (Plot size: 3UF 1 X3UF 4			_	
1. Smilax rotundifolia	20	7	FAC	
2.	ngawara na manana			2 8
3.				5
4.				
5				
5	20:	T-4-1 O-		Hydrophytic Vegetation
500 500 10		Total Cov	1.1	Present? Yes No No
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations below	w).			
	1111 1110			

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment me	naicator	or commit	the absenc	e of mulcator	3.7	
Depth	Matrix			ox Feature		1 2	T		Remar	k.
(inches)	Color (moist)	- %	Color (moist)	%	Type	_Loc*_	M L	muc		KS
0-6	104R3/1	100					7111	muc	7	
6-10	104R5/1	100					PSL			
10-20	104R5/1	100					5			
-	1-11									
¹Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, M	1S=Masked	Sand Gra	ains.		: PL=Pore Li		
Hydric Soil	Indicators: (Appli	cable to all I	RRs, unless othe	erwise not	ed.)		Indicator	s for Probler	natic Hyd	ric Solis³:
Histosol			Polyvalue B			RR S, T, U	J) 1 cm	Muck (A9) (L	RR O)	
	pipedon (A2)		Thin Dark S					Muck (A10) (
Black H	stic (A3)		Loamy Muc			(O)				de MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		F2)					19) (LRR P, S, T)
	Layers (A5)		Depleted M		-61			nalous Bright LRA 153B)	Loamy Sc	nis (F20)
	Bodies (A6) (LRR		Redox Dark Depleted Da		100			Parent Materia	al (TF2)	
	icky Mineral (A7) (L resence (A8) (LRR		Redox Depr					Shallow Dark		TF12)
	ick (A9) (LRR P, T)		Marl (F10) (0,			r (Explain in F		2 33
	d Below Dark Surfa		Depleted O		(MLRA 1	51)				
	ark Surface (A12)		Iron-Manga	nese Mass	es (F12) (LRR O, P,				egetation and
_	rairie Redox (A16)					, U)		etland hydrolo		
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			0.0 4505)		nless disturbe	d or proble	ematic.
	Sleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont F				19A) RA 149A, 153	C. 153D)		
	l Matrix (S6) rface (S7) (LRR P,	STID	_ Alomaious	Bright Loa	illy don's (i	20) (111211	140/1, 100	o,,		
Daik Su	Hace to Hitelini	0, 1, 0,								
Restrictive							T			
Programme and the second	Layer (if observed									/
Туре:	Layer (if observed		_				Hydric Sc	oll Present?	Yes	
Type: Depth (in							1			
Туре:	Layer (if observed)):		0.6			1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	W	1			No
Type: Depth (in	Layer (if observed)):	laterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	naterial	pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	pre	sent	· W	1			
Type: Depth (in Remarks:	Layer (if observed)):	aterial	Pre	sent	· W	1			



Wetland data point wsup021f_w facing south.



Wetland data point wsup021f_w facing west.

Project/Site: ACP City/	County: SUFFOIK Sampling Date: 12/10/15
Project/Site: ACP Applicant/Owner: Dominion City/	State: VA Sampling Point: Wsup 021-L
Investigator(s): EST-M. SMIHA, K. MURPHYES Sect	
	al relief (concave, convex, none): (Onvex Slope (%) 2-4
Subregion (LRR or MLRA): LRRT Lat: 36.712	Lcng: 76.71946 Datum: W658L
Soil Map Unit Name: Rains Fine Sandy Idam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	irbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Scil, or Hydrology naturally problem	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
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) (LR	
Saturation (A3) Hydrogen Sulfide Odor (to the same of the
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	, A
Surface Water Present? Yes NoDepth (inches):	A
Water Table Present? Yes No Depth (inches): >	20"
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	·
Describe Recorded Data (stream gauge, monitoring well, deliai photos, pre	yrious inspections), ii available.
Remarks:	
Nemarks.	

2011/2.51			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size 3084 X 3084)		Species	? Status	Number of Dominant Species
1. Acer rabrum	_5	7	FAC	That Are OBL, FACW, or FAC: (A)
2 Quercus coccinea	_5_	7	UPL	Total Number of Dominant
3. Liviodendrun tulipisero	_5_	7	FACU	Species Across All Strata:(B)
4. QUETCUS VELUTION	5	4	UPL	
5		,		Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
6				mat we obe, i now, a rao (705)
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	20	= Total Co		OBL species x 1 =
				FACW species 40 x2= 80
50% of total cover: LO	20% of	total cove	r: <u>4</u>	FAC species 95 x3 = 285
Sapling/Shrub Stratum (Plot size 305+ X305+)	2 8	0.1		FACU species 35 x 4 = 140
1. I IPX OPOCO	20	N	FAC	UPL species 10 x5 = 50
2. Symplocos tinctoria	20	N	FAC	100
3. Liviodendron fulipisera	30		FACU	Column Foldis: (F)
4. Quercus nigra	10	N	FAC	Prevalence Index = B/A =3,08
5. Liquidambar Styraciflua	15	N	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium corymbosam	10	N	FACW	
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
0	105	= Total Co		3 - Prevalence Index is ≤3.01
50% of total cover: _52.4				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cove	r	
Herb Stratum (Plot size: 308+X306+)	20	Y	-0 -1	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	30		FACW	be present, unless disturbed or problematic.
2. Rubus Argutus	_5_		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
5				height.
6			A. A	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 of size, and woody plants less than 3.28 ft tall.
9				or size, and troody plants ross than old it tall
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	7.5			
17	_	= Total Co	7	
50% of total cover: 17.	20% of	total cover		
Woody Vine Stratum (Plot size: 50 51 X 3054)	-	V		
1. Vitis rulundifolia		/	FAC	
2. Smilax rutundisolia	15	Y	FA-C	
3				
4.		1515 ms A 42 APPRICATE		
5.				Lludraphytla
	20	= Total Co	/er	Hydrophytic Vegetation
50% of total cover: 10		total cover	14	Present? Yes No
		total cover	· — —	
Remarks: (If observed, list morphological adaptations below	w).			
0				

Profile Des	cription: (Describe	to the dept				or confir	n the absence	of Indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	edox Feature %		Loc²	Texture	R	emarks
()-3	104R3/1	100	Caa (masi)		1700		FSL		
3-14		100					FSL		
<u> </u>	2.595/4		0 = 1		-	- ^			
14-20	2,545/3	98	104R5/9	5 2	C	M	FSL		
	,		,						
¹Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix	. MS=Maske	d Sand G	ains.		PL=Pore Lining	: Hydric Solis ³ :
Hydric Soil	Indicators: (Applic	able to all							
Histoso			Polyvalue					luck (A9) (LRR (luck (A10) (LRR	
	pipedon (A2)		Thin Dark						outside MLRA 150A,B
	istic (A3) en Sulfide (A4)			ucky Mineral leyed Matrix	50.5	(0)	Piedmo	ont Floodplain S	oils (F19) (LRR P, S, T)
	d Layers (A5)			Matrix (F3)	(1 2)			lous Bright Loan	
	: Bodies (A6) (LRR F	P, T, U)		ark Surface (F6)		(MLF	RA 153B)	
	ucky Mineral (A7) (L			Dark Surface			_	arent Material (T	
	resence (A8) (LRR L		Redox Do	epressions (F	8)			hallow Dark Sur	
	uck (A9) (LRR P, T)) (LRR U)			Other (Explain in Rema	arks)
	d Below Dark Surfac	e (A11)		Ochric (F11)			31-45-	ators of hydroch	ytic vegetation and
	ark Surface (A12)			ganese Mass				land hydrology n	
	rairie Redox (A16) (iurface (F13) hric (F17) (M				ess disturbed or	
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LKK O, S)		Vertic (F18)					
	Redox (S5)			t Floodplain S					
	Matrix (S6)		Anomalo	us Bright Loa	my Soils	(F20) (ML	RA 149A, 153C	, 153D)	
	urface (S7) (LRR P,	S, T, U)							
Restrictive	Layer (if observed)	:			1, 20, 30				
Туре:									
Depth (in	nches):						Hydric Soil	Present? Ye	s No
Remarks:									
i e									



Upland data point wsup021_u facing east.



Upland data point wsup021_u facing south.

Project/Site: ACP City/Co	unty: Saffork Sampling Date: 12/10/15
Applicant/Owner: DOMINION	State: VA Sampling Point: WSUP 0245_
Investigator(s): EST-M. Smith, K. Murphrey Section	Township Pance: NA
	elief (concave, convex, none): £(0+ Slope (%): 0-2
Landform (hillslope, terrace, etc.): Flot Local re	8 Long: 76.71584 Datum: V.6584
	Datum: VOD 3 2 0
Soil Map Unit Name: Rains Fine Sordy 1000	NWI classification: P 5 5
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation, Soil, or Hydrology significantly disturbed	ed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problemat	
SUMMARY OF FINDINGS - Attach site map showing same	
Hydrophytic Vegetation Present? YesNo	Is the Sampled Area
Undrie Soil Present?	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR	1.500
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres alo	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction In T	Geomorphic Position (D2)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks	
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? YesNo Depth (inches):	
Water Table Present? Yes No Depth (inches): 16	
Saturation Present? Yes V No Depth (inches): 6	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	ous inspections), if available.
Remarks:	
I .	

0.1.1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+X 308+)		Species?		Number of Dominant Species 5
1. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: (A)
2.				Table based Benjami
3.				Total Number of Dominant 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				Prevalence Index worksheet:
7				
8.				Total % Cover of:Multiply by:
	()	= Total Cov	/er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20 70 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 306+ X305+)	20	01	FAC	FACU species x 4 =
1. Pinus taeda	-00-	-14		UPL species x 5 =
2. QUETCUS nigro	10	_ N_	FAC	Column Totals: (A) (B)
3. IIRX OPACA	10	N	FAC	Column Totals (A) (B)
4. ACEY YUDIUM	S	N	FAC	Prevalence Index = B/A =
5. Clethra ainifolia	50	7	FACW	Hydrophytic Vegetation Indicators:
6. Liquidambor Sturacistua	5	N	FAC	1
7. Aralia spinosa	- 2	N	FAC	Rapid Test for Hydrophytic Vegetation
	5	~	CIPL	2 - Dominance Test is >50%
8. Rhus copallinum				3 - Prevalence Index is ≤3.01
	101	= Total Cov	er . /ı	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>53,</u>	5 20% of	total cover	21.4	
Herb Stratum (Plot size: 3084X 3084)				¹ Indicators of hydric soil and wetland hydrology must
. Arundinavia ainesias	80	Y	FACW	be present, unless disturbed or problematic.
2 Rubus argutus	20	1		Definitions of Four Vegetation Strata:
2. 12001) 21 9011013	0.0		(110	Definitions of Four Vegetation Ctrata.
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.
				at at All to the construction was to plants regardless
8				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 o.zo it tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	100	= Total Cov	/er	
50% of total cover:SC		total cover		
Woody Vine Stratum (Plot size 30 84 X3084)				
1. Smiles glanca	10	Y	FAC	
1. Junion giantea	10		1110	
2				
3				
4				
5				Hydrophytic
	10	= Total Co	/er	Vegetation
500/ -44-4-1		total cover	-	Present? Yes No
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describe	to the dept				or confirm	the absence	of Indicator	rs.)	
Depth	Matrix		Color (moist)	Features	Type Type	Loc²	Texture		Remarks	
(inches)	10483/1	1 (57)	Color (moist)	%	Туре	Loc	FSL		Remarks	
0 6	1041371	100					-			
0-13	109R 5/1	90	104R5/6	10		M	SCL			
15-20	104R5/1	80	10485/6	20	C	~	50			
	-									
¹Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	=Masked	Sand Gr	ains.			ning, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators	for Probler	natic Hydric S	oils":
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, U		Muck (A9) (L		
Histic E	pipedon (A2)		Thin Dark Su					Muck (A10) (
	istic (A3)		Loamy Mucky			(0)			18) (outside Mi	
	en Sulfide (A4)		Loamy Gleye		F2)				in Soils (F19) (
	d Layers (A5)	T 10	Depleted Mat		(G)			RA 153B)	Loamy Soils (F	
	Bodies (A6) (LRR P		Redox Dark S Depleted Dar					Parent Materi	al (TF2)	
	ucky Mineral (A7) (LI resence (A8) (LRR L		Redox Depre						Surface (TF12)
	uck (A9) (LRR P, T)	"	Marl (F10) (L		-,			(Explain in F		
	d Below Dark Surfac	e (A11)	Depleted Oct		(MLRA 1	51)				
	ark Surface (A12)		Iron-Mangane	ese Mass	es (F12) (LRR O, P,			Irophytic vegeta	
	rairie Redox (A16) (I								ogy must be pre	
	Mucky Mineral (S1)	LRR O, S)	Delta Ochric	7				less disturbe	d or problemati	C.
	Gleyed Matrix (S4)		Reduced Ver Piedmont Flo							
	Redox (S5)		Anomalous B					C. 153D)		
	d Matrix (S6) urface (S7) (LRR P, S	S T U)	///////////////	ingin Loai	113 00113 (1 20) (7, 1407.1, 1003	,,		
	Layer (if observed)									_
Type:									1/	
	iches):						Hydric Sol	I Present?	Yes	No
Remarks:										
I .							147			



Wetland data point wsup024s_w facing east.



Photo Sheet 1 of 3

Project/Site: ACP	ity/County: SUFF01	<	Sampling Date: 12/8/15
Applicant/Owner: Oominion		State: VA	Sampling Point: WSup 024f-W
Investigator(s): ESI-M. SMith, K. MURPHREY	Section Township Range:	NA	
	ocal relief (concave, convex		Slope (%): 0-2
Landrorm (missippe, terrace, etc.).	450 Long:	767155	5 Datum: W6584
J			
Soil Map Unit Name: Rains Fine sondy loam			ation: PFO
Are climatic / hydrologic conditions on the site typical for this time of year		(If no, explain in R	1/
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Norma	al Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (If needed,	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locati	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland?	Yes	
Wetland Hydrology Present? Yes No Remarks:	within a vvenance		
HYDROLOGY		0 1 1 5	A (oddien of the society)
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	
Surface Water (A1) Aquatic Fauna (B13)		Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2) — Marl Deposits (B15) — Saturation (A3) — Hydrogen Sulfide Oc		Moss Trim Li	77
The state of the s	res along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) — Valer Marks (B1) — Oxidized Kilizospher — Presence of Reduce		Crayfish Burn	The state of the s
	on in Tilled Soils (C6)	-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (Position (D2)
Iron Deposits (B5) Other (Explain in Re		Shallow Aqui	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? YesNo Depth (inches):	NA		
Water Table Present? Yes No Depth (inches):			
Saturation Present? Yes No Depth (inches): (includes capillary fringe)		Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if av	railable:	
D			
Remarks:			
			1
			1
			1
			1

2.6.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3084 × 3084)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	30	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Symplocus tinctoria	10	N	FAC	Total Number of Dominant
3. Liquidambar Styracifica	40	Y	FAC	Total Number of Dominant Species Across All Strata: (B)
4. QUEVEUS DIGVA	10	N	FAC	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				That Are OBL, FACW, of FAC (AB)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	BO			OBL species x 1 =
11.6	40	= Total Cov		FACW species x 2 =
50% of total cover: 45	20% of	total cover	10	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3084 X3064)	20			FACU species x 4 =
1. QUECCUS nigra	20	7	FAC	UPL species x 5 =
2. Ilex opaca	30	1	FAC	
3. Symplocos tinctoria	20		FAC	Column Totals: (A) (B)
4. Vaccinium corumbosum	20	4	FACW	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
-	90	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 45	20% of	total cover	10	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 3084 X3084)	_ 20,00	total cover		In the second se
1. Mitchella repens	2	N	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Arundinaria gigantea	70		FACW	Definitions of Four Vegetation Strata:
2. ATUMETRATION GIGORATED	40	N	FAC	Deminions of Four Vegetation Strata.
3. Symplocos tinctoria			+110	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				neight.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
В				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.				
	27	= Total Cov	/er	
50% of total cover: 3. 5	20% of	total cover		
Woody Vine Stratum (Plot size 30 F+ X30 Fm)				
1. Smilax rutundifolia	31)	Y	FAC	
2				
3				
4				
5	2 .			Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover: 15	20% of	total cover	:_0_	103 103
Remarks: (If observed, list morphological adaptations belo	w).			

	ription: (Describe	to the dep				or confirm	n the absence of Inc	icators.)	
Depth (inches)	Color (moist)	%	Color (moist)	x Feature	Type _	Loc²	Texture	Remar	ks
(inches)	104R2/1	100	OGG IIIGIN				FSL	P (41)	
5 14	10110 H/1	95	104R5/6	5			FSL		
7-13	101/24/1						SCL		
12-40	10413/1	90	104R6/8	10					
¹Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=F		
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicators for P		Irlc Soils":
Histosol	(A1)		Polyvalue Be						
	oipedon (A2)		Thin Dark S					A10) (LRR S)	ide MLRA 150A,B)
	stic (A3)		Loamy Much Loamy Gley	-	-	0)	Piedmont Fle	oodolain Soils (i	F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Ma		1 2/			Bright Loamy So	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		6)		(MLRA 15		
5 cm Mt	icky Mineral (A7) (L	RR P, T, U)						Material (TF2)	(TE12)
	esence (A8) (LRR I	(ل	Redox Depr		8)			Dark Surface in in Remarks)	(1712)
	ick (A9) (LRR P, T) d Below Dark Surfac	e (Δ11)	Marl (F10) (I		(MLRA 1	51)	Other (Expla	iii iii Neiliaiks)	
	ark Surface (A12)	26 (ATT)	Iron-Mangar					of hydrophytic v	
	rairie Redox (A16) (MLRA 150					wetland h	ydrology must l	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochrid					sturbed or probl	ematic.
	Sleyed Matrix (S4)		Reduced Ve Piedmont FI						
	Redox (S5) I Matrix (S6)		Pleamont FI	occipiain s Bright Leai	my Soils (F20) (MLF	RA 149A, 153C, 153I	0)	
	rface (S7) (LRR P,	S. T. U)		Dright Loa	, (, (,	•	
	Layer (if observed)								/
Type:								\	/
Depth (in	ches):						Hydric Soll Pres	ent? Yes	No
Remarks:									
		- 1							



Wetland data point wsup024f_w facing north.



Wetland data point wsup024f_w facing west.

Photo Sheet 2 of 3

Project/Site: ACP	City/County: SUFFOIK	Sampling Date: 12 /8/15
Applicant/Owner: Dominion	State:	VA Sampling Point: Wsup 024-u
Investigator(s): EST-M. Smith, K. MUTPhrey		
Landform (hillslope, terrace, etc.):	Local relief (concave convex none)	Flat Slope (%): 2-4
Subregion (LRR or MLRA): LRRT Lat: 36	.71454 Long-76.	71535 Datum: W6586
Soil Map Unit Name: Round Fine Spring 1000		IWI classification:
Are climatic I hydrologic conditions on the site typical for this time	of year? Yes No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrology signification		mstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturall	problematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point locations, t	ransects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present?	Is the Sampled Area within a Wetland?	Yes No
Remarks:		
HYDROLOGY	Casa	ndary Indicators (minimum of two required)
Wetland Hydrology Indicators:		Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that ap		Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna High Water Table (A2) Marl Deposits		Orainage Patterns (B10)
High Water Table (A2) Marl Deposits Saturation (A3) Hydrogen Sulfi		Moss Trim Lines (B16)
		Ory-Season Water Table (C2)
Sediment Deposits (B2) Presence of R		Crayfish Burrows (C8)
		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Sur	ace (C7) C	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain		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:	219	
	hes): NA	
Water Table Present? YesNo Depth (inc		
Saturation Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial page)		ogy Present? Yes No
Describe Necolded Data (Stream gauge, Memoring Well, Gener,	notes, provisus inspessors, in a remaining	
Remarks:		

2	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 305+X306+) 1. Pinus taeda	% Cover 45	Species?	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	10	N	FAC	
3 Liquidombar Staracifica		N	FAC	Total Number of Dominant Species Across All Strata:(B)
4.				Percent of Dominant Species That Are OBL FACW or FAC: 86% (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	75			OBL species x 1 =
27		= Total Co	ver 5	FACW species x 2 =
50% of total cover: 37.	20% of	total cover	:44.3	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+ x 308+)	20	\/	-1-	FACU species x 4 =
1. TIEX OPACA	20		FAC	UPL species x 5 =
2. Liquidambar Styrocifica	15	N	FAC	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
3. Quercus nigra	20	1	FAC	Column Totals: (A) (B)
4. Oxydendrum arboreum	2	N	FACU	Prevalence Index = B/A =
5. Symplocos tinctoria	20	/	FAC	Hydrophytic Vegetation Indicators:
6. Vaccinium corymbosum	2	N	FACW	1_Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
0	79	= Total Co	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 39, 4	5 20% 0	total cover	15.8	— Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 3064 X 3064)	20 /0 0	total cover	-	1
1. Arundinaria gigantea	5	\/	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Mulle relies graphites	-	Y	-	Definitions of Four Vegetation Strata:
2. Mitchella repens		. /	123.	Delimitions 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 tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	Uk managa sa Marija. 20			
	5	= Total Co	ver	
50% of total cover: 2.5		f total cover		
Woody Vine Stratum (Plot size: 305+1/305+)				
1. Smilax rotundifolia	5	Y	FAC	
			1	
2				
3				
4	-	-		
5	-			Hydrophytic
		= Total Co	1	Vegetation Present? Yes No
50% of total cover: A-S	20% of	f total cover	r:	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Des	cription: (Describe	to the depti	needed to docur	nent the l	ndicator	or confirm	n the absence	of Indicators.)		
Depth	Matrix			x Features		1 = =2	Tautura	-	Remarks	
(inches)	Color (moist)	%	Color (moist)	%	Type	_Loc²	Texture FSL		CHIGHTS	
0-17	104R3/2	100								
12-20	2.545/3	90 2	2.546/4	10	C	M	SCL			
			1							
								-		
										_
¹Type: C=C	oncentration, D=Dep	letion, RM=I	Reduced Matrix, M	S=Masked	Sand Gr	ains.		PL=Pore Lining		
Hydric Soil	Indicators: (Applic	able to all L							c Hydric Solls ^a :	
Histoso	(A1)		Polyvalue Be					fuck (A9) (LRR		
Histic E	pipedon (A2)		Thin Dark Su					fuck (A10) (LRF		:0 A D\
	istic (A3)		Loamy Muck			(0)			outside MLRA 15	
	en Sulfide (A4)		Loamy Gleye		F2)				coils (F19) (LRR P,	3, 1)
	d Layers (A5)	- 10	Depleted Ma		·c\			alous Bright Loa RA 153B)	my dons (F20)	
	Bodies (A6) (LRR P		Redox Dark					arent Material (1	F2)	1
_	ucky Mineral (A7) (LF		Depleted Da Redox Depre					hallow Dark Sur		
	resence (A8) (LRR U uck (A9) (LRR P, T))	Marl (F10) (L		·,			(Explain in Rem		
-	d Below Dark Surfac	o (A11)	Depleted Oc		(MLRA 1	51)		(=		
	ark Surface (A12)	C (A11)	Iron-Mangan				T) ³ India	ators of hydropl	nytic vegetation and	d
	Prairie Redox (A16) (I	MLRA 150A							must be present,	
	Mucky Mineral (S1) (I		Delta Ochric	(F17) (ML	RA 151)	,	unl	ess disturbed or	problematic.	
	Gleyed Matrix (S4)	, -,	Reduced Ve			OA, 150B)			
	Redox (S5)		Piedmont Flo							
	d Matrix (S6)						RA 149A, 153C	, 153D)		
1	urface (S7) (LRR P, S	6, T, U)								
	Layer (if observed):									
Type:										1
	nches):						Hydric Soll	Present? Ye	s No	
Remarks:										
iveillaiks.										
1										
1										
1										
1										



Upland data point wsup024_u facing east.



Upland data point wsup024_u facing south.

Photo Sheet 3 of 3

Project/Site: A C P	City/County: SUFFOIK Sampling Date: 12/8/15
Applicant/Owner: DOMINION	State: VA Sampling Point: WSup023f-
Investigator(s): ESI-M. Smith, K. Murphrey	Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Interstream flat	Local relief (concave, convex, none): Con Cave Slope (%): U-2
Landrorm (nillslope, terrace, etc.).	
Subregion (LRR or MLRA): LRK T Lat: 36.	
Soil Map Unit Name: Rouns fine sondy wor	
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
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 (B:	
✓ High Water Table (A2) Marl Deposits (B1)	15) (LRR U) Drainage Patterns (B10)
✓ Saturation (A3) Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	7.1 (1)
Iron Deposits (B5) Other (Explain in I	
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? YesNo Depth (inches	s):
Water Table Present? Yes No Depth (inches	s): Surface Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inche: (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho-	tos, previous inspections), if available:
Remarks:	

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

2241.72.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 F+ X 30 F4) 1. Pinus + neco	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
	40		FAC	mat Ale OBL, FACW, of FAC (A)
3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 1009 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	7.			OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover: 35	20% of	total cover	T1 :	FAC species x 3 =
Sapling/Shrub Stratum (Plot size 3084 X 3064)	11.0		-^-	FACU species x 4 =
1. I IPX UPaca	40	1	FAC	UPL species x5 =
2. MACCINIUM COYYMOUSUM	60	1	FACW	
3. Symplocos +inctoria	20	N	FAC	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
1000 000 000 000 000 000 000 000 000 00	120	= Total Cov	rer	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 60	20% of	total cover	24	
Herb Stratum (Plot size: 3054 X 3054)	10	4	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinaria gigentea			11.000	Definitions of Four Vegetation Strata:
3.				The state of the s
The state of the s				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				7 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	10			
<		= Total Cov		
50% of total cover:	20% of	total cover		
Woody Vine Stratum (Plot size: 304+X304+)	~	1/	FAC	
1. Smilax rollundifolion	2	-/-	(110	
2				
3				
4				
5				Hydrophytic
	5	= Total Cov	rer .	Vegetation Present? Yes No
50% of total cover: 2 - 5	20% of	total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
				n a

Depth	ription: (Describe t Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc²	Texture		Remarks	
0-10	101/R4/1	100	101 <u>101 101 101 101 101 101 101 101 101</u>				FSL			
0-20	104R4/1	90 10	yR3/6	10	C		SCL			
Type: C=Co ydrlc Soll I Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pro 1 cm Mu Depleted Thick Da Coast Pro Sandy M	concentration, D=Deplindicators: (Applications) (A1) sipedon (A2) stic (A3) in Sulfide (A4) I Layers (A5) Bodies (A6) (LRR P, Cky Mineral (A7) (LR P, Cky Mineral (A7)) desence (A8) (LRR Uck (A9) (LRR P, T) desence (A12) desence (A12) desence (A13) desence (A14) desence (A16) (New Surface (A16) (New Surface (A16)) desence (A16) (New Surface (A16))	etion, RM=Reable to all LR T, U) RR P, T, U) e (A11)	educed Matrix, M. Rs, unless othe Polyvalue Book Thin Dark Sook Loamy Muck Loamy Gley Depleted Makedox Dark Depleted Dakedox Depr Marl (F10) (Income Mangar Umbric Surfored Reduced Ve	erwise note elow Surface (S9) xy Mineral (eed Matrix (F3) Surface (Fark Surface (F11) chric (F11) nese Masse ace (F13) (c: (F17) (ML ertic (F18) (ed.) ce (S8) (L (LRR S, (F1) (LRF F2) c) (F7) d) (MLRA 1 es (F12) (LRR P, T RA 151) MLRA 15	ains. RR S, T, U T, U) O) 51) LRR O, P T, U) GOA, 150B	2Location: Indicators U) 1 cm M 2 cm M Reduce Piedme Anoma (MLF Red Pa Very S Other (T) 3Indic wett unle	for Problet luck (A9) (L luck (A10) (ed Vertic (F ont Floodplat lous Bright (A 153B) arent Materi hallow Dark Explain in I ators of hydiand hydrol	LRR S) 18) (outside N ain Soils (F19) Loamy Soils (F al (TF2) s Surface (TF1)	ILRA 150A,E (LRR P, S, T F20) ation and resent,
Sandy R Stripped Dark Sui Restrictive I	edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (If observed):		Piedmont Fi Anomalous	oodplain S	oils (F19)	(MLRA 1	49A)	, 153D)		
Type: Depth (inc	ches):		_				Hydric Soll	Present?	Yes	No
Remarks:										



Wetland data point wsup023f_w facing east.



Wetland data point wsup023f_w facing south.

Photo Sheet 1 of 2

Project/Site: ACP		City/County: SUFFOIK	Sampli	ng Date: 12/8/15
Applicant/Owner: Dominic	20		State: VA Sampli	ng Point: WSup 023_u
Investigatorial FST-M. SC	nith, K. MUrphrey	Section Township Banga:	NA	
investigator(s): 202 71101	:): WILSTOPE	_ Section, Township, Nange.	COOVE X	Slone (%) D-2
Landform (hillslope, terrace, etc	2RT Lat:36.	Local relief (concave, conve	x, none): 10110	310pe (70)
	> Fine Sandy luom		NWI classification: _	
Are climatic / hydrologic condition	ons on the site typical for this time of y	year? Yes V No No	(If no, explain in Remarks	
	, or Hydrology significantl		nal Circumstances" present?	Yes No
	, or Hydrology naturally p		, explain any answers in Re	marks.)
SUMMARY OF FINDING	S - Attach site map showin	g sampling point locat	ions, transects, impo	rtant features, etc.
Hydrophytic Vegetation Prese	nt? Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area		
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes N	0
Remarks:		- 1		
, tombride				
HYDROLOGY				
HYDROLOGY			Secondary Indicators (m	nimum of two required)
Wetland Hydrology Indicato			Surface Soil Cracks	31 537
The state of the s	of one is required; check all that apply		Sparsely Vegetated	A A .
Surface Water (A1)	Aquatic Fauna (B		Sparsely Vegetated Drainage Patterns (E	
High Water Table (A2)	Marl Deposits (B1		Moss Trim Lines (B1	
Saturation (A3)	Hydrogen Sulfide	heres along Living Roots (C3)		10 / P
Water Marks (B1) Sediment Deposits (B2)	Presence of Redu		Crayfish Burrows (C	
Drift Deposits (B3)		action in Tilled Soils (C6)	Saturation Visible or	
Algal Mat or Crust (B4)	Thin Muck Surface		Geomorphic Position	
Iron Deposits (B5)	Other (Explain in		Shallow Aquitard (D	
Inundation Visible on Aeri	The second secon	The Company of	FAC-Neutral Test (D	
Water-Stained Leaves (B)			Sphagnum moss (Di	3) (LRR T, U)
Field Observations:				
Surface Water Present?	Yes No Depth (inche.	s): NA		
Water Table Present?	Yes No Depth (inche	s): >20		./
Saturation Present?	Yes No Depth (inche	s): 720 Wetland	Hydrology Present? Ye	s No
(includes capillary fringe)		350		
Describe Recorded Data (stre	am gauge, monitoring well, aerial pho	itos, previous inspections), if a	vailable:	
Remarks:	*			
, terriorito				3.

C.C. Vond	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3064 X 3064)		Species?		Number of Dominant Species 3
1. Pinus toeda	10	-/-	FACU	That Are OBL, FACW, or FAC: (A)
2. Que (cus falcata	10	<u>N</u>	FAC	Total Number of Dominant
3. Acel runry	10	$\frac{N}{N}$	FACU	Species Across All Strata: (B)
4. Liriodendron tulipifera	10		THEOL	Percent of Dominant Species 75
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	80	= Total Co		OBL species x 1 =
50% of total cover: 40	200/ -	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 + X 30 + 1)	20% 01	total cover		FAC species x 3 =
1. TICK OPOCO	30	4	FAC	FACU species x 4 =
2. Oxydendrum arboreum	15		FACU	UPL species x 5 =
3. Samplocus tinctoria	30		FAC	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
	75	= Total Cov	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 37. 5	5 20% of	total cover	: 15_	
Herb Stratum (Plot size: 3054 X 3054)	~	-10		¹ Indicators of hydric soil and wetland hydrology must
1. Avundinavia gigontea	2	-AH	FACW	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				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.
12				
		= Total Cover		
50% of total cover:	20% 01	total cover		
1. Smilax Vatandifolia	2	AU	FAC	
		14.1		
2				
3		-	-	
5.				H. L. Starter
J	2	= Total Co	/er	Hydrophytic Vegetation
50% of total cover:		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations belo		10101 00701		
Transaction of the property of	/-			
	THE ROLL IN			

Profile Description: (Describe to the dep			licator or	onfirm	the absence of inc	dicators.)	
Depth Matrix (inches) Color (moist) %	Color (moist)	ox Features %	Type	oc²	Texture	Remarks	
0-3 2,54,5/1 100	Odd (IIIolot)				FSL		17
3-5 2.51,4/3 100					FSL		
					FSL		
a a a a a a a a a a a a a a a a a a a							
14-20 2.545/4 100					SCL		
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, M	S=Masked S	and Grain	5		ore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all	LRRs, unless other	rwise noted.	.)			roblematic Hydric Sc	oils":
Histosol (A1)		elow Surface					
Histic Epipedon (A2)	Thin Dark S					A10) (LRR S) rtic (F18) (outside ML	PA 1504 B)
Black Histic (A3)		ky Mineral (F1				oodplain Soils (F19) (I	
Hydrogen Sulfide (A4)	Loamy Gley	ed Matrix (F2	.)			Bright Loamy Soils (F2	
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)		Surface (F6)			(MLRA 15		,
5 cm Mucky Mineral (A7) (LRR P, T, U		ark Surface (F				Material (TF2)	
Muck Presence (A8) (LRR U)		essions (F8)			Very Shallow	w Dark Surface (TF12))
1 cm Muck (A9) (LRR P, T)	Marl (F10) (Other (Expla	in in Remarks)	
Depleted Below Dark Surface (A11)		chric (F11) (M			2		
Thick Dark Surface (A12)		nese Masses				of hydrophytic vegeta	
Coast Prairie Redox (A16) (MLRA 150		ace (F13) (LF				nydrology must be pre- sturbed or problematio	
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochrid	(F1/) (NILK/	A 131) I DA 450A	450B)		starbed or problematic	••
Sandy Gleyed Matrix (S4)	Reduced Ve	loodplain Soil:	c (F19) (M	I RA 14	94)		
Sandy Redox (S5) Stripped Matrix (S6)	Anomalous	Bright Leamy	Soils (F20) (MLR	A 149A, 153C, 153	D)	
Dark Surface (S7) (LRR P, S, T, U)				, ,			
Restrictive Layer (if observed):							
Туре:							1/
Depth (inches):					Hydric Soil Pres	ent? Yes	No
Remarks:							
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
					VICE IN THE RESERVE		



Upland data point wsup023_u facing south.



Upland data point wsup023_u facing west.

Photo Sheet 2 of 2

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region ___ Sampling Date: 12/8/15 City/County: 54FOIK Project/Site: ACP State: VA Sampling Point: WSup 022f-w Applicant/Owner: Dominion Investigator(s): ESJ-M. SMITH, K. MUYPhrey Section, Township, Range: NA Landform (hillslope, terrace, etc.): Interstream flat Local relief (concave, convex, none): CONCAVE Subregion (LRR or MLRA): LRR T Lat: 36.71584 Long: -76.71257 Soil Map Unit Name: Rain & Fine 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 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. Yes 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) __ Drainage Patterns (B10) ___ Marl Deposits (B15) (LRR U) 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) Cravfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) __ Thin Muck Surface (C7) Geomorphic Position (D2) _ Algal Mat or Crust (B4) Shallow Aguitard (D3) __ Other (Explain in Remarks) 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): >201 Water Table Present? No ___ Depth (inches): 12 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+ X 308+)	The Property of the State of th	Species?		Number of Dominant Species
1. Pinus taeda	60	Y	FAC	That Are OBL, FACW, or FAC: (A)
2. Acer lubrum	20	4	FAC	
	- 6	-1	FAC	Total Number of Dominant
3. Liquidambar Styraci 8140			1110	Species Across All Strata: (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: (A/B)
6.				
7.	THE PROPERTY OF	A Paris of the State of the Paris		Prevalence Index worksheet:
THE CONTRACTOR OF A LITTLE AND ADDRESS OF A LITTLE AND				Total % Cover of: Multiply by:
8	45		AND THE RESERVE	OBL species x 1 =
112		= Total Cov		FACW species x 2 =
50% of total cover: 42.	20% of	total cover	: 1/	[] - [[[[[[[[[[[[[[[[[
Sapling/Shrub Stratum (Plot size: 3051X30 64)		11		FAC species x 3 =
1. Vaccinium corymbosum	40	7	FACW	FACU species x 4 =
2. Acer rubram	10	N	FAC	UPL species x 5 =
3. Liquidambar Styraciflua	5	N	FAC	Column Totals: (A) (B)
	-	-01	FAC	
4. Ilex oraca	_	~	Inc	Prevalence Index = B/A =
5			All Elizabeth	Hydrophytic Vegetation Indicators:
6.				1_Rapid Test for Hydrophytic Vegetation
7.	000000000000000000000000000000000000000			2 - Dominance Test is >50%
	28.675	31111111111		2 - Dominance Test is 250%
8.	=	A MARKET BALL TORS	Take to see	3 - Prevalence Index is ≤3.01
20	51	= Total Co	er II H	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>28</u> ,	20% of	total cover	: 110-1	
Hash Stratum (Plot size: 5) (1 X 5) (1)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinario gigantea		NA	FACW	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2.				Definitions of Four Vogetarion States
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.			Minimum 1	height.
6.				Sapling/Shrub - Woody plants, excluding vines, less
A SECURITY OF THE PROPERTY OF				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7. Carlos de la carlo de la carlos del carlos de la carlos del la carlos de la carlos del la carlos de la carlos de la carlos de la carlos del la carlos de la carlos de la carlos de la carlos de la carlos del la carlos de la carlos del la carlos de la carlos de la carlos de la carlos de la				
B.				Herb – All herbaceous (non-woody) plants, regardless
9.	2107F FUEL I			of size, and woody plants less than 3.28 ft tall.
10	A. K. J. Halle			Woody vine - All woody vines greater than 3.28 ft in
11,				height.
COLORS SERVICE DE LA COLOR DE MARCO AL PREMIONIO PARA DE LA COLOR DE MESON DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA C				
12	100	= Total Co		and the second of the second o
0.0			- parting	
50% of total cover:	20% of	total cover	.01 6	
Woody Vine Stratum (Plot size: 304 x 304+)			TA -	
1. Smilax volundifulia	10	1	FAC	
	W.C. Alichi	-/		
		THE STATE OF THE STATE OF		
3.	100000000000000000000000000000000000000	EG VET TO	Fall Call To	
4.				
5.				Hydrophytic
	10	= Total Co	ver .	Vegetation
50% of total cover: 5	STREET AND PROPERTY AND ADDRESS OF THE	total cover	2	Present? Yes No
and the state of t	and Application	total cover		
Remarks: (If observed, list morphological adaptations belo	W).			
. (1925) (1.45 전 1.45 전 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				

Depth							the absence of inc	
(inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	Type'	Loc ²	Texture	Remarks
0-4	101/R3/1	80	104R6/2	20			SL	
4-12	2.545/2	95	104R5/8	5	C	PL	SCL.	
12-20	25/5/2	40	104RS/8	20	C	~	5/1-	
10 00	2134012	00	1091310	-		1000000		
								The Company of the Co
	and control of the Control							
	oncentration, D=Depl					ins.		ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	rwise not	ed.)			roblematic Hydric Solls ³ :
Histosol			Polyvalue Be					
	oipedon (A2)		Thin Dark Su					A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
IN PROPERTY AND INCOME.	stic (A3) en Sulfide (A4)		Loamy Muck			0,		podplain Soils (F19) (LRR P, S, T)
1000 C 1000 C 1000 C 100 C	d Layers (A5)		Depleted Ma		-/			Bright Loamy Soils (F20)
AND THE RESIDENCE OF THE PARTY	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	6)		(MLRA 15	###### (1981)[[198] "- [198] - [198] - [198] - [198] - [198] - [198] - [198] - [198] - [198] - [198] - [198] -
	icky Mineral (A7) (LR							Material (TF2)
	esence (A8) (LRR U)	Redox Depre		8)			v Dark Surface (TF12) in in Remarks)
The state of the s	ick (A9) (LRR P, T) d Below Dark Surface	(Δ11)	Marl (F10) (L Depleted Oc		(MLRA 1	11)	Other (Expla	iii iii Keiliaksy
The state of the s	ark Surface (A12)	, (711)	Iron-Mangan				T) ³ Indicators	of hydrophytic vegetation and
AND CONTRACTOR STANDS	rairie Redox (A16) (N	ILRA 150					wetland h	ydrology must be present,
100 SE LENGTH TO A SERVER	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric				unless di	sturbed or problematic.
CONTRACTOR OF STREET	Sleyed Matrix (S4)		Reduced Ve				241	
Colored States Control of the Control	Redox (S5) I Matrix (S6)		Piedmont Flo				A 149A, 153C, 153I	0)
	rface (S7) (LRR P, S	. T. U)	Alomaious L	origin Lou	11, 00115 (1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Layer (if observed):							
Type:								
Depth (in	chac):						Hydric Soll Pres	ent? Yes No
	cites).							
Remarks:	ciles).		THE PART OF PERSON			THE		
Remarks:	ches).		11 to 10 day 12 day (1881)					
Remarks:	cites).							
Remarks:	ules).							
Remarks:	ules).							
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								
Remarks:								



Wetland data point wsup022f_w facing east.



Wetland data point wsup022f_w facing north.

Photo Sheet 2 of 3

Project/Site: ACP	City/County: SUFFO	11	Sampling Date: 12/3/15
Applicant/Owner: Dominion	Suj/Galliy	State: VA	Sampling Point: Wsup 0225_1
Applicant/Owner: Dot/11/10/1			Cumping Form.
Investigator(s): FSI-M, SMith, K, Murphyey	Section, Township, Range:	SIBY	4.2
Landform (hillslope, terrace, etc.): Interstream flat	Local relief (concave, conve	x, none):	Slope (%): 0-2
Subregion (LRR or MLRA): LRRT Lat: 36.	/1850 Long:	-16.10197	Datum: WG > D
Soil Map Unit Name: Rains Fine sondy 1000	7	NWI classifica	ation: <u>P55</u>
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significant		nal Circumstances" pr	
Are Vegetation, Soil, or Hydrology naturally p		l, explain any answer	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locat	tions, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	is the Sampled Area		No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply	,	Surface Soil 0	PORT ALEXANDER ON MARKET THE STATE OF THE ST
			etated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B High-Water Table (A2) Marl Deposits (B1	[8] - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	Drainage Pat	: : : : : : : : : : : : : : : : : : :
Saturation (A3) Hydrogen Sulfide		Moss Trim Lin	[14] [12] [14] [14] [14] [14] [14] [14] [15] [15] [15] [15] [15] [15] [15] [15
	heres along Living Roots (C3)		Vater Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Burn	ows (C8)
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ction in Tilled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	Geomorphic I	
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aquit	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	<u> Kalabadalla, Tangga K. Magalaga ang kalabaga kang kalabaga kang kang kang kang kang kang kang k</u>
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:	. MA		
Surface Water Present? YesNo Depth (inche	s): ////		
Water Table Present? Yes No Depth (inche	s): IT	d III. daalaan Beenea	t? Yes No
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): <u>Sav Fall</u> Wetian	d Hydrology Presen	tr resNo
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if a	vailable:	THE PERSON NAMED AND ADDRESS.
Remarks:	01 - 01:10	Mriss pr	KSPA+
Portions have standing water,	Spragnam	11033	30.77
The state of the s			The final product of the second
A MARK			

Sampling Point: Wsup0225-W

2.5 102 15	Absolute	Dominant	Indicator	Dominance Test worksheet:	Mary September	
Tree Stratum (Plot size: 308+1X 3 28+1) 1. P. DUS +aeda	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	4	_ (A)
2. 3.				Total Number of Dominant Species Across All Strata:	4	_ (B)
			10000	Percent of Dominant Species That Are OBL, FACW, or FAC:	100	_ (A/B)
				Prevalence Index worksheet:		
				Total % Cover of:	Multiply by:	
	10)			OBL species x		
		= Total Co		FACW species x:		
50% of total cover:	20% of	total cover	-	FAC species x:		
apling/Shrub Stratum (Plot size: 308+X305+)	20	~	-00	FACU species x		
MINUS TORES	30	/	FAC	UPL species x		
Liquidambar Styrac Flua	5	N	FAC			
Magnolia virginiana	_ 5	N	FACW	Column Totals: (A	,	(B)
Flex opaca		N	FAC	Prevalence Index = B/A =	Control of the State of the Sta	
				Hydrophytic Vegetation Indica		
				1 - Rapid Test for Hydrophyt	ic Vegetation	
				2 - Dominance Test is >50%	1	
				3 - Prevalence Index is ≤3.0	1	
	45	= Total Co	/er	Problematic Hydrophytic Ve	getation ¹ (Exp	lain)
50% of total cover: 22.	5 20% of	total cover	: 9			
Lerb Stratum (Plot size: 3084) 3084 And Oppogen gerardii	1/7	7	FAC	¹ Indicators of hydric soil and wetl be present, unless disturbed or p	land hydrolog problematic.	y must
Armodinaria gigantea			FACW	Definitions of Four Vegetation	A LABORATOR STATE OF A STATE OF A STATE OF	
Leersia oryzoides	50		OBL			
The same of the contract of th				Tree - Woody plants, excluding		
			a e composido de la composidad de la com	more in diameter at breast heigh height.	t (DBH), rega	raless o
				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	excluding vin 3.28 ft (1 m) t	es, less all.
AND SECTION OF SECTION SECTIONS				Herb – All herbaceous (non-wood of size, and woody plants less th		
0				Woody vine - All woody vines g	reater than 3	28 ft in
1.				height.	reater than 3.	20 11 111
2.						
	130	= Total Co	/er	<u> </u>		
50% of total cover: 65	20% of	total cover	26			
Voody Vine Stratum (Plot size: 3041 x 3064)						
none Present						
	Contract to the					
		1 2 1 1 1 1 1 1				
			A DE MOTO TATE			
			ESTA SES	Hydrophytic		
	Control of the Bullion of the	= Total Co		Vegetation Present? Yes	No	
50% of total cover:	20% of	total cover			le Mayar	
Remarks: (If observed, list morphological adaptations be	low).					

	cription: (Describe	to the dep				or confir	m the absence o	f Indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type	Loc²	Texture	Remarks	
0-8	2.542.5/1	100					MSL	mucky	
0-14	2565/1	70	2.542/1	30			SCL		
16- 20	1010/1	00	1360 < 110	10	-	~^	SCL		
17-40	109K3/1	70	1098216	10		-141	300		W. Long
							-		
¹Type: C=C	concentration, D=Dep	letion RM	=Reduced Matrix M	S=Masked	Sand Gr	ains.	² Location: F	L=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise not	ed.)		Indicators fo	or Problematic Hydric Sc	olls ³ :
Histoso			Polyvalue B			RR S, T,	U) 1 cm Mu	ick (A9) (LRR O)	
and the second section of the section of the second section of the section of the second section of the section of th	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)		ick (A10) (LRR S)	
The state of the s	istic (A3)		Loamy Muc			(0)	TO THE RESERVE OF THE PARTY OF	d Vertic (F18) (outside MI	
	en Sulfide (A4)		Loamy Gley		(F2)			nt Floodplain Soils (F19) (I ous Bright Loamy Soils (F2	
Challength of the second	d Layers (A5)	TIN	Depleted Mail Redox Dark		-6)			A 153B)	.0)
	: Bodies (A6) (LRR P ucky Mineral (A7) (Li							ent Material (TF2)	
The state of the s	resence (A8) (LRR U		Redox Depr				Very Sh	allow Dark Surface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (E	Explain in Remarks)	
The state of the s	d Below Dark Surfac	e (A11)	Depleted Or				a		tion and
Comment of the Commen	ark Surface (A12)		Iron-Mangai					tors of hydrophytic vegeta and hydrology must be pre	
100 to 10	Prairie Redox (A16) (I					, u)		ss disturbed or problemation	
The state of the s	Mucky Mineral (S1) (I Gleyed Matrix (S4)	LKK 0, 3)	Delta Ochrid			OA. 150B			
100 Heats 43000, 1300	Redox (S5)		Piedmont F						
122 - 122 - 122 - 122 - 123 -	d Matrix (S6)						RA 149A, 153C,	153D)	
	urface (S7) (LRR P,								
Restrictive	Layer (If observed)								
Type:									
Depth (in	iches):						Hydric Soll F	Present? Yes	No
Remarks:	erna del proposition del l'								
					g weed at				



Wetland data point wsup022s_w facing south.



Wetland data point wsup022s_w facing north.

Photo Sheet 1 of 3

Project/Site: ACP	City/0	County: SUFFUK		Sampling Date: 12/6/15
Applicant/Owner: Dominion			State: VA	Sampling Point: Wsup 022-
Investigator(s): ESI-MISMITH, K.M	GUPLUPU Sant	on, Township, Range:	Carlo Car	
Landform (hillslope, terrace, etc.): Twierstv	eam flat	relief (concave, convex,		2× Slope (%): 0-2
Landform (hillslope, terrace, etc.):	26-7167	relief (concave, convex,	7(a 7/273	Datum: W 6 5 8
Subregion (LRR or MLRA): LRRT	Lat: 50, /15/	Long:		
Soil Map Unit Name: Rain 5 Fine	sondy loam		NWI classific	cation:
Are climatic / hydrologic conditions on the site ty	pical for this time of year?		(If no, explain in F	
Are Vegetation, Soil, or Hydrolog	significantly distu	rbed? Are "Norma	Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrolog			explain any answe	
SUMMARY OF FINDINGS - Attach s				
Hydrophytic Vegetation Present? Yes	No_			
The first and become a series and the series of the first		Is the Sampled Area		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	AND STREET STREET, STREET STREET, STREET STREET, STREE	within a Wetland?	Yes	No
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Administrative Control of the Contro	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required	check all that apply)		Surface Soil	A STATE OF THE PROPERTY OF THE
CONTRACTOR SUPPLEMENTAL SUPPLEM	Aquatic Fauna (B13)			getated Concave Surface (B8)
\$25.76.26.16.26.16.16.16.16.16.16.16.16.16.16.16.16.16	Marl Deposits (B15) (LR	R U)	The second secon	atterns (B10)
	Hydrogen Sulfide Odor (Moss Trim L	선생님은 사람이 아무실하다는 수요 하는 아니라 그는 그 때문에는 하는 것은 하는데 하다 하는데 하다 없다.
Water Marks (B1)	Oxidized Rhizospheres			Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation V	risible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ Thin Muck Surface (C7)			: Position (D2)
Iron Deposits (B5)	_ Other (Explain in Remar	ks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutra	
Water-Stained Leaves (B9)			Sphagnum i	moss (D8) (LRR T, U)
Field Observations:	V	/A		
Surface Water Present? Yes No	Depth (inches):	20		
Water Table Present? YesNo			Hydrology Prese	nt? Yes No
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Vvetiand	nyarology Frese	ntr resno
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pro	evious inspections), if av	ailable:	
Remarks:				

Sampling Point: Wsup 022 -u

7 1:26	Absolute	Dominant	Indicator	Dominance Test worksheet:	Hilling
Tree Stratum (Plot size: 30ff X 30ff) 1. Pings talda	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2. ACEY rubrum	15	N	FAC		
3. Liquidambar Styracifina	5	~	FAC	Total Number of Dominant Species Across All Strata:	(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6.	A CONTRACTOR OF THE PARTY OF TH			Prevalence Index worksheet:	
7.				Total % Cover of: Multiply by:	
8.		-		OBL species x1 =	
		= Total Co		FACW species x 2 =	
50% of total cover: 40	20% of	total cover	: 16	FAC species x3 =	
Sapling/Shrub Stratum (Plot size: 3064 X 3054)			-10	FACU species x 4 =	
1. ITEX OPACA	20	7	FAC	UPL species x 5 =	
2. ACEV VUDIUM	20	4	FAC		(D)
3. Liquidanbar Styraciflua	15	4	FAC	Column Totals: (A)	(D)
4. VACCINIUM COYUMBOSUM	5	~	FACW	Prevalence Index = B/A =	
5. Symplocos tinctoria	2	N	FAC	Hydrophytic Vegetation Indicators:	10 (DA
6.					
7.				2 - Dominance Test is >50%	
8.			RICH A	3 - Prevalence Index is ≤3.0¹	
	62	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)	,
50% of total cover: 3				Problematic Hydrophytic Vegetation (Explain	,
Herb Stratum (Plot size: 304+ X 304+)	_ 20 /0 0	total cover			
Herb Stratum (Plot size: 2047 A 2047)	10	V	FACIAL	Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.	ıst
1. Axundinaria gigantea				Definitions of Four Vegetation Strata:	
2.				Definitions of Four Vegetation Strata.	
3.				Tree - Woody plants, excluding vines, 3 in. (7.6 cr	
4.		-		more in diameter at breast height (DBH), regardles height.	ss of
5.				Height.	
6.				Sapling/Shrub - Woody plants, excluding vines, I	ess
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.		1000		Herb - All herbaceous (non-woody) plants, regard	lless
9.				of size, and woody plants less than 3.28 ft tall.	
10.				Woody vine - All woody vines greater than 3.28 f	t in
11.				height.	
12.	7 P. S. P. S.		ART THE		
	10	= Total Co	/er	grand and a second a second and	
50% of total cover: 5	CANCELSON DEPONDED	total cover	1		
Woody Vine Stratum (Plot size: 30F+ X 30F+)		total cover			
1. NOTE PRESENT					
2		A STATE OF THE STATE OF			
3.	012-02-250-259 413-250-250-259	104	ELECTRICAL SALES		
4					
5.	1001		24 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Hydrophytic	
	0	= Total Co	/er	Vegetation Present? Yes No	
50% of total cover:	20% or	f total cover	:	Present? Tes No	
Remarks: (If observed, list morphological adaptations belo	w).				

Depth	cription: (Describe			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc2		Remarks
0-4	104R2/1	100					FSL	
4-20	2:545/4	98	104R5/6	2	(M	SCL	
	8.00					To all the		
		-						
	The second secon			-				
						181201		
Type: C=C	oncentration, D=Dep	letion RM=	Reduced Matrix M	S=Masker	Sand Gra	ains.	² Location: PL=F	ore Lining, M=Matrix.
lydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)			roblematic Hydric Solis ³ :
Histosol			Polyvalue Bo			RR S, T, L	J) 1 cm Muck (A9) (LRR O)
	oipedon (A2)		Thin Dark S				2 cm Muck (A10) (LRR S)
Black H	istic (A3)		Loamy Much			0)		rtic (F18) (outside MLRA 150A,B
Shiple Committee or	en Sulfide (A4)		Loamy Gley		F2)			oodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	- ···	Depleted Ma		·C\		Anomalous I	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark Depleted Da	Single belongs to up a finite	THE PARTY OF THE P			Material (TF2)
	icky Mineral (A7) (LF resence (A8) (LRR U		Depleted Da					v Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (The Life Control of the Control of t	in in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangar					of hydrophytic vegetation and
	rairie Redox (A16) (N) Umbric Surf			, U)		nydrology must be present, sturbed or problematic.
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochrid			DA 150B		sturbed or problematic.
C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gleyed Matrix (S4) Redox (S5)		Piedmont FI					
THE PROPERTY OF SHAPE	Matrix (S6)						RA 149A, 153C, 1531	0)
	rface (S7) (LRR P, S	s, T, U)						
	Layer (if observed):			2.1527551				
Type:								
Depth (in	ches):						Hydric Soll Pres	ent? Yes No
Remarks:				Property Section				



Upland data point wsup022_u facing north.



Upland data point wsup022_u facing southwest.

Photo Sheet 3 of 3

ทุก		(County: Suffo 1K	Campli	an Data: 317.9111a
Project/Site: A CP				
Applicant/Owner: Dominion			State: VA Samplin	ng Point: WSUBUS 1 T-C
Investigator(s): S. Bryan, L	. Roper se	ction, Township, Range:	none	5 7
Landform (hillslope, terrace, etc.):	atLoc	cal relief (concave, convex,	none): None	Slope (%): 0 - 4
Subregion (LRR or MLRA): LRR	T Lat: 36.72	.556 Long:	76,70645	Datum: WGS8
Soil Map Unit Name: Rains	fine sandy lo	0-m	NWI classification:	PFO
Are climatic / hydrologic conditions on the			ii no, explain iii Remarks.	V 1
Are Vegetation, Soil, or H			Circumstances" present?	
Are Vegetation, Soil, or H	ydrology naturally proble	matic? (If needed, e	xplain any answers in Ren	marks.)
SUMMARY OF FINDINGS - At	ach site map showing sa	ampling point location	ns, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No	Is the Sampled Area within a Wetland?	Yes No	D
NewAM: Headwater F	ovest			
HYDROLOGY			1	
Wetland Hydrology Indicators:			Secondary Indicators (mi	nimum of two required)
Primary Indicators (minimum of one is r	equired; check all that apply)		Surface Soil Cracks	
Surface Water (A1)	Aquatic Fauna (B13)			Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (L		Drainage Patterns (B	
Saturation (A3)	Hydrogen Sulfide Odo		Moss Trim Lines (B1	
Water Marks (B1)	Oxidized Rhizosphere		Dry-Season Water T	
Sediment Deposits (B2)	Presence of Reduced		Crayfish Burrows (C8	
Drift Deposits (B3)	Recent Iron Reduction		Saturation Visible on	
Algal Mat or Crust (B4)	Thin Muck Surface (C)		Geomorphic Position	
Iron Deposits (B5)	Other (Explain in Rem	arks)	Shallow Aquitard (D3 FAC-Neutral Test (D	
Inundation Visible on Aerial Imager	y (B/)		Sphagnum moss (D8	TANK TO THE PROPERTY OF THE PARTY OF THE PAR
✓ Water-Stained Leaves (B9) Field Observations:	100		Opriagram moss (De	27 (2.11117)
	No V Depth (inches): _	NA		
Surface Water Present? Yes	No Depth (inches): _	10		
	No Depth (inches): _	3 Wetland H	lydrology Present? Ye	s / No
(includes capillary fringe)			Salar de la companya del companya de la companya del companya de la companya de l	
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, p	previous inspections), if ava	ilable:	
Remarks:				
Tremand.				
No. of the last of				

2-61 3-61	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30ft x 30ft) 1. Liquidum bar styraciflua	% Cover	Species?	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)		
2. Pinus taeda	10		FAC	Total Number of Dominant Species Across All Strata: 7 (B)		
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 86/. (A/B)		
6.						
7.				Prevalence Index worksheet:		
8.				Total % Cover of: Multiply by:		
	30	= Total Co		OBL species x 1 =		
50% of total cover: 15	20% of total cover: 6			FACW species x 2 =		
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FAC species x 3 =		
1. Ilex opaca	10	Y	FAC	FACU species x 4 =		
2.				UPL species x 5 =		
3.				Column Totals: (A) (B)		
4				Prevalence Index = B/A =		
				The state of the s		
5				Hydrophytic Vegetation Indicators:		
6			-	1 - Rapid Test for Hydrophytic Vegetation		
7		-	-	2 - Dominance Test is >50%		
8	10	= Total Co		3 - Prevalence Index is ≤3.0¹		
5	-10	= Total Co	ver 7	Problematic Hydrophytic Vegetation¹ (Explain)		
50% of total cover: 5	20% of	total cover				
Herb Stratum (Plot size: 30ft x 30ft)	10		100	¹ Indicators of hydric soil and wetland hydrology must		
1. Pinus taeda	10	7	FAC	be present, unless disturbed or problematic.		
2. Rubus argutus	10	7_	THE	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.		
В.				Herb – All herbaceous (non-woody) plants, regardless		
9.				of size, and woody plants less than 3.28 ft tall.		
	2-0-0					
10.		-		Woody vine – All woody vines greater than 3.28 ft in		
11.	-			height.		
12.	70	= Total Co	_			
50% of total cover: 10						
	20% 01	f total cover	-			
Woody Vine Stratum (Plot size: 30ff x 30ff)	1 900	./	FACO			
1. Lonicera japonica	15	- Y	FACU			
2. Smilax cotundifolia	10		FAL			
3.						
4.						
5.				Hydrophytic		
	25	= Total Co	ver	Vegetation		
	Present? Yes No					
50% of total cover: 12.						
50% of total cover: 12	2070 0	175110000000000000000000000000000000000				

Sampling Point:

	cription: (Describe	to the dept				or confirm	n the absence of	indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc²	Texture	Remarks	
0-13	2.5 Y 2.5/1	100	Ocioi (iliolat)	- 10			SCL	6	
	10111		10125/6	100	0.	W	5CL		
13-20	1044	_ 85	10 K - 10	15	0	17	- JUL _		
				-					
				1					
ITuna: C-C	oncentration, D=De	plation PM-	Peduced Matrix M	S=Masker	d Sand Gr	aine	21 ocation: Pl	_=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless other	rwise not	ed.)	dirio.		r Problematic Hydric Soils ³ :	
Histosol			Polyvalue B			RR S, T, L	J) 1 cm Mud	ck (A9) (LRR O)	
1 (The Control of th	pipedon (A2)		Thin Dark S				2 cm Muc	ck (A10) (LRR S)	
Black H	istic (A3)		Loamy Mucl			(0)	 Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) 		
	en Sulfide (A4)		Loamy Gley		(F2)				
	d Layers (A5)		Depleted Ma		-6)				
	Bodies (A6) (LRR I ucky Mineral (A7) (L		The State of the S	Street Street Street Street Street Street	G043-17 C		Red Parent Material (TF2)		
	resence (A8) (LRR		Redox Depr		Maria Caraca		Very Shallow Dark Surface (TF12)		
10 X 10 - 10 M 17 X 20 II	uck (A9) (LRR P, T)	10.74	Marl (F10) (Other (Ex	plain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc				- 3 ₁₋₁₁₋₁	5 built-sebutio vegetation and	
	ark Surface (A12)	DA 4504	Iron-Mangar					ors of hydrophytic vegetation and nd hydrology must be present,	
The state of the s	rairie Redox (A16) Mucky Mineral (S1)		Umbric Surf Delta Ochric			, 0,		disturbed or problematic.	
Company of the Compan	Sleyed Matrix (S4)	(LINI 0, 0)	Reduced Ve			OA, 150B)		Company of the control of the contro	
The second of th	Redox (S5)		Piedmont FI	oodplain S	oils (F19)	(MLRA 14	19A)		
Control of the Control of the Control	d Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLR	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,				as here		1		
	Layer (if observed):							
Type:		AUGUSTES AND					Hydric Soil Pr	resent? Yes V No	
Depth (in	ches):		<u> </u>				nyuric son Fi	esenti lesno	
Remarks:									
W									
A									



Wetland data point wsuo039f_w facing west.

Project/Site: ACP C	ity/County: Suffolk Sampling Date: 3/29/16
	State: VA Sampling Point: W5400 396-4
Applicant/Owner: Dominion	
Investigator(s): 5. Bryan, L. Roper s	Section, Township, Range: NONE
Landform (hillslope, terrace, etc.): + 10+	ocal relief (concave, convex, none): None Slope (%): 0-1
Subregion (LRR or MLRA): LRRT Lat: 36.7	12557 Long: -76.70671 Datum: W6589
Soil Map Unit Name: Rains fine Sandy loan	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly d	
Are Vegetation, Soil, or Hydrology naturally prob	
SUMMARY OF FINDINGS – Attach site map showing s	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	
Remarks:	
Agricultural field edge,	electrical ROW
ing.	0.001.
HYPROLOGY	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide Od	
Sediment Deposits (B2) Presence of Reduce	
2 man	
	# 1411 TO 1811
Iron Deposits (B5) Other (Explain in Rel 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
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	and the state of t
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	
800	
*	All I

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

Sampling Point: ____

- (1 2-(1			nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ff x 30ff) 1. NONE			? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata:3(B)
4 5			-	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet:
1,				Total % Cover of: Multiply by:
,				OBL species x 1 =
	0	= Total C	over	
50% of total cover:	20% of	total cove	er:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f+ x30f+)				FAC species x 3 =
none				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
·		-		2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.01
	.0	= Total C	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
lerb Stratum (Plot size: 30f4 x 30f4)		100		¹ Indicators of hydric soil and wetland hydrology must
Juneus effusus	60	Y	OBL	be present, unless disturbed or problematic.
Narcissus sp.	10	N	UNK	Definitions of Four Vegetation Strata:
Chasmanthium laxum	30	y	FACW	
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				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
).	-	1100	-	of size, and woody plants less than 3.28 ft tall.
0,		-		Woody vine - All woody vines greater than 3.28 ft in
1		-		height.
2.				
	-	= Total C		The state of the s
50% of total cover: 5	D 20% of	total cov	er: 20	
Voody Vine Stratum (Plot size: 30f4 x 30f4)				
. Lonicera japonica	20	Y	FACU	
	7/7	-		
		-	-	And a constant
,	20		-	Hydrophytic
	The second second second second	= Total C	11	Vegetation Present? Yes No
50% of total cover: 1	20% 0	total cov	er: <u>4</u>	The second secon
Remarks: (If observed, list morphological adaptations be	elow).			
Activities. (il observed, list morphologisch adoptations and				

	inpuon. (Describe	to the dept	h needed to docu	ment the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			ox Features		12	Tautura	Remarks
(inches)	Color (moist)	- %	Color (moist)	20	Type'	Loc² M	SCL _	Nemarka
0-10	10 1 1 31	80	10/R 6/8				300	
10-20	DIK 3/1	50	101-11	30	D	M	50	
			104 R 5/8	20	C	M		
					-			
	-				-			
					-			
							21 anations Di	_=Pore Lining, M=Matrix.
'Type: C=Co	oncentration, D=Dep Indicators: (Applic	oletion, RM=	Reduced Matrix, M	S=Masked	sand Gra	ains.		r Problematic Hydric Soils ³ :
		able to all L				DDETI		ck (A9) (LRR O)
Histosol			Polyvalue B Thin Dark S					ck (A10) (LRR S)
Black His	oipedon (A2)		Loamy Mucl					Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley			-		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma				Anomalo	us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	✓ Redox Dark	Surface (F	6)		(MLRA	
	icky Mineral (A7) (LI		Depleted Da					ent Material (TF2)
The second secon	esence (A8) (LRR L	١)	Redox Depr		8)			llow Dark Surface (TF12)
The second secon	ick (A9) (LRR P, T)	- 10445	Marl (F10) (MIDA	:4)	_ Other (Ex	xplain in Remarks)
The state of the s	d Below Dark Surface	ce (A11)	Depleted Oc Iron-Mangar				T) ³ Indicate	ors of hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (MI PA 150A	50-50-50-50-50-50-50-50-50-50-50-50-50-5					nd hydrology must be present,
All the first the state of the	lucky Mineral (S1) (Delta Ochrid			, ,		disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Ve			0A, 150B)		and the second s
	ledox (S5)		Piedmont FI					
The state of the s			A		- "			
Stripped			Anomalous	Bright Loar	my Soils (F20) (MLR	A 149A, 153C, 1	53D)
Dark Su	rface (S7) (LRR P,		Anomalous	Bright Loar	my Soils (F20) (MLR	A 149A, 153C, 1	53D)
Dark Su			Anomalous	Bright Loar	my Soils (F20) (MLR	A 149A, 153C, 1	53D)
Dark Sur Restrictive I Type:	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (F20) (MLR		/
Dark Sur Restrictive I Type:	rface (S7) (LRR P,		Anomalous	Bright Loar	my Soils (F20) (MLR		resent? Yes No
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (F20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		/
Dark Sur Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed)		Anomalous	Bright Loar	my Soils (=20) (MLR		



Wetland data point wsuo039e_w facing north.

Project/Site: A CP	City/County: Suffolk Sampling Date: 3/29/16
Applicant/Owner: Dominion	State: V A Sampling Point: wsus039_4
Investigator(s): 5. Bryan, L. Roper	
Investigator(s): 5. Bryan Li Roper	Local relief (concave, convex, none): None Slope (%): 0 - 2
Landform (hillslope, terrace, etc.): flat	
Subregion (LRR or MLRA): LRPT Lat: 31	0.72565 Long: -76.70671 Datum: W6589
Soil Map Unit Name: Rains fine soundy	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significan	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	
SUMMARY OF FINDINGS - Attach site map show	ing 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
Agricultural field Assume hydrophytic vegetation (Unknown veg. and prob	n criterion may be met lematic prevalence index)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	ly) 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 Sulfice	le Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizo:	spheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Re	
Control of the Contro	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surf	
Iron Deposits (B5) Other (Explain i	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	nes): NA
Surface Water Present? Yes NoDepth (incl	100/1
Water Table Present? Yes No Depth (incl	ies):
Saturation Present? Yes No Depth (includes capillary fringe)	nes): >20 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pl	notos, previous inspections), if available:
Remarks:	
*	
V	

Sapling/Shrub Stratum (Plot size: 30ff x 30ff)

Herb Stratum (Plot size: 30ff x 30ff)
1. 50/10ago 5p. 10

3. Cirsium Sp 10

4. Festuca rubra 10

11.

Woody Vine Stratum (Plot size: 30ft x 30ft) 1. none

2. Allium canadense 25 Y FALU

5. Poa autumnalis 50 Y FAC

1. none

2.

1. none

		101	0039_
	Sampli	ng Point:	100012
Dominance Tes	t worksheet:	ZA, Alex	
Number of Domi That Are OBL, F.	nant Species	1	_ (A)
Total Number of Species Across		2	_ (B)
Percent of Domin	nant Species ACW, or FAC:	50	_ (A/B)
Prevalence Inde	x worksheet:		
Total % Cov	er of:	Multiply by:	_
OBL species	0/20 x1	= 0/2	20
FACW species	x 2	=	
AC species	50 x3	= 150	>
ACU species	55/35 x4	= 220/	140
JPL species	x 5	1	
Column Totals:	105 (A)		310(B)
Jointill Totals.		- 1	0
Prevalence	Index = B/A =	3.5/2	.4
	getation Indicat		
	st for Hydrophyti		
	ce Test is >50%		
	ce Index is ≤3.01		
	Hydrophytic Veg	etation (Evr	nlain)
Froblematic	Trydrophlytic veg	Ctation (Exp	Jianiy
Indicators of hy	dric soil and wetts	and hydrolog	v must
Indicators of hyd be present, unle	dric soil and wetla ss disturbed or pr	and hydrolog oblematic.	y must
e present, unle	dric soil and wetle ss disturbed or pr our Vegetation !	oblematic.	y must
pe present, unlessed present, unlessed per firee — Woody programme in diameter neight.	ss disturbed or prour Vegetation Stants, excluding veral breast height	oblematic. Strata: rines, 3 in. (7 (DBH), rega	'.6 cm) or ordless of
pe present, unlessed present, unlessed per	ss disturbed or prour Vegetation stants, excluding v	oblematic. Strata: ines, 3 in. (7 (DBH), regar	7.6 cm) or ordless of
pe present, unlessed present, unlessed per	ss disturbed or prour Vegetation Stants, excluding we at breast height	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding vir. 3.28 ft (1 m)	7.6 cm) or ordless of nes, less tall.
Definitions of F Free – Woody pi more in diameter neight. Sapling/Shrub - han 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding or at breast height - Woody plants, ond greater than Stants	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
Definitions of F Tree – Woody pi more in diameter neight. Sapling/Shrub - han 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
Definitions of F Free – Woody pi more in diameter neight. Sapling/Shrub - han 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
Definitions of F Free – Woody pi more in diameter neight. Sapling/Shrub - han 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
Definitions of F Free – Woody pi more in diameter neight. Sapling/Shrub - han 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
Definitions of F Tree – Woody pi more in diameter height. Sapling/Shrub- than 3 in. DBH a Herb – All herba of size, and woo	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
pe present, unlessed present, unlessed present, unlessed processed	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
be present, unleaded present, unleaded present, unleaded process of Forest Present Pre	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.
be present, unlessed present, unlessed per	ss disturbed or prour Vegetation Stants, excluding we at breast height - Woody plants, end greater than 3 ceous (non-woody plants less that	roblematic. Strata: rines, 3 in. (7 (DBH), regal excluding viring 2.28 ft (1 m) dy) plants, rean 3.28 ft tall	7.6 cm) or ordless of nes, less tall.

	50% of total cover:	20% of total cov	/er:		
Remarks: (If observed, list mo	rphological adaptations	below). Assume	hydrophytic	veg. criterion	may be med
tallow as	tield, v	moniedo	TO CO		
solidago sp.	and ci	rsium sp	. mowed	and unkn	after
solidago sp. unable to d Drevalence	etermine	presence	of hydroj	shytic veg.	001101

105 = Total Cover

= Total Cover

____ = Total Cover

N FACU/OBL

FACU 10 BL

50% of total cover: _____ 20% of total cover: ___

50% of total cover: _____ 20% of total cover: ____

50% of total cover: 52.5 20% of total cover: 21

- "	eintion: /Doccribo	to the dept	L d d &- d	mont tha i		or confirm	the sheepes	of indicators)
Profile Desc	inpuon. (Describe		h needed to docu	ment the i	naicator		the absence	of mulcators.)
Depth	Matrix			ox Features			National States	A-70-10
(inches)	Color (moist)	_ %	Color (moist)	%	Type ¹	_Loc2	Texture	Remarks
0-14	2.543/1	100					SC	
_			104R416	20	-	M	(1)	
14-20	2.5441	80	10 14 10			11	20	
				,		-		
				-	_			
100	and the same of the				111			
	1				-			
				o participant				
1Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	RRs, unless other	rwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol			Polyvalue B			RR S. T. U) 1 cm M	luck (A9) (LRR O)
	oipedon (A2)		Thin Dark S				The state of the s	luck (A10) (LRR S)
The second secon	stic (A3)		Loamy Mucl					ed Vertic (F18) (outside MLRA 150A,B)
a Townson Stranger Committee of the Comm	en Sulfide (A4)		Loamy Gley	The state of the s		-/		ont Floodplain Soils (F19) (LRR P, S, T)
			Depleted Ma		-/			lous Bright Loamy Soils (F20)
	d Layers (A5) Bodies (A6) (LRR P	T 115	Redox Dark		6)		to other particular and the second	RA 153B)
The second secon	icky Mineral (A7) (LI	Control of the control of the Control	Depleted Da				1 150,7 6 6 9 9 9 9	arent Material (TF2)
			Redox Depr					hallow Dark Surface (TF12)
to the same of the	esence (A8) (LRR L	")	Marl (F10) (Charles and Allert Annual Control of the Control of)			Explain in Remarks)
	ick (A9) (LRR P, T)	- (0.44)	Depleted Oc		MI DA 15	41	Outer (Explain in remains)
	d Below Dark Surface	e (ATT)	Iron-Mangar				T) 3Indic	ators of hydrophytic vegetation and
	ark Surface (A12)		THE RESERVE THE PARTY OF THE PA					and hydrology must be present,
	rairie Redox (A16) (I					U)		ess disturbed or problematic.
	lucky Mineral (S1) (LRR 0, 5)	Delta Ochric			A 450E)		ess disturbed of problematic.
	Sleyed Matrix (S4)		Reduced Ve					
The second secon	Redox (S5)		Piedmont FI					4530)
The second secon	Matrix (S6)		Anomalous	Bright Loar	ny Soils (F	-20) (MLR.	A 149A, 153C	, 1530)
Dark Su	rface (S7) (LRR P, S	S. T. U)						
	Layer (if observed)							
								,
Restrictive Type:	Layer (if observed)	•					Hydric Soil	Present? Yes Vo
Restrictive Type: Depth (in		•	_				Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•	=				Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•	=				Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•	=				Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•					Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•					Hydric Soil	Present? Yes No
Restrictive Type:	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Restrictive Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No No
Type: Depth (in	Layer (if observed)	•					Hydric Soil	Present? Yes No



Upland data point wsuo039_u facing north.



Upland data point wsuo039_u facing east.

Project/Site: ACP	Sity/County: 5uffolk Sampling Date: 12/16/15
Applicant/Owner: Dominido	State: VA Sampling Point: WSup 0275
Investigator(s): ESI-J. Harbour, K. Murphrey	Section Township Range: N.A.
investigation(s).	ocal relief (concave, convex, none): COOCAVE Slope (%): 6-2
Landform (hillstope, terrace, etc.):	3 467 Deturn W65
Subregion (LRR or MLRA): Lat: Lat: Lat: Lat: Lat: Lat:	3 467 Long: -76.70150 Datum: W65
Soil Map Unit Name: Eunola loany Fine Sond, O	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	olematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
Recent clearcut	
LIVERSI COV	
HYDROLOGY	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required, check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide O	res along Living Roots (C3) Dry-Season Water Table (C2)
	on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
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? Yes No Depth (inches)	
Water Table Present? Yes No Depth (inches)	6"
Saturation Present? Yes No Depth (inches)	SUV FACE Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	
Recent Clearcut, Habitat distarb	ance minimal vegetotion
RECENT CHOICE CONTINUES OF STATE	

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

200,42161	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 305+ K305+)	% Cover Species? Status	Number of Dominant Species 2
1. None Plesent		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: (A/B)
		That we obt, Facty, a Fac (AB)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8		OBL species x 1 =
	= Total Cover	FACW species x 2 =
50% of total cover:	20% of total cover:	
Sapling/Shrub Stratum (Plot size: 3084 X 3084)	- 1,	FAC species x 3 =
1. Acer rubrum	5 Y FAC	FACU species x 4 =
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
	S = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2 - 5	20% of total cover:	Problemate Hydrophytic regetation (Explain)
Herb Stratum (Plot size: 308+X308-4)	2070 01 10141 00701.	1
A CLAST CONCIDENTAL OF CONTRACTOR	30 X FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinavia gigontea	<u> </u>	
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
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.
12		
	30 = Total Cover	
50% of total cover: _ (S	20% of total cover:	
Woody Vine Stratum (Plot size: 3054X3054)		
1. None Present		
way Table 1		
2		
3		
4.		
5	1	Hydrophytic
	O = Total Cover	Vegetation
50% of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below	ow).	

Donth	Matrix		th needed to docum	Features				55-3-5-3 (ACC) (190-4-190) (190-4-190) (190-4-190) (190-4-190) (190-4-190) (190-4-190) (190-4-190) (190-4-190)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks
0-6	104R2/1	100					SL	Marcky mineral
6-10	104R3/2	05	104R3/4	<		\sim	SL	
		03	106R4/4	-		M	<1	
10-20	104R4/1	1)	109K 171		_		36	
			Reduced Matrix, MS			ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	wise note	ed.)			s for Problematic Hydric Solis ³ :
Histosol	(A1)		Polyvalue Bel					Muck (A9) (LRR O)
Histic E	oipedon (A2)		Thin Dark Sur					Muck (A10) (LRR S)
Black H	istic (A3)		Loamy Mucky			O)		ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleyer		F2)			nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matr					nalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark S	,				.RA 153B) Parent Material (TF2)
	icky Mineral (A7) (LR							Shallow Dark Surface (TF12)
	esence (A8) (LRR U)	— Redox Depres Marl (F10) (LI		3)			(Explain in Remarks)
	ick (A9) (LRR P, T) d Below Dark Surface	(011)	Depleted Och		MIRA 1	54)	011101	(Explain in Remarks)
	ark Surface (A12)	(A11)	Iron-Mangane		•		T) ³ Indi	icators of hydrophytic vegetation and
	rairie Redox (A16) (N	II RA 150						etland hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric (less disturbed or problematic.
	Gleyed Matrix (S4)	0, 0,	Reduced Vert	0.000		OA, 150B)		•
	Redox (S5)		Piedmont Floo				9A)	
1000000	Matrix (S6)		Anomalous B					C, 153D)
Dark Su	rface (S7) (LRR P, S	, T, U)						
Restrictive	Layer (If observed):							
Restrictive Type:	Layer (If observed):							
Туре:	Layer (If observed): ches):		_				Hydric So	II Present? Yes No
Type: Depth (in			_				Hydric So	II Present? Yes No
Туре:			_				Hydric So	II Present? Yes No
Type: Depth (in			_				Hydric So	II Present? Yes No No
Type: Depth (in				A Mye			Hydric So	II Present? Yes No No
Type: Depth (in				y Vye			Hydric So	II Present? Yes No No
Type: Depth (in				y vy	- 11 -2	- F	Hydric Sol	II Present? Yes No
Type: Depth (in				al layer			Hydric Sol	II Present? Yes No
Type: Depth (in				ж ин-			Hydric Sol	II Present? Yes No
Type: Depth (in				u vine			Hydric Sol	II Present? Yes No
Type: Depth (in				ж ман			Hydric Sol	II Present? Yes No
Type: Depth (in				x via-			Hydric Sol	II Present? Yes No
Type: Depth (in				н чин-			Hydric Sol	II Present? Yes No No
Type: Depth (in				N NON-			Hydric Sol	II Present? Yes No No
Type: Depth (in				al Milana			Hydric Sol	II Present? Yes No No
Type: Depth (in				ж			Hydric Soi	II Present? Yes No No
Type: Depth (in				y when			Hydric Soi	II Present? Yes No No
Type: Depth (in				у ш			Hydric Soi	II Present? Yes No No
Type: Depth (in				м ш			Hydric Sol	II Present? Yes No No
Type: Depth (in				ж м			Hydric Sol	II Present? Yes No No
Type: Depth (in				у из			Hydric Sol	II Present? Yes No No
Type: Depth (in				y dise			Hydric Sol	II Present? Yes No No
Type: Depth (in				N NOTE.			Hydric Sol	II Present? Yes No No
Type: Depth (in							Hydric Sol	II Present? Yes No No
Type: Depth (in							Hydric Sol	II Present? Yes No No



Wetland data point wsup027s_w facing north.



Wetland data point wsup027s_w facing northwest.

City/County: Suffolk Sampling Date: 2/9/16
State VII Sampling Form. 4500
Section, Township, Range: NONC
Local relief (concave, convex, none): none Slope (%): D-3/
72990 Long: - 76.70455 Datum: W6584
10am NWI classification: PSS
ear? Yes No (If no, explain in Remarks.)
y disturbed? Are "Normal Circumstances" present? Yes No
roblematic? (If needed, explain any answers in Remarks.)
g sampling point locations, transects, important features, etc.
Is the Sampled Area within a Wetland? Yes No
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Odor (C1) heres along Living Roots (C3) Iced Iron (C4) Ction in Tilled Soils (C6) E (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) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
-10
s): NA s): ID s): Z Wetland Hydrology Present? Yes No
s): <u>[D</u>
2

2201 2501	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1. Pinys talda	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:
	20	7	FAC	111at 716 65a; 17,644, 6171.5.
2. Alex rubrum	-60	-1	FACU	Total Number of Dominant
3. Liriodendron tulipitera	_5_		THU	Species Across All Strata: (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.			-	Prevalence Index worksheet:
7.	The Property of	20 S W 100 DO		Total % Cover of: Multiply by:
8.				OBL species x 1 =
	30	= Total Cov	er .	FACW species x 2 =
50% of total cover: 15	20% of	total cover	6	The state of the s
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species x 3 =
1. Alex rubrum	20	Y	FAC	FACU species x 4 =
2. Magnolia Virginiana	10	N	FACW	UPL species x 5 =
3. EXX DOMA	20	Y	FAC	Column Totals: (A) (B)
4. Quecciós nigro	ID	N	FAL	
	10	N	FAC	Prevalence Index = B/A =
5. Arulia spinosa			FAC	Hydrophytic Vegetation Indicators:
6. Liguidambar styraciflea	10	N		1 - Rapid Test for Hydrophytic Vegetation
7. Symplocos tinctoria	20		PAC	2 - Dominance Test is >50%
B	HUM. L.			3 - Prevalence Index is ≤3.01
	100	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 50	_ 20% of	total cover	20	
Herb Stratum (Plot size: 304 x 304)	20	V	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Rubus argutus	20	1		THE STATE OF THE S
2. Arunzindria gigantea	50	_/_	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.
В.				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 helaht.
	TORREST.	WEST STATES		neigh.
12.	77	= Total Cov	Carte Sec. 10 Del	
3-	70	= lotal Cov	er LU	
50% of total cover: 35	20% of	total cover		
Woody Vine Stratum (Plot size: 30f+ x 30f+)	0-	V	ENI	
1. Smilax rotundifolia	80		FAC	
2.		1.0000000		
3.			Padedo. C	
4.				
5.				Hydrophytic
	80	= Total Cov	er	Vegetation
50% of total cover: 40		total cover		Present? Yes No No
THE ACT OF THE RESIDENCE OF THE ACT OF THE A	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	total cover		
Remarks: (If observed, list morphological adaptations below	w).			

Profile Description: (Describe to the dept	h needed to docu	ment the I	ndicator	or confirm	n the absence of	Indicators.)
Depth Matrix		ox Features		1 ====	Texture	Remarks
(inches) Color (maist) %	Color (moist)	_ %	Type'	Loc2	fine SL	Kemarks
0 0 10 15 11 100				-м	the contract of the contract o	
B-11 10 YR 1/2 80.	10 YK 16	20			<u>5CL</u> _	
11-20 1048 3/2 80	104K3/6	20		M	SCL_	The state of the s
¹Type: C=Concentration, D=Depletion, RM=	Reduced Matrix A	IS-Mackad	Sand Gr	ine	21 ocation: PI	=Pore Lining. M=Matrix.
Hydric Soil Indicators: (Applicable to all I	RRs. unless othe	erwise noti	ed.)		Indicators for	Problematic Hydric Solls ³ :
Histosol (A1)	Polyvalue B			RR S. T.	U) 1 cm Mud	k (A9) (LRR O)
Histic Epipedon (A2)	Thin Dark S				2 cm Muc	k (A10) (LRR S)
Black Histic (A3)	Loamy Muc	SELECTION OF STREET STREET, THE		0)	Reduced	Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gley		F2)			Floodplain Soils (F19) (LRR P, S, T) us Bright Loamy Soils (F20)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)	Depleted M Redox Dark		6)		(MLRA	HILDER STREET, THE STREET HER STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET,
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Da				19 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	nt Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depr					llow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (Other (Ex	plain in Remarks)
★ Depleted Below Dark Surface (A11)	Depleted O				T) ³ Indicate	ors of hydrophytic vegetation and
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A	Iron-Manga) Umbric Surf					nd hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochri					disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vo	ertic (F18) (MLRA 15			
Sandy Redox (S5)	Piedmont F	l∞dplain S	oils (F19)	(MLRA 1	49A)	530)
Stripped Matrix (S6)	Anomalous	Bright Loar	my Soils (-20) (NILI	RA 149A, 153C, 1	530)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):				118 July 10 10	2 XT 224-2 SETS	
Type:						
Depth (inches):					Hydric Soll Pr	resent? Yes X No
Remarks:						
Tremains.						
						J
A STATE OF THE PARTY OF THE PAR						



Wetland data point wsup027s_w2 facing northeast.



Wetland data point wsup027s_w2 facing southwest.

Photo Sheet 1 of 2

Project/Site: ACP	City/County: Suffolk Sampling Date: 2/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: wsup 027-L
Investigator(s): EST-J. Havbour, 16, Murphrey	State Sampling Form.
• , ,	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Convex Slope (%).
Subregion (LRR or MLRA): LR Lat: 56,	73445 Long: -76.70142 Datum: W65 8
Soil Map Unit Name: EUN Ola loamy Fine sand	NWI classification: NA
Are climatic I hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
Recent Clear cut	
RECENT CICAL CON	
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 (B1	(B8) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15	5) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide (Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduc	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in F	Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagram moss (BO) (Error 1, O)
Surface Water Present? Yes No Depth (inches	o- NA
Water Table Present? Yes No Depth (inches	13"
Saturation Present? Yes No Depth (inches	Wetland Hydrology Present? Yes No
(includes capillary tringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
PORENT CLEARCHT, Habitat	disturbance & minimal vegetation
RECEIT CITCHEST / 100	and some of the same of the sa

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

216112061	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+ X30F+) 1. NOR PRESENT	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		(1)
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
I .	20% of total cover:	FACW species x 2 =
Sanling/Shrub Stratum (Plot size: 308+X308+)		FAC species x 3 =
1. ACEY YUBYUM	2 NA FAC	FACU species x 4 =
2		UPL species x 5 =
3.		Column Totals: (A) (B)
4 5		Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
6.		
7		2 - Dominance Test is >50%
8.		2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
	2 = Total Cover	
50% of total cover:	20% of total cover: O. 4	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 F+ X 30 F+)		¹ Indicators of hydric soil and wetland hydrology must
1. Avandinavia gigantea	10 y FACW	be present, unless disturbed or problematic.
0		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.
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
11		height.
12.	1() = Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: 30 + 130 + +)		
1. None Present		
_		
3		
4		
5	O = Total Cover	Hydrophytic Vegetation
50% of total cover:	= Total Cover	Present? Yes No No
Remarks: (If observed, list morphological adaptations belo		
100 PROBLEM (00 100 100 100 100 100 100 100 100 100	w).	
RECENT CHEATCUT		

Profile Description: (Describe to the depth needed to docume	nt the indicator or confirm th	ne absence of indicators.)
	eatures Local	Texture Remarks
(inches) Color (moist) % Color (moist)	% Type Loc²	Texture Remarks
0-4 104R2/2 100		
4-12 104R3/3 10U		SL
12-20 104R5/4 100		SL
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 otherw		Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Belo	w Surface (S8) (LRR S, T, U)	1 cm Muck (A9) (LRR O)
	ace (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
	Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4) Loamy Gleyed		Anomalous Bright Loamy Soils (F20)
Stratified Layers (A5) Depleted Matri Organic Bodies (A6) (LRR P, T, U) Redox Dark St		(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark		Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depress		Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LR	R U)	Other (Explain in Remarks)
	c (F11) (MLRA 151)	31
	e Masses (F12) (LRR O, P, T)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	e (F13) (LRR P, T, U) 17) (MLRA 151)	unless disturbed or problematic.
	(F18) (MLRA 150A, 150B)	amos distance of processing
	dplain Soils (F19) (MLRA 149A	A)
Stripped Matrix (S6) Anomalous Bri	ght Loamy Soils (F20) (MLRA	149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soli Present? Yes No
Remarks:		
		7
8		



Upland data point wsup027_u facing south.



Upland data point wsup027_u facing southwest.

Project/Site: ACP	City/0	County Suffolk	Sa	mpling Date: 219116
Applicant/Owner: Pominion	Only V	Southly.	State: VA Sa	mpling Point: W50-p027_ w
Investigator(s): Li Roper, M. S	anith som	ion Township Dance: V	anne ou	inpling Fourt.
Landform (hillslope, terrace, etc.): fla:				Slane (8/), D=3'/.
Landform (hillslope, terrace, etc.):	T 21 7	relief (concave, convex, r	none): 10110	Slope (%): U 5 11
Subregion (LRR or MLRA): LPP	Lat: 30.7	2 100 Long: _	16. 1097	Datum: W6507
Soil Map Unit Name: Lynchburg	time sondy 100	rw.	NWI classificatio	n: NH
Are climatic / hydrologic conditions on the s	ite typical for this time of year?	Yes No (I	If no, explain in Rema	arks.)
Are Vegetation, Soil, or Hyd	trology significantly distu	rbed? Are "Normal	Circumstances" prese	ent? Yes X No
Are Vegetation, Soil, or Hyd	drology naturally problem	natic? (If needed, ex	xplain any answers in	Remarks.)
SUMMARY OF FINDINGS - Atta	ch site map showing sar	mpling point location	ns, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes X No			
Hydric Soil Present?	Yes No X	Is the Sampled Area	Yes	N- X
Wetland Hydrology Present?	Yes No X	within a Wetland?	Yes	NO
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is rec	juired; check all that apply)	<u> </u>	Surface Soil Cra	cks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegeta	ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LR		Drainage Patterr	
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres		Dry-Season Wat	
Sediment Deposits (B2)	Presence of Reduced In		Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Thin Muck Surface (C7)	[17] P.N. Mark D. W. W. Mark D. H 1774	Geomorphic Pos	e on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remai		Shallow Aquitare	
Inundation Visible on Aerial Imagery		iks)	FAC-Neutral Tes	
Water-Stained Leaves (B9)	(5,)			(D8) (LRR T, U)
Field Observations:			A RENDANCE CO	
Surface Water Present? Yes	No X Depth (inches):	NA		
	No Depth (inches):	16		
Saturation Present? Yes X	No Depth (inches):	16 Wetland H	ydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pr	evious inspections), if avai	lable:	
				<u> </u>
Remarks:				
				N
No. 1 Mail of the art of the second				
94. and the same of the same o				
			Container of the container	danie za postanie i danie i da

,,	Ab1-4-	Danis	Indiantes	D-wisses Test weeksheets
Tree Stratum (Plot size: 30f+ x30f+)		Dominant Species?		Dominance Test worksheet:
	20	V	FAC	Number of Dominant Species That Are OBL FACW or FAC: (A)
1. Liquidambar styraciflua		-	FACU	That Are OBL, FACW, or FAC:(A)
2. Quereus folkuta	10		FACU	Total Number of Dominant
3.				Species Across All Strata: (B)
4				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
8.				The state of the s
	30	= Total Cov	/er	OBL species x 1 =
50% of total cover:15	20% of	total cover	: 6	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30++ x 30++)				FAC species x 3 =
1. Liquidambar styraciflus	25	V	FAC	FACU species x 4 =
1. Liabicamisar Styracition	26	-		UPL species x 5 =
2. Aler rubrum	25		PAC	Column Totals: (A) (B)
3. Rhus copillinum	5	N	UPL	Column Totals (A) (B)
4. Ilex opara	15	N	FAL	Prevalence Index = B/A =
5. Symploios trutoria	15	N	FAC	THE PROPERTY OF THE PROPERTY O
		nujerit -	17.00	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	-	10.00		2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	85	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 42	5 20% of	total cover	. 17	Troblematic rigarophytic vegetation (Explain)
Herb Stratum (Plot size: 30f4 x 30f4)				
	7-	V	cn/	¹ Indicators of hydric soil and wetland hydrology must
	30	1	FAC	be present, unless disturbed or problematic.
2. Arindmaria gigantea	20		FAUN	Definitions of Four Vegetation Strata:
- 00				Tree Mondy plants evaluding vines 3 in (7.6 cm) or
4.				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		Contact of		
	50	= Total Co	/er	
50% of total cover: 25		total cover		
Woody Vine Stratum (Plot size: 30ff x 30ff)				
VVOODY VIIIE STIATURE (FIOU SIZE, OF 11 A OF 17)	80	V	CAC.	
1. Smilax rotundifolia	00		LIIO	10 20 20
2				
3.	I ST VALLE			A
4.				
	-0.7			market and the second s
5	On	T		Hydrophytic
		= Total Co	- 1	Vegetation Present? Yes X No No
50% of total cover: 40	20% of	total cover	: 16	11030H1 103 NO
Remarks: (If observed, list morphological adaptations belo	w).	- Allian - Till		
Part of the Part o				

Ligine pesc		to the acpt	ii iieeded to docuii	ient the	ndicator	or commi	n the absence o	of mulcators.)	
Depth	Matrix	%	Color (moist)	x Feature %		Loc ²	Texture	Remarks	
(inches)	Color (moist)	100	Color (moist)	70	Type	LOC	Fine SL	Kemark	5
3-6	104R312	50			70.000		FineSL		
3 0	1016 16	50	1975			3000	FINESL		
6-16	2.57 5/4		701	-	-		£1 (1		
		95	15 V P W.	5		PL	fine SL SCL		
16-20	2.575/4	15	104R46				301		
		-		-		_			
							2		
	oncentration, D=Dep Indicators: (Applications)					ains.	*Location:	PL=Pore Lining, M=Ma for Problematic Hydri	atrix.
Histosol		able to all t	Polyvalue Be			RRSTI		uck (A9) (LRR O)	ic dolla .
	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
Black Hi			Loamy Muck	y Mineral	(F1) (LRR			ed Vertic (F18) (outsid	
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F1	
The second secon	d Layers (A5) Bodies (A6) (LRR P,	T 10	Depleted Mark S		6)			lous Bright Loamy Soil A 153B)	S (F2U)
	icky Mineral (A7) (LF		Depleted Dar	market backets to	to the second second			rent Material (TF2)	
	esence (A8) (LRR U		Redox Depre	ssions (F	8)			nallow Dark Surface (T	F12)
	ick (A9) (LRR P, T)		Marl (F10) (L				U Other (I	Explain in Remarks)	
The second secon	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Och				T) ³ Indica	ators of hydrophytic ve	getation and
	rairie Redox (A16) (N	ILRA 150A						and hydrology must be	
Sandy M	lucky Mineral (S1) (L		Delta Ochric	(F17) (MI	RA 151)			ss disturbed or probler	matic.
	Sleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C,	153D)	
			Anomalous E						
Dark Su	rface (S7) (LRR P, S	, T, U)			,	20, (2.	, ,,		
	rface (S7) (LRR P, S Layer (if observed):				,				
Restrictive I	Layer (if observed):				my come (V
Restrictive I Type: Depth (inc			_		, 00.10 (Present? Yes	No_ <u>X</u>
Restrictive I	Layer (if observed):		_		,	-5, (No_ <u>X</u>
Restrictive I Type: Depth (inc	Layer (if observed):				,				No_ <u>X</u>
Restrictive I Type: Depth (inc	Layer (if observed):		_		, 2010 (No X
Restrictive I Type: Depth (inc	Layer (if observed):				,				No_ <u>X</u>
Restrictive I Type: Depth (inc	Layer (if observed):				,				No X
Restrictive I Type: Depth (inc	Layer (if observed):				,				No <u>X</u>
Restrictive I Type: Depth (inc	Layer (if observed):				,				No <u>X</u>
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X
Restrictive I Type: Depth (inc	Layer (if observed):								No X



Upland data point wsup027_u2 facing northeast.



Upland data point wsup027_u2 facing southeast.

Photo Sheet 2 of 2

Project/Site: ACP	ity/County: Suffo	lk	Sampling Date: \2/16/15
Applicant/Owner: Dominion	nty/County:	State: V A	Sampling Point: W3up 0285_W
Investigator(s): EST-J. (Harvour, 10 murpureup		State: 071	Sampling Point:
			21/2
Landform (hillslope, terrace, etc.): Flat	ocal relief (concave, conv	ex, none): COAC	Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36,73		-16.1000	Datum: W658
Soil Map Unit Name: Lynchburg Fine Sondy war	٦	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology significantly di		mal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem		d, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing s			
Hydrophytic Vegetation Present? Yes No	Is the Sampled Are	a ,	
Hydric Soil Present? Yes No No	within a Wetland?	Yes	No
Remarks:			
Recent Clearcul			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Pa	
Saturation (A3) Hydrogen Sulfide Odd		Moss Trim L	
	es along Living Roots (C3	10.72	Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3) Recent Iron Reduction	n in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C		Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in Ren	narks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	211		
Surface Water Present? Yes No Depth (inches): _	711		
Water Table Present? Yes No Depth (inches):	Sur Goed		
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland	d Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if a	available:	
Remarks:			

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

2001112051	Absolute Dominant Indicator	Dominance Test worksheet:
1. None Present	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		mat Are OBE, FACW, of FAC (AB)
7.		Prevalence Index worksheet:
8.		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
	20% of total cover:	FACW species x 2 =
Seeling (Short Startum (Blat sing 3) A V3 VET	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3054 x3054) 1. ACEV VULVUM	S Y FAC	FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
0	= Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total agrees 2 5	20% of total cover:	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 3084 X3084)	/	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea		be present, unless disturbed or problematic.
		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.
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
	= Total Cover	
50% of total cover: (O	20% of total cover:	
Woody Vine Stratum (Plot size: 30 84 x 30 84		
1. none present		
2		
3		
4		
5.		Undershile
	= Total Cover	Hydrophytic Vegetation
50% of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo		
	,	
Recent clearcut		₹
±		

Profile Des	cription: (Describe	to the depth	needed to docur	nent the I	ndicator	or confirm	the absence	of Indicators.)	
Depth	Matrix			x Feature		12	Te4	D	marke
(inches)	Color (moist)	%	Color (moist)	%	Type	_Loc ⁴ _	Texture		marks
0-3	104R 2/1						5L	MUCKY	mineral
3-20	104R5/1	90 11	UR4/6	10	(\sim	SL		
	1								
-							2		
	oncentration, D=Dep					ains.		PL=Pore Lining, I for Problematic	
Hydric Soil	Indicators: (Application								
Histoso			Polyvalue Be					Muck (A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S	utside MLRA 150A,B)
_	istic (A3)		Loamy Muck			(0)			Is (F19) (LRR P, S, T)
	en Sulfide (A4)		Loamy Gleye		F2)			nalous Bright Loam	
_	d Layers (A5)	T 11)	Depleted Ma Redox Dark		6)		_	.RA 153B)	
	: Bodies (A6) (LRR P, ucky Mineral (A7) (LF		Depleted Da					Parent Material (TF:	2)
	resence (A8) (LRR U		Redox Depre					Shallow Dark Surfa	
_	uck (A9) (LRR P, T)	,	Marl (F10) (L		,			(Explain in Remark	
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)	19 TT 110		
	ark Surface (A12)	, ,	Iron-Mangan	ese Mass	es (F12) (LRR O, P,		cators of hydrophy	
Coast F	rairie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)		tland hydrology mu	
Sandy	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric				un	less disturbed or pr	roblematic.
Sandy	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo					. 4500)	
	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils (i	F20) (MLR/	A 149A, 1530	C, 153D)	
	rface (S7) (LRR P, S								
200000000000000000000000000000000000000	Layer (if observed):								
Type:			_				Hydric Sol	I Present? Yes	No
	iches):						Hydric 50	II FIGSORE TOS	
Remarks:									
1									
1									
8									



Wetland data point wsup028s_w facing north.



Wetland data point wsup028s_w facing northeast.

1 5 GOLG 15 11 11 15
Project/Site: A CP City/County: SUFFOIIC Sampling Date: 12/16/15
Applicant/Owner: Dominion State: VA Sampling Point: Wsup 0285
Investigator(s): EST- J. Harbury K. Murphrey Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Flot Local relief (concave, convex, none): Flot Slope (%): 0-2 Subregion (LRR or MLRA): LRR T Lat: 36.73737 Long: 76,69154 Datum: W65 8
Subregion (LRR or MLRA): LRR T Lat: 36.73737 Long: 76,69154 Datum: W65 &
Soil Map Unit Name: Lynchburg Fine Sondy 1000 NWI classification: PFC
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? Yes No Is the Samulation
Hydric Soil Present?
Wetland Hydrology Present? Yes No within a Wetland? Yes No
Remarks:
NCWAM: Pine Flat
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)
Şurface 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) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? YesNo Depth (inches): _NA
Water Table Present? Yes No Depth (inches): 12 '
Saturation Present? Yes No Depth (inches): 2" Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
nemarks.

201112051			t Indicator	Dominance Test worksheet:
1. Pinus taca	% Cover 50	1/	? 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 1009
6.				That Are OBL, FACW, or FAC:
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	50	= Total Co		OBL species x 1 =
50% of total cover: _ 2	5 200/ -	= rotar Co	(O	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+ X305+)	20% 0	r total cove	r. <u>(- </u>	FAC species x 3 =
	20	./	FAC	FACU species x 4 =
1. Ilex opaca 2. Ilex glabra	20	-/-	-	UPL species x 5 =
3. Symplocos tinctoria	10	N	FAC	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	-10	-		3 - Prevalence Index is ≤3.01
2.		= Total Co		Problematic Hydrophytic Vegetation1 (Explain)
50% of total cover: 32	20% of	total cove	r. 10	
1. Avundinav a gigantea	40	4	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		- /		Definitions of Four Vegetation Strata:
3				Tree Miles de Plante evaludina vinca 3 in (7.6 am) es
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or 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.
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
11				height.
12				
	40	= Total Co	ver	
50% of total cover: 2Δ	20% of	total cove	r: _ &	
Woody Vine Stratum (Plot size:)	1.7		F	
1. Smilax ruturdisolia	10	7	FAC	
2				
3				
4				
5				Hydrophytic
	10	= Total Co	ver	Vegetation
50% of total cover:		total cover	_	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
a a				

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of mulcators.)
Depth Matrix Redox Features	Touture Bornelie
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
7 1001001	
3-10 104R5/1 97 104R5/4 3 CM	<u>LS</u>
10-20 104R4/1 95 104R4/4 5 C M	LS
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solls ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	1
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U	I) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S)
Histic Epipedon (A2) — Histic Epipedon (A2) — 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) 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) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) 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 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	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Restrictive Layer (if observed): Type:	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type:	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soli Present? Yes No



Wetland data point wsup028f_w facing north.



Wetland data point wsup028f_w facing northeast.

Project/Site: ACP City/C	County: SUSSUIC Sampling Date: 12/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: WSup 028.
Investigator(s): EST-J. Harbour, K. Murphrey Section	Towardia Bassa NA
investigator(s). Est of the section	on, Township, Range:
Landform (hillslope, terrace, etc.): Flat Local	relief (concave, convex, none): 1 (Concave, conv
Subregion (LRR or MLRA): LRR † Lat: 36.736	
Soil Map Unit Name: Lynchburg Fine Sondy loan	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	res No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	20.50%
SUMMARY OF FINDINGS – Attach site map showing sam	
Sommer of Findings - Attach site map showing sail	ipling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	WALIII & VICIALIA
Remarks:	
Recent cleaveut	
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) (LRF	
Water Marks (B1) Oxidized Rhizospheres a	(1) 1 (T.) (1) (1) (T.) (1) (T.)
Sediment Deposits (B2) Presence of Reduced Iron Drift Deposits (B3) Recent Iron Reduction in	
Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	_ /
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):	A
Water Table Present? YesNo Depth (inches):	
Saturation Present? Yes No Depth (inches): 8	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
Recent clearcut, Hobitat disturbance	, minimal vegetation
	ži i

2.6.10.61	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X308+) 1. NONE Presen+				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 10090 (A/B)
6				Prevalence Index worksheet;
7				
8				Total % Cover of: Multiply by:
	0	= Total Co	ver	OBL species x 1 =
50% of total cover:	20% of	total cove	r:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3084 X3064)				FAC species x 3 =
1. Vaccinium curymbusum	5	_ Y	FACW	FACU species x 4 =
2. Acer rubrum			FAC	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
3.5	:	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>3.5</u>	20% of	total cove	r. 1, 4	
1. AVUNDINOVIO GIBONARO	10	7	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				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				North All hostocome (non-woods) plants reportless
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				(345° 1000 34° (345° 445° 176) 4794 5° 1. 156° 1. 156° 1. 157° 1. 158°
11				Woody vine - All woody vines greater than 3.28 ft in height.
12.				neight.
14.	10	- Total Cor	·nr	
50% of total cover: 5	20% of	total agree	. 2	
Woody Vine Stratum (Plot size: 30Ft X 30Ft)	_ 2070 01	total cover		
1. Nume Present				
-				
2				
3				
4				
5				Hydrophytic
		Total Co		Vegetation Present? Yes No
50% of total cover:	20% of	total cover	:	103 NO
Remarks: (If observed, list morphological adaptations below	w).			
RECEPT CLEAVEGT				

	cription: (Describe)	o tilo doptiii				or commin	the absence	or mulcato	.,	
Depth	Matrix Color (maist)	0/-		x Features	Type	Loc²	Texture		Remarks	
(inches)	Color (moist)	150	Color (moist)		туре	LOC	1 <		Homains	-
-	104RT/R									
4-8	104R 3/3	100					<u>L</u> >			
4-20	104R4/4	150					51			
	-									
¹Type: C=C	oncentration, D=Dep	etion, RM=Re	duced Matrix, Ma	S=Masked S	Sand Gra	ins.			ning, M=Matrix	
Hydric Soil	Indicators: (Application	able to all LRI	Rs, unless other	rwise noted	d.)		Indicators	for Probler	natic Hydric S	ioils ³ :
Histosol	(A1)		Polyvalue Be	low Surface	e (S8) (LI	RR S, T, L	J) 1 cm M	luck (A9) (L	RR O)	
Histic E	pipedon (A2)	_	Thin Dark Su	ırface (S9) (LRR S,	r, u)		luck (A10) (
	istic (A3)	-	Loamy Muck			0)			18) (outside M	
	en Sulfide (A4)		Loamy Gleye		2)				in Soils (F19)	
	d Layers (A5)		Depleted Ma					RA 153B)	Loamy Soils (F	-20)
	Bodies (A6) (LRR P,		Redox Dark Depleted Da		To the second			arent Materi	al (TF2)	
	ucky Mineral (A7) (LF resence (A8) (LRR U		Redox Depre						Surface (TF1:	2)
_	uck (A9) (LRR P, T)		Marl (F10) (L		,			Explain in F		
	d Below Dark Surface	e (A11)	Depleted Oc		MLRA 15	1)			•	
	ark Surface (A12)		Iron-Mangan				T) ³ Indic	ators of hyd	rophytic veget	ation and
Coast P	rairie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ce (F13) (L	RR P, T,	U)			ogy must be pr	
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric					ess disturbe	d or problemat	ic.
	Gleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont Flo					453D)		
	Matrix (S6)	- III	Anomalous E	Bright Loam	y 50115 (F	·20) (MLR	A 149A, 153C	, 1330)		
	rface (S7) (LRR P, S Layer (If observed):									
IVOSTITUTION							1			
Time:										
			-				Hydric Soll	Present?	Yes	No V
Depth (in			_				Hydric Soll	Present?	Yes	No.
-			-				Hydric Soll	Present?	Yes	No
Depth (in			-				Hydric Soll	Present?	Yes	No No
Depth (in			-				Hydric Soli	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No
Depth (in							Hydric Soll	Present?	Yes	No
Depth (in			_				Hydric Soll	Present?	Yes	No
Depth (in			-				Hydric Soll	Present?	Yes	No.
Depth (in			-				Hydric Soll	Present?	Yes	No.
Depth (in			-				Hydric Soll	Present?	Yes	No.
Depth (in			-				Hydric Soll	Present?	Yes	No.
Depth (in			-				Hydric Soli	Present?	Yes	No.
Depth (in			-				Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in							Hydric Soll	Present?	Yes	No.
Depth (in							Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in							Hydric Soll	Present?	Yes	No.
Depth (in							Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.
Depth (in			_				Hydric Soll	Present?	Yes	No.



Upland data point wsup028_u facing southeast.



Upland data point wsup028_u facing southwest.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	ity/County: Suffo	lk	Sampling Date: \2/16/15
Applicant/Owner: Dominion	nty/County:	State: V A	Sampling Point: W3up 0285_W
Investigator(s): EST-J. (Harvour, 10 murpureup		State: 071	Sampling Point:
			21/2
Landform (hillslope, terrace, etc.): Flat	ocal relief (concave, conv	ex, none): COAC	Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36,73		-16.1000	Datum: W658
Soil Map Unit Name: Lynchburg Fine Sondy war	٦	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology significantly di		mal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem		d, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing s			
Hydrophytic Vegetation Present? Yes No	Is the Sampled Are	a ,	
Hydric Soil Present? Yes No No	within a Wetland?	Yes	No
Remarks:			
Recent Clearcul			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Pa	
Saturation (A3) Hydrogen Sulfide Odd		Moss Trim L	
	es along Living Roots (C3	10.72	Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3) Recent Iron Reduction	n in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C		Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in Ren	narks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	211		
Surface Water Present? Yes No Depth (inches): _	711		
Water Table Present? Yes No Depth (inches):	Sur Goed		
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland	d Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if a	available:	
Remarks:			

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

2001112051	Absolute Dominant Indicator	Dominance Test worksheet:
1. None Present	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		mat Are OBE, FACW, of FAC (AB)
7.		Prevalence Index worksheet:
8.		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
	20% of total cover:	FACW species x 2 =
Seeling (Short Startum (Blat sing 3) A V3 VET	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3054 x3054) 1. ACEV VULVUM	S Y FAC	FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
0	= Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total agrees 2 5	20% of total cover:	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 3084 X3084)	/	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea		be present, unless disturbed or problematic.
		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.
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
	= Total Cover	
50% of total cover: (O	20% of total cover:	
Woody Vine Stratum (Plot size: 30 84 x 3084		
1. none present		
2		
3		
4		
5.		Undershile
	= Total Cover	Hydrophytic Vegetation
50% of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo		
	,	
Recent clearcut		₹
±		

Profile Des	cription: (Describe	to the depth	needed to docur	nent the I	ndicator	or confirm	the absence	of Indicators.)	
Depth	Matrix			x Feature		1 2	Te4	D	marke
(inches)	Color (moist)	%	Color (moist)	%	Type	_Loc ⁴ _	Texture		marks
0-3	104R 2/1						5L	MUCKY	mineral
3-20	104R5/1	90 11	UR4/6	10	(\sim	SL		
	1								
							2		
	oncentration, D=Dep					ains.		PL=Pore Lining, I for Problematic	
Hydric Soil	Indicators: (Application								
Histoso			Polyvalue Be					Muck (A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S	utside MLRA 150A,B)
_	istic (A3)		Loamy Muck			(0)			Is (F19) (LRR P, S, T)
	en Sulfide (A4)		Loamy Gleye		F2)			nalous Bright Loam	
_	d Layers (A5)	T 11)	Depleted Ma Redox Dark		6)		_	.RA 153B)	
	: Bodies (A6) (LRR P, ucky Mineral (A7) (LF		Depleted Da					Parent Material (TF:	2)
	resence (A8) (LRR U		Redox Depre					Shallow Dark Surfa	
_	uck (A9) (LRR P, T)	,	Marl (F10) (L		,			(Explain in Remark	
	d Below Dark Surface	e (A11)	Depleted Oc		(MLRA 1	51)	19 TT 110		
	ark Surface (A12)	, ,	Iron-Mangan	ese Mass	es (F12) (LRR O, P,		cators of hydrophy	
Coast F	rairie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ace (F13) (LRR P, T	, U)		tland hydrology mu	
Sandy	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric				un	less disturbed or pr	roblematic.
Sandy	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo					. 4500)	
	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils (i	F20) (MLR/	A 149A, 1530	C, 153D)	
	rface (S7) (LRR P, S								
200000000000000000000000000000000000000	Layer (if observed):								
Type:			_				Hydric Sol	I Present? Yes	No
	iches):						Hydric 50	II FIGSORE TOS	
Remarks:									
1									
1									
8									



Wetland data point wsup028s_w facing north.



Wetland data point wsup028s_w facing northeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

1 5 GOLG 15 11 11 15
Project/Site: A CP City/County: SUFFOIIC Sampling Date: 2/16/15
Applicant/Owner: Dominion State: VA Sampling Point: Wsup 0285
Investigator(s): EST- J. Harbury K. Murphrey Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Flot Local relief (concave, convex, none): Flot Slope (%): 0-2 Subregion (LRR or MLRA): LRR T Lat: 36.73737 Long: 76,69154 Datum: W65 8
Subregion (LRR or MLRA): LRR T Lat: 36.73737 Long: 76,69154 Datum: W65 &
Soil Map Unit Name: Lynchburg Fine Sondy 1000 NWI classification: PFC
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? Yes No Is the Samulation
Hydric Soil Present?
Wetland Hydrology Present? Yes No within a Wetland? Yes No
Remarks:
NCWAM: Pine Flat
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)
Şurface 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) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? YesNo Depth (inches): _NA
Water Table Present? Yes No Depth (inches): 12 '
Saturation Present? Yes No Depth (inches): 2" Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
nemarks.

201112051			t Indicator	Dominance Test worksheet:
1. Pinus taca	% Cover 50	1/	? 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 1009
6.				That Are OBL, FACW, or FAC:
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	50	= Total Co		OBL species x 1 =
50% of total cover: _ 2	5 200/ -	= rotar Co	(O	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+ X305+)	20% 0	total cove	r. <u>(-</u>	FAC species x 3 =
	20	./	FAC	FACU species x 4 =
1. Ilex opaca 2. Ilex glabra	20	-/-	-	UPL species x 5 =
3. Symplocos tinctoria	10	N	FAC	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	-10	-		3 - Prevalence Index is ≤3.01
2.		= Total Co		Problematic Hydrophytic Vegetation1 (Explain)
50% of total cover: 32	20% of	total cove	r. 10	
1. Avundinav a gigantea	40	4	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		- /		Definitions of Four Vegetation Strata:
3				Tree Miles de Plante evaludina vinca 3 in (7.6 am) es
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or 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.
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
11				height.
12				
	40	= Total Co	ver	
50% of total cover: 2Δ	20% of	total cove	r: _ &	
Woody Vine Stratum (Plot size:)	1.7		F	
1. Smilax ruturdisolia	10	7	FAC	
2				
3				
4				
5				Hydrophytic
	10	= Total Co	ver	Vegetation
50% of total cover:		total cover	_	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
a a				

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	Touture Bornelie
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
7 1001001	
3-10 104R5/1 97 104R5/4 3 CM	<u>LS</u>
10-20 104R4/1 95 104R4/4 5 C M	LS
	21 N - D - D Lining Manager
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solis ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U 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) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
Muck Presence (A8) (LRR U) Redox Depressions (F8) 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) 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) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 14	State of the state
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14 Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	
Dark Surface (S7) (LRR P, S, T, U)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soli Present? Yes No
Remarks:	



Wetland data point wsup028f_w facing north.



Wetland data point wsup028f_w facing northeast.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City/C	County: SUSSUIC Sampling Date: 12/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: WSup 028.
Investigator(s): EST-J. Harbour, K. Murphrey Section	Tamakia Bassa NA
investigator(s). Est of the Section Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Flat Local	relief (concave, convex, none): 1 (Concave, conv
Subregion (LRR or MLRA): LRR † Lat: 36.736	
Soil Map Unit Name: Lynchburg Fine Sondy loan	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	res No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	20.50%
SUMMARY OF FINDINGS – Attach site map showing sam	
Sommer of Findings - Attach site map showing sail	ipling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	WALIII & VICIALIA
Remarks:	
Recent cleaveut	
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) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	(1) 1 (T) 1 (T
Sediment Deposits (B2) Presence of Reduced Iron Drift Deposits (B3) Recent Iron Reduction in	
Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	_ /
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):	A
Water Table Present? YesNo Depth (inches):	
Saturation Present? Yes No Depth (inches): 8	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
Recent clearcut, Hobitat disturbance	, minimal vegetation
	ži i

2.6.10.61	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 3084 X 3084) 1. NONE Present				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 10090 (A/B)
6				Prevalence Index worksheet;
7				
8				Total % Cover of: Multiply by:
	0	= Total Co	ver	OBL species x 1 =
50% of total cover:	20% of	total cove	r:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 3084 X 3084)				FAC species x 3 =
1. Vaccinium curymbusum	5	Y	FACW	FACU species x 4 =
2. Acer rubrum			FAC	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
3.6	:	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>3.5</u>	20% of	total cover	1,4	
Herb Stratum (Plot size: 3054 X 3054) 1. AVUNDINOVIO GIBONARO	10	7	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				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.				Hart All had a second a second a second as
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				(345° 1000 34° 000 400 176 1790 5° 100° 15° 100° 100° 10° 10° 10° 10° 10° 10° 10°
				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	10	T-1-10		
50% of total cover: 5		lotalCo	ver o	
	20% of	total cover		
Woody Vine Stratum (Plot size: 30Ft X 30Ft)				
1. Nune Plesent				
2				
3				
4				
5				Hydrophytic
	=	Total Co	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations below				
RECENT CLEAVEAT				
MICHIA CITATEM				

	ription. (Describe)					or commi	the absence	or manage	,	
Depth	Matrix Color (maist)	- 04		x Features	Type	Loc²	Texture		Remarks	
(inches)	Color (moist)	1.171	Color (moist)		Type		1 <		Homans	-
-	104R4/2	100					1 2			
4-8	104K 3/3	100					<u> </u>			
4-20	104R4/4	100					51			
¹ Type: C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.			ning, M=Matrix	
Hydric Soil	Indicators: (Application	able to all LR	Rs, unless othe	rwise note	d.)				natic Hydric S	soils":
Histosol	(A1)		Polyvalue Be							
	pipedon (A2)		Thin Dark Su					luck (A10) (U DA 450A DI
	istic (A3)		Loamy Muck			0)			in Soils (F19)	ILRA 150A,B)
	en Sulfide (A4)		Loamy Gleye Depleted Ma		-2)				Loamy Soils (F	
	d Layers (A5) Bodies (A6) (LRR P,	T. UI	Redox Dark		6)			RA 153B)	(
	ucky Mineral (A7) (LF		Depleted Da		S. C. Connection			arent Materi	al (TF2)	
	resence (A8) (LRR U		Redox Depre						Surface (TF1:	2)
1 cm Mu	uck (A9) (LRR P, T)		Marl (F10) (L				Other	Explain in F	Remarks)	
	d Below Dark Surface	e (A11)	Depleted Oc				_ 3			-N
	ark Surface (A12)		Iron-Mangan						rophytic veget ogy must be pr	
	rairie Redox (A16) (M		Umbric Surfa Delta Ochric			, 0)			d or problemat	
	Mucky Mineral (S1) (L Gleyed Matrix (S4)	.KK U, S)	Reduced Ve			0A. 150B)		JJJ distalbe	d or problema	
	Redox (S5)		Piedmont Flo							
	Matrix (S6)						RA 149A, 153C	, 153D)		
	rface (S7) (LRR P, S	i, T, U)								
Restrictive	Layer (If observed):									
1220-09-00-0	Layer (If observed):		_							
Туре:			_				Hydric Soll	Present?	Yes	No
Туре:			_				Hydric Soll	Present?	Yes	No No
Type: Depth (in			_				Hydric Soli	Present?	Yes	No
Type: Depth (in			_				Hydric Soli	Present?	Yes	No No
Type: Depth (in							Hydric Soli	Present?	Yes	No No
Type: Depth (in			_				Hydric Soll	Present?	Yes	No
Type: Depth (in			_				Hydric Soll	Present?	Yes	No
Type: Depth (in			_				Hydric Soll	Present?	Yes	No
Type: Depth (in			_				Hydric Soll	Present?	Yes	No No
Type: Depth (in			_				Hydric Soli	Present?	Yes	No No
Type: Depth (in							Hydric Soli	Present?	Yes	No No
Type: Depth (in							Hydric Soli	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soli	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soli	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No
Type: Depth (in							Hydric Soll	Present?	Yes	No



Upland data point wsup028_u facing southeast.



Upland data point wsup028_u facing southwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP City/County: SUSEO	Sampling Date: 12/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: W54p 029f.w
Investigator(s): ESI-J. Harbour, K. Murehrey Section, Township, Range:	0/4
Investigator(s): Los of the book / te. More Price Section, Township, Range.	(CIDEAN) 0-2
Landform (hillslope, terrace, etc.): DYa nogeway Local relief (concave, conv	ex, none): CONCOVE Slope (%).
Subregion (LRR or MLRA): LRRT Lat: 36.73820 Long	76.64875 Datum: W6564
Soil Map Unit Name: Rains fine soney worm	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 "Nor	mal Circumstances" present? Yes No
	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point local	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Are	
Hudrig Soil Procent?	
Wetland Hydrology Present? Yes No within a Wetland?	Yes No
Remarks:	
	1
NCWAM: Pine Flat	
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	B) 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:	A 10 (100 a 10 a 10 a 10 a 10 a 10 a 10 a
Surface Water Present? YesNo Depth (inches):	
Water Table Present? Yes No Depth (inches): _(\(\frac{1}{2}\)!	
Catalant Troopin:	nd Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	available:
Remarks:	
1	

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 308+1808+)	% Cover	Species	Status	Number of Dominant Species
1. Pinus taeda	50	¥	FAC	That Are OBL, FACW, or FAC:(A)
		7		
2				Total Number of Dominant Species Across All Strata: (B)
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				
7.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	-			OBL species x 1 =
	50			FACW species x 2 =
50% of total cover: 25	20% of	total cover	: 10	
Sapling/Shrub Stratum (Plot size: 305+ X 305+)				FAC species x 3 =
1. Ilex opaca	20	Y	FAC	FACU species x 4 =
2. ILEY GLADYO	40	V	FACW	UPL species x 5 =
	-10	-/-		Column Totals: (A) (B)
3. Pinus tarda		<u>N</u>	FAC	
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
No. Company of A	65	= Total Co	ver ,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 32. 5	20% of	total cover	: (3	
Herb Stratum (Plot size: 305+ X305+)				It is a set of the second burdeness and
AV cod look A October 100	20	V	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinaria gigantes	00	-	17100	
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
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				ulan 3 iii. DBH and greater than 3.20 it (1 iii) taii.
В				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				
	20	= Total Co	ver /.	
50% of total cover:	20% of	total cover	- - +	
Woody Vine Stratum (Plot size: 30F+X30F+		11.2		
1. Smilax bunanux	2	AN	FAC	
1. 3111100		-1011		
2.				
3				
4.				
5	2021			Hydrophytic
J	2	= Total Co		Vegetation
1				Present? Yes No No
50% of total cover:	20% of	total cover	. <u>U, 1</u>	
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	Turtura
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
0-13 104R2/1 100	SL
13-18 104R3/1 95 104R3/4 5	SL
18-20 104R4/2 95 104R4/4 5	SL
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 ^a :
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) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Anomalous Bright Loamy Soils (F20)
Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)	(MLRA 153B)
Organic Bodies (AB) (ERR 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) Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	T) Indicators of hydrophytic vegetation and wetland hydrology must be present,
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	diffess distalled of prositional
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 145)	9A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR/	
Dark Surface (S7) (LRR P, S, T, U)	
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	
Restrictive Layer (if observed): Type:	
Restrictive Layer (if observed):	Hydric Soll Present? Yes No
Restrictive Layer (if observed): Type:	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	
Restrictive Layer (if observed): Type: Depth (inches):	



Wetland data point wsup029f_w facing east.



Wetland data point wsup029f_w facing northeast.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP Applicant/Owner: Dominion Applicant/Owner: Dominion Investigator(s): EST-J. Hov www, K. Muv Parey Landform (hillslope, terrace, etc.): Flot Local relief (concave, convex, none): Flot Sampling Date: 12/16/16 Sompling Date: 12/16/16 Sampling Date
Investigator(s): ESI-J. How your, K. Mur Parey Section. Township. Range: NA
Investigator(s): EDL-0. If all authority Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36.73804 Long: -76,69900 Datum: W65
Soil Map Unit Name: Rains Fine Sondy luon NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, et
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Remarks:
HYDROLOGY
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No Depth (inches):^A
Water Table Present? Yes No Depth (inches): 220
Saturation Present? Yes No Depth (inches): 220 Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Nerrans.

2.5.5.5	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F+X30F+) 1. Pinus faeda		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata:
4.				Percent of Dominant Species //) 190
5				That Are OBL, FACW, or FAC: (A/B)
6 7				Prevalence Index worksheet:
8.				Total % Cover of:Multiply by:
0	50	= Total Co		OBL species x 1 =
50% of total cover: 25		total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 305+1X 305+1)	20 70 01	total cover		FAC species x 3 =
1. ILEX ORDCA	10	Y	FAC	FACU species x 4 =
2. Ilex glabra	20	V	FACW	UPL species x 5 =
3. Morella cerifera	5	Ń	FAC	Column Totals: (A) (B)
4. Symplocos tincturia	2		FAC	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	37			3 - Prevalence Index is ≤3.01
10	-	= Total Co	ver 7 LL	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 18.	<u></u> 20% of	total cover	71-17	
1. Chasmorthian laxum	5	N	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Eupprovium capillifolium	5	N	FACU	Definitions of Four Vegetation Strata:
3. Rubus arquitas	10	4	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Arundinaria gigantea	10	4	FACW	more in diameter at breast height (DBH), regardless of
5. SCIPPUS CAPETINUS	5	N	OBL	height.
6. Pteridium aguilinum	2	\sim	FACU	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
11				height.
12				
	37	= Total Co	ver /	
50% of total cover: 15.	5 20% of	total cover	7.4	
Woody Vine Stratum (Plot size: 308+1/3084)				
1. None present				
2				
3				
4				
5				Hydrophytic
	0	= Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Des	cription: (Describe to the de	pth needed to document the Indicator or confl	rm the absence of Indicators.)
Depth	Matrix Color (moist) %	Redox Features Color (moist) % Type Loc²	
(inches)	104R 2/2 100	Cod (most) 70 Type Loc	LS
			10
3-12	104R3/2 100		_ <u></u>
12-20	104R5/4 100		FS
		1=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
Histoso	l (A1)	Polyvalue Below Surface (S8) (LRR S, T	
	pipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
	listic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20) (MLRA 153B)
	: Bodies (A6) (LRR P, T, U) ucky Mineral (A7) (LRR P, T, L	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Red Parent Material (TF2)
	resence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
	ed Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
	ark Surface (A12)	Iron-Manganese Masses (F12) (LRR O,	
		(LRR P, T, U)	wetland hydrology must be present,
	Mucky Mineral (S1) (LRR O, S	1	unless disturbed or problematic.
	Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150	
	Redox (S5) d Matrix (S6)	 Piedmont Floodplain Soils (F19) (MLRA Anomalous Bright Loamy Soils (F20) (M 	140 140 110 110 140 140 140 140 140 140
	urface (S7) (LRR P, S, T, U)	Alonalous Bright Loanly Colls (1 20) (III	
	Layer (if observed):		
Type:			V
	nches):		Hydric Soil Present? Yes No
Remarks:			,
Remarks.			



Upland data point wsup029_u facing south.



Upland data point wsup029_u facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: A CP City/Cou	inty: Suffolk Sampling Date: 1/20/16
Applicant/Owner: Dominion	State: VA Sampling Point: WSur 007-C
	Township, Range: \triangle / A
Landform (hillslope, terrace, etc.): Drainage Local rel	lief (concave, convex, none): Concave Slope (%): 0-3
Subregion (LRR or MLRA): LRRT Lat: 36,736	
Subregion (LRR or MLRA): LET Lat: OV. 15	101 Long: 70, 678 & Datum: 2703 2
Soil Map Unit Name: Rains Fine Sandy IDam	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed	d? 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 samp	ling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	the Convoled Asse
Hydric Soil Present?	s the Sampled Area vithin a Wetland? Yes No
Wetland Hydrology Present? Yes _ No	ittiin a wettand?
Remarks:	8
	n = 1
NCWAM : Hardwood Flat	
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) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U	☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	
Water Marks (B1) Oxidized Rhizospheres alon	
Sediment Deposits (B2)	C4) Crayfish Burrows (C8)
Drift Deposits (B3)	lled 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) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	opragnammoss (20) (Erric 1, 0)
Surface Water Present? Yes No _X Depth (inches):N	+
Water Table Present? Yes X No Depth (inches): 20	
Saturation Present? Yes X No Depth (inches): (O	Wetland Hydrology Present? Yes No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	yus inspections) if available:
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previo	us inspections), il avaliable.
Remarks:	
	Na l
	and the second second

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

7222011	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30x30 ft	% Cover	Species?	A STATE OF THE PARTY OF THE PAR	Number of Dominant Species
1. Pinus taeda	13		FAC	That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	-8	<u> </u>	FAC	Total Number of Dominant
3. NYSSa Sylvatica	5_	_ Y	FAC	Species Across All 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	-00			
10.	25	= Total Cov	ver _	OBL species x 1 =
50% of total cover: /2.5	20% of	total cover	5	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: ろか光さった)		1		FAC species x 3 =
1. Acer rubrum	17	<u> </u>	FAL	FACU species x 4 =
2. Ilex opaca	10	Y	FAC	UPL species x 5 =
3. Cornus stricta	(0	N	FACIN	Column Totals: (A) (B)
4. Queras nigra	1-1	N	FAC	Prevalence Index = B/A =
5.	H			Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.		Z TAUT		3 - Prevalence Index is ≤3.0¹
	37	= Total Cov	er	
50% of total cover: 18	5 20% of	total cover	7.4	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 x 30 H	207001	total cover		
1. Arindinaria gigantea	15	Y	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Symplocoos tinctoria	10	1	FAC	Definitions of Four Vegetation Strata:
The first transfer of			A CONTRACTOR OF THE PARTY OF TH	Definitions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4			DOWN TO PRODUCE TO SERVE	more in diameter at breast height (DBH), regardless of height.
5			1000	neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7			CONTRACTOR STATE	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.			GRANCH NUMBER	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				
		= Total Cov	-	
50% of total cover: /D.	5 20% of	total cover	4.2	
Woody Vine Stratum (Plot size: 30 x 30 ft)				
1. None				
2.				
3.				
4.				
5.				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:	Post M. Own PSERMEN	total cover		Present? Yes No No
Remarks: (If observed, list morphological adaptations belo				
Trainants: (II observed, iist metphological adaptations belo	,.			

Depth	ription: (Describe to Matrix			Feature				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²		Remarks
0-8	104R 2/1						SL_	
8-20	7.54R4/2	80	7.54R/2	20		M	SCL	
ydric Soil II Histosol (I Histosol (I Histic Epi Black His Hydroger Stratified Organic E 5 cm Muck Muck Pre 1 cm Muck Depleted Thick Dail Coast Pre Sandy Mi Sandy Gi Sandy Re Sandy Re	pedon (A2) tic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR P, cky Mineral (A7) (LRF esence (A8) (LRR U) ck (A9) (LRR P, T) Below Dark Surface ck Surface (A12) airie Redox (A16) (MI ucky Mineral (S1) (LF eyed Matrix (S4)	t, U) R P, T, U) (A11) LRA 150A	RRs, unless other Polyvalue Beld Thin Dark Sur Loamy Mucky Loamy Gleyec Depleted Matr Redox Dark S Depleted Dark Redox Depres Marl (F10) (LF Depleted Och Iron-Mangane Umbric Surfac Delta Ochric (I Reduced Verti Piedmont Floc	wise note ow Surface face (S9) Mineral d Matrix (ix (F3) urface (F6 c Surface essions (F6 RR U) ric (F11) se Masse ee (F13) (F17) (ML ic (F18) (odplain S	ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1: es (F12) (LRR P, T RA 151) MLRA 15 oils (F19)	RR S, T, I T, U) O) S1) LRR O, P, U) OA, 150B)	Indicators for P U) 1 cm Muck (2 cm Muck (Reduced Ve Piedmont FI Anomalous (MLRA 15 Red Parent Very Shallor Other (Expla	Material (TF2) w Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Dark Sur	face (S7) (LRR P, S, ayer (if observed):	T, U)	Anomalous Br	igiit Loai	ny sons (-20) (WILF	KA 149A, 153C, 153	
Type: Depth (inc	hes):						Hydric Soil Pres	ent? Yes No



Wetland data point wsur007f_w facing north.



Wetland data point wsur007f_w facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP City/County: SUFFOIK Sampling Date: 1/20/16 State: VA Sampling Point: Wsur 007-u Applicant/Owner: Dominion Investigator(s): C. Jacobs, C. Mc Eachern Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%) Subregion (LRR or MLRA): LRRT Lat: 36,73903 Long: -76,69800 Soil Map Unit Name: Rains Fine Sandy NWI classification: NOVE 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 ______ No Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) 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) 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 Aguitard (D3) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Yes No ____ Depth (inches): _ Surface Water Present? Yes No > Depth (inches): Water Table Present? Wetland Hydrology Present? Yes _____ No Yes ____ No _ Depth (inches): _ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Tree Stratum (Plot size: 30X3DA)	Absolute Dominant Indicator	Dominance Test worksheet:
1. Plaus taeda	% Cover Species? Status 15 Y FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Ruercus alba	10 Y FACU	
3. Liquidambar styracifina	6 N FAC	Total Number of Dominant Species Across All Strata: (B)
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of:Multiply by:
8	3 = Total Cover	OBL species x 1 =
15	5 20% of total cover: 10.2	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 X 30 Pt)	20% of total cover: 10: 2	FAC species x 3 =
1. I/ex opaca	11 Y FAR	FACU species x 4 =
2. Liquidambar Styraciflua	10 V FAC	UPL species x 5 =
3. ACET Pubrum		Column Totals: (A) (B)
4. Querens nigra	S N FAC	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
	34 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: / 7	20% of total cover: 6.8	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30 x 30 H) 1. NONE		¹ Indicators of hydric soil and wetland hydrology must 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 height.
5		
6		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 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.		
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: ろりょうりだ)		
1. North		
2.		
3.	NEW CONTROL OF STREET OF STREET, STREET OF STREET, STR	
4		
5		Hudanahuda
	= Total Cover	Hydrophytic Vegetation
50% of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptations belo	April 1 and Article Article accurately	
Tremains. (Il observed, list morphological adaptations see	···/.	

	ription: (Describe t	o the depth				or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Features %	Type	Loc²	Texture	Remarks
0-6	164R 6/2	100	O O I O I I I I I I I I I I I I I I I I			,	C	
1 -	10110711							
6-20	101K114	100_						
				-				
						-		
	oncentration, D=Depl					ains.		=Pore Lining, M=Matrix.
	ndicators: (Applica	ble to all LR						Problematic Hydric Soils ³ :
Histosol			Polyvalue B					(A9) (LRR O)
Black His	ipedon (A2)		Thin Dark S Loamy Mucl					 (A10) (LRR S) /ertic (F18) (outside MLRA 150A,B
	n Sulfide (A4)		Loamy Gley			. 0,		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark	Surface (F	6)		(MLRA	
	cky Mineral (A7) (LR		Depleted Da					nt Material (TF2)
	esence (A8) (LRR U)		Redox Depr		3)			ow Dark Surface (TF12)
	ck (A9) (LRR P, T) I Below Dark Surface	(Δ11)	Marl (F10) (Depleted Or		MI RA 1	51)	Uther (Exp	olain in Remarks)
The residence of the contract	rk Surface (A12)	(////	Iron-Mangar	Service and the service of the servi	The service of the last		T) ³ Indicator	rs of hydrophytic vegetation and
	airie Redox (A16) (M	LRA 150A)						hydrology must be present,
	ucky Mineral (S1) (L	RR O, S)	Delta Ochrid				unless	disturbed or problematic.
	leyed Matrix (S4)		Reduced Ve					
	edox (S5)		Piedmont FI				9A) A 149A, 153C, 15	20)
	Matrix (S6) face (S7) (LRR P, S	T 10)	Anomalous	Bright Loai	ily Solis (rzu) (MLKA	1 149A, 153C, 15	30)
	ayer (if observed):	1,0)						
Type:								V
Depth (inc	thes):		_				Hydric Soil Pre	sent? Yes No
Remarks:								



Upland data point wsur007_u facing northeast



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP City/County: Suffork sampling Date: 1/20/16
Applicant/Owner: DDM 10100 State: VA Sampling Point: Wsur 0086
Investigator(s): C. Jacobs, C. Mc Eachern Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Dranage Local relief (concave, convex, none): Concave Slope (%): O-
Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%): O-Subregion (LRR or MLRA): LPRT Lat: 36.73991 Long: -76.69735 Datum: WGS
Soil Map Unit Name: Lynch burg fine Sandy Loam 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 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: Is the Sampled Area within a Wetland? Yes X No Wetland? Yes X No Wetland? Yes X No Wetland? No WAM: Hardwood Flat
HYDROLOGY Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) 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)
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)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No Depth (inches): NA
Water Table Present? Yes No Depth (inches): 3
Saturation Present? Yes X No Depth (inches): 2 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: surface water present in several areas farther in wetland.
surface water present in second with

Control to the latter of the Color of the Co		
1. Liquidanbar styracifina 2. NYSS a Sylvatica	Absolute Bominant Indicator Species? Status Absolute FAC Absolute Dominant Indicator Status Y FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.		Total Number of Dominant Species Across All Strata: [B]
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC:/
6		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8.	26 = Total Cover	OBL species x 1 =
2	= Total Cover	FACW species x 2 =
50% of total cover:	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)	010 11 50-	FACU species x 4 =
1. Ilex opara	20 y FAC	
2. Persea palustris	5 N FACH	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.		
	21 - Tatal Comme	3 - Prevalence Index is ≤3.01
50% of total cover: 15	5 20% of total cover: 6.2	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ×30 H)	20% of total cover. OF SE	
Hero Stratum (Plot size.	12 Y FACW	¹Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea 2. Flex coriacea	THE TOTAL	be present, unless disturbed or problematic.
2. 4 lex corracea	6 Y FACW	Definitions of Four Vegetation Strata:
3. Woodwardia areolata	2 N OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4.		more in diameter at breast height (DBH), regardless of
5.		height.
A TOTAL STREET HIS BEING TO BE SOON TO THE PROPERTY OF THE PRO		
6		Sapling/Shrub – Woody plants, excluding vines, less 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.
10		Woody vine – All woody vines greater than 3.28 ft in height.
11 12		neight.
	20 = Total Cover	
50% of total cover:/ 7	The second secon	
Woody Vine Stratum (Plot size: 30×30 Pt)		
1. None		
A CONTRACTOR OF A SECURE AND A CONTRACTOR OF A CONTRACTOR AND A CONTRACTOR		
2		
3.		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Present? res No
Remarks: (If observed, list morphological adaptations belo	w).	
		Visit in the second of the sec

Profile Des	cription: (Describe t	o the depth i	needed to docum	ent the i	ndicator	or confirm	the absence of in	ndicators.)
Depth	Matrix		Redox Features					
(inches)	Color (moist)		Color (moist)	%	Type'	_Loc ²	<u>Texture</u>	Remarks
0-8	2.543/1	100	1.10				<u> </u>	
8-20	7.5 YR4/2	90 1	-15YR 5/16	10	C	M	SCL	
					1000000			
				2011/2015				
				_	_	-		
(C11) (C12) (C12)							STATES THE	
							2 5.	
	oncentration, D=Deple					ains.		Pore Lining, M=Matrix.
The Section of the Wallet	Indicators: (Applica	ible to all LR						Problematic Hydric Soils ³ :
Histosol			Polyvalue Bel					(A9) (LRR O)
The state of the s	pipedon (A2)		Thin Dark Sur					(A10) (LRR S)
	istic (A3)		Loamy Mucky			0)		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleyer		F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	T III /	Depleted Mat Redox Dark S		6)		(MLRA 1	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Depleted Dark	on in Orden based to the Sub-			The state of the s	t Material (TF2)
	resence (A8) (LRR U)		Redox Depre					ow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (LI		-,		TO COLUMN THE RESIDENCE OF THE PARTY OF THE	lain in Remarks)
	d Below Dark Surface	(A11)	Depleted Och		(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangane		The state of the state of the		T) ³ Indicators	s of hydrophytic vegetation and
	rairie Redox (A16) (M	LRA 150A)	Umbric Surfac					hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric (unless d	disturbed or problematic.
Sandy C	Gleyed Matrix (S4)		Reduced Vert	tic (F18) (MLRA 15	0A, 150B)		
Sandy F	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous B	right Loar	ny Soils (I	20) (MLR	A 149A, 153C, 153	3D)
	rface (S7) (LRR P, S,	T, U)						
Restrictive	Layer (if observed):							
Type:								V
Depth (in	ches):						Hydric Soil Pres	sent? Yes X No No
Remarks:				BANCE	artic auto		Very of a very series	
100								
						Marine Veni	THE RESIDENCE OF	



Wetland data point wsur008f_w facing northeast.



Wetland data point wsur008f_w facing southeast.

	FORM – Atlantic and Guir Coastai Flain Region
Project/Site: 17 CF	City/County: Suffolk Sampling Date: 1/20/16
Applicant/Owner: Dominion	State: VA Sampling Point: Wsur 008_u
Investigator(s): C. Jacobs, C. Mc Eachern	Section, Township, Range: ///
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 0-2
Subregion (LRR or MLRA): LRRT Lat: 36	2, 73988 Long: -76.69762 Datum: WGS
Soil Map Unit Name: Lynchburg fine Sano	ly 10am NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of ye	
	y disturbed? Are "Normal Circumstances" present? Yes No
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? Yes No	Is the Sampled Area
Hydric Soil Present? Yes NoX	within a Wetland? Yes NoX
Wetland Hydrology Present? Yes NoX	
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 (B1	
High Water Table (A2) Marl Deposits (B1)	43.4.4.5.4.4. BESTER STORE TO THE STORE FOR THE STORE
Saturation (A3)	
1 Figure 1: 1 1 1 1 1 1 1 1 1	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	1일이 Hit (Str) 40x4. THE COUNTY HER TO SHELL THE SHELL HER TO HER SHELL HER
	ction in Tilled Soils (C6) Geomorphic Position (D2)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface ☐ Iron Deposits (B5) ☐ Other (Explain in F	you have just 19 10 10 10 10 10 10 10 10 10 10 10 10 10
☐ 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	s): <u>NA</u>
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	s): 720 Wetland Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30 ft)	Children and Arthurst and Arthurst and Company	Dominant Species?		
Tree Stratum (Plot size. 20 / 2 / 1)		Species		Number of Dominant Species 2
1. Quercus alba	15		FACIL	That Are OBL, FACW, or FAC: (A)
2. tinus taeda	12	Y	FAC	
3. Liquidambar Styraciflua	10	N	FAC	Total Number of Dominant
3. Liguidambar Biffacifica	10		FAC	Species Across All Strata: (B)
4.				Beautif Basisant Cassiss ()
5.				Percent of Dominant Species That Are OBL. FACW. or FAC: (A/B)
AND AND ADDRESS OF THE PROPERTY OF THE PARTY				That Are OBL, FACW, or FAC: (A/B)
6	100000000000000000000000000000000000000			Prevalence Index worksheet:
7.				
				Total % Cover of: Multiply by:
8	77			OBL species x 1 =
		= Total Cov		- March Control (1975年 1975年
50%_of total cover: 18.	5 20% of	total cover:	7.4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 X30H)				FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 007801)	17		71	FACU species x 4 =
1. Ilex opaca	15	<u> </u>	FAC	
2. Duercus alba	12	Y	FALL	UPL species x 5 =
L'And to Sheet Char	Q		FAL	Column Totals: (A) (B)
3. Liquidambar Styraciflus			FAC	
4				Prevalence Index = B/A =
				The Control of the Section of the Se
5				Hydrophytic Vegetation Indicators:
6.	120000			1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
		P. 150000	THE STATE OF STREET	
8.				3 - Prevalence Index is ≤3.0 ¹
	35	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 17	5 20% of	total cover	+	Troblemate riyarepriyae vegetaseri (Expani)
	. 0 20 /0 01	total cover.		
Herb Stratum (Plot size: 32 x30ft)	1	.,		¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	6	Y	FACN	be present, unless disturbed or problematic.
2. Ilex opaca	Ц	14	FAL	Definitions of Four Vegetation Strata:
2. 110% 01000		-14	INC	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
				height.
5				Tiolytic.
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.
All the course is the contract of the contract				
10				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
[19] [2] 가는 가는 가는 마음을 열었다는 것들은 사람들이 가득하는 사람들이 되었다.				
12.		200		
	10	= Total Cov	er	
50% of total cover:	—		. /	
JO / O U LULAI COVEL	20% of	total cover:	00	
	20% of	total cover	- 62	
Woody Vine Stratum (Plot size: 30 x30 A)	20% of	total cover	- 62	
	20% of	total cover	- &	
Woody Vine Stratum (Plot size: 30 ×30 ft) 1. None			- 62	
Woody Vine Stratum (Plot size: 30 x30 A)				
Woody Vine Stratum (Plot size: 30 ×30 ft) 1. None				
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2 3				
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2 3 4				
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2 3				Hydrophytic
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2 3 4				Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2		= Total Cov	er	
Woody Vine Stratum (Plot size: 30 x30 ft) 1.			er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1. Nove 2 3 4 5		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation
Woody Vine Stratum (Plot size: 30 x30 ft) 1.		= Total Cov	er	Vegetation

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	Tautum Bamaska
(inches) Color (moist) % Color (moist) % Type Loc 2	
0-4 104R 5/3 100	5 ADVINGOULE STREET
4-20 7.5YR 94 100	_5
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, U	1 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) 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)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	
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) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14)	9A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR.	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	The second section of the second seco
Type:	A
	Hydric Soil Present? Yes No
Type:	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches):	Hydric Soil Present? Yes No X
Type: Depth (inches):	Hydric Soil Present? Yes No X



Upland data point wsur008_u facing northwest



Upland data point wsur008_u facing southwest

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ALP City/C	ounty: Suffolk Sampling Date: 10/11/16
	State: V.A Sampling Point: W5 W8 047£
Investigator(s): ESI-Turnbull, Roper Section	
Landform (hillslope, terrace, etc.): flat Local	
Subregion (LRR or MLRA): L L L T Lat: 36.742	
Soil Map Unit Name: Eunola loamy fine sand	2-6/1 5 10 penWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? You	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ped? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS - Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
(Hurricane Matthew) Heavy rain Oct. 8-9, 2016 NCWAM: Hardwood Flat	within 72hrs. [approx. 11"]
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	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres al	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks	s) 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 No Depth (inches):	VA
Water Table Present? Yes No Depth (inches):	10
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Daniel	
Remarks:	x

TODE IN THE TOTAL OF THE TOTAL	Absolute Descised I		Barriage Test wastabasts
Tree Stratum (Plot size: 30ff x30ff)	Absolute Dominant I % Cover Species?		Dominance Test worksheet:
		FAL	Number of Dominant Species
1. Ilex opaca			That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua			Total Number of Dominant
3. Aver rubrum	50 A	FAC	Species Across All Strata: (B)
4.		199	
			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			
8.			Total % Cover of: Multiply by:
0	leD = Total Cove		OBL species x 1 =
2,			FACW species x 2 =
50% of total cover: 30	20% of total cover:	104	
Sapling/Shrub Stratum (Plot size: 30ff x30ff)			FAC species x 3 =
1. hone			FACU species x 4 =
[1] 2 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1			UPL species x 5 =
2.			Column Totals: (A) (B)
3.		1.10	(A)(D)
4	أعاق الأسواييل وأدني		Prevalence Index = B/A =
5.			
			Hydrophytic Vegetation Indicators:
6			1_Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8		Jan S.	3 - Prevalence Index is ≤3.0¹
	= Total Cove	_	
	= Total Cove		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:		
Herb Stratum (Plot size: 30ff x 30ff)			¹ Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	25 Y	FACW	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			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.			Mark All harbaneous (non woods) plants regardless
			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 5.20 it tall.
10			Woody vine - All woody vines greater than 3.28 ft in
11			height.
12.			The state of the s
12.	7 5		
17 -	Z5 = Total Cove		102
50% of total cover: 12.5	20% of total cover:	5	
Woody Vine Stratum (Plot size: 30ft x30ft)			
1. Smilax rotunditolia	15 Y	FAC	.22
	10	D 10.0	Jr
2. Vitis rotundifolia	10 7	-HC	
3.			
4.			10
5	72		Hydrophytic
	25 = Total Cove	r	Vegetation
50% of total cover: 12.5			Present? Yes No
Remarks: (If observed, list morphological adaptations belo	W).		
= 0			
V .			

Depth						or commi	n the absence o	maioatora	,	
	Matrix		Red	ox Features	- 1	. 7				NA.
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture		Remarks	
0-6	10 YR 2/1	100	0		10		mucky L	<u> </u>		
6-20	10/R4/2	95 1	04/ 5/6			M	5'			
			18 III WILLIAM	7 7 7				10 - 10		
	-									
							X			
¹Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, M	1S=Masked	Sand Gra	ains.	² Location: F	L=Pore Lini	ing, M=Matrix	ζ.
	ndicators: (Applic						Indicators fo			
Histosol	(A1)		Polyvalue B	elow Surfac	e (S8) (L	RR S, T, U	J) 1 cm Mu	ck (A9) (LR	RO)	4
Histic Ep	pipedon (A2)		Thin Dark S					ck (A10) (L		976
Black Hi	stic (A3)		Loamy Muci	ky Mineral (F1) (LRR	0)	Reduced	Vertic (F18	3) (outside N	ILRA 150A,B)
7.5	n Sulfide (A4)		Loamy Gley		F2)			The state of the s		(LRR P, S, T)
	Layers (A5)		Depleted Ma						oamy Soils (F	20)
	Bodies (A6) (LRR P		Redox Dark		Contract of			153B)	(TEO)	
	cky Mineral (A7) (LF esence (A8) (LRR U		Depleted Da Redox Depr					ent Material	Surface (TF1)	2)
	ck (A9) (LRR P, T)	,	Marl (F10) (,,			xplain in Re		-/
100000000000000000000000000000000000000	Below Dark Surfac	e (A11)	Depleted Or		MLRA 15	51)		.,	,	
	rk Surface (A12)		Iron-Mangai				T) ³ Indica	ors of hydro	phytic veget	ation and
	airie Redox (A16) (M		Umbric Surf	ace (F13) (LRR P, T,	, U)			y must be pr	S
	lucky Mineral (S1) (I	.RR O, S)	Delta Ochrid					s disturbed	or problemat	ic.
	leyed Matrix (S4)		Reduced Ve							
	edox (S5) Matrix (S6)		Piedmont FI				19A) A 149A, 153C, 1	153D)		13
100 mm 1 100	face (S7) (LRR P, S	T. UI	Alomaious	Digit Loan	ly dolls (f	-20) (MER	A 143A, 133C,	1330)		
	ayer (if observed):						_			
Type:			_							
Type: Depth (inc	:hes):		_				Hydric Soli P	resent?	Yes	No
	:hes):		_	8 III			Hydric Soli P	resent?	Yes	No
Depth (inc	:hes):			8 III			Hydric Soil P	resent?	Yes	No
Depth (inc	ches):		_				Hydric Soll P	resent?	Yes	No
Depth (inc	ches):	9911 111 107 2 10			1		Hydric Soll P	resent?	Yes	No
Depth (inc	:hes):						Hydric Soll P	resent?	Yes	No
Depth (inc	ches):		_				Hydric Soll P	resent?	Yes	No
Depth (inc	ches):						Hydric Soll P	resent?	Yes	No
Depth (inc		2011 2011 2011 2011 2011 2011 2011 2011					Hydric Soll P	resent?	Yes	No
Depth (inc	ches):		a				Hydric Soll P	resent?	Yes	No
Depth (inc			-	23			Hydric Soll P	resent?	Yes	No
Depth (inc							Hydric Soll P	resent?	Yes	No
Depth (inc							Hydric Soll P	resent?	Yes	No
Depth (inc			2				Hydric Soll P	resent?	Yes	No
Depth (inc			- a				Hydric Soll P	resent?	Yes	No
Depth (inc							Hydric Soll P	resent?	Yes	No
Depth (inc										No
Depth (inc								resent?		No
Depth (inc										No
Depth (inc										No
Depth (inc										No
Depth (inc										No
Depth (inc										No
Depth (inc										No



Wetland data point wsuo047f_w facing north.



Wetland data point wsuo047f_w facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

	City/County: Suffolk Sampling Date: 10/11/16
Applicant/Owner: Dominion	The state of the s
Investigator(s): ESI-Turnbull, Roper	
Landform (hillslope, terrace, etc.): flat	Local relief (concave, convex, none): None Slope (%): 5-31/4
Subregion (LRR or MLRA): L PP T Lat: 36	1.74271 Long: -76. 69498 Datum: W6384
Soil Map Unit Name: Eunola loamy fine	Sand, 2-6'1, SlopeNWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significant	
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.) ng 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	
	rain within 72hrs. [approx. 11"]
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 (B	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	cheres along Living Roots (C3) Dry-Season Water Table (C2) uced Iron (C4) Crayfish Burrows (C8)
4 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	[1] [- 1] [[2.5] [- 1] [
Iron Deposits (B5) Other (Explain in	\$1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
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	
Water Table Present? Yes No Depth (inche	es): <u>320</u>
Saturation Present? Yes No Depth (inche (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
()	
	·
N 11	