

Upland data point wsup022\_u facing north.



Upland data point wsup022\_u facing southwest.

Photo Sheet 3 of 3

n.D	011	y/County: Suffo 1k	Camplin	na Data: 3/29/11/a	
Project/Site: A CP					
Applicant/Owner: Dominion			State: VA Samplir	ng Point: Walde var Tal	
Investigator(s): 5. Bryan, L	. Roper se	ction, Township, Range:	none	5 7	
Landform (hillslope, terrace, etc.):	at Lo	cal relief (concave, convex,	none): None	Slope (%): 0 - 2	
Subregion (LRR or MLRA): LRR	T Lat: 36.72	.556 Long:	76.70645	Datum: W G S 8	
Soil Map Unit Name: Rains	fine sandy lo	06-m	NWI classification:	PFO	
Are climatic / hydrologic conditions on the			(ii iio, explain iii remarks.)	Van I	
Are Vegetation, Soil, or F			Circumstances" present?		
Are Vegetation, Soil, or F	lydrology naturally proble	ematic? (If needed, e	explain any answers in Rer	narks.)	
SUMMARY OF FINDINGS - At	tach site map showing s	ampling point location	ons, transects, impo	rtant features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No No Yes No	Is the Sampled Area within a Wetland?	Yes No	·	
NewAm: Headwater 1	- 				
HYDROLOGY			11.		
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)	
Primary Indicators (minimum of one is	equired; check all that apply)		Surface Soil Cracks (		
Surface Water (A1)	Aquatic Fauna (B13)			Concave Surface (B8)	
High Water Table (A2)	Marl Deposits (B15) (I		Drainage Patterns (B10)		
Saturation (A3)	— Hydrogen Sulfide Odo		Moss Trim Lines (B1		
Water Marks (B1)	Oxidized Rhizosphere		Dry-Season Water Tage Crayfish Burrows (C8)		
Sediment Deposits (B2)	Presence of Reduced		Saturation Visible on		
Drift Deposits (B3)	Recent Iron Reduction Thin Muck Surface (C		Geomorphic Position		
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Rem		Shallow Aquitard (D3		
lpundation Visible on Aerial Image		iamoj	FAC-Neutral Test (D		
Water-Stained Leaves (B9)	,,,		Sphagnum moss (D8	(LRR T, U)	
Field Observations:		or of the second			
Surface Water Present? Yes	No V Depth (inches): _	NA			
Water Table Present? Yes	No Depth (inches): _	6		/	
(includes capillary fringe)	No Depth (inches): _		lydrology Present? Ye	s No	
Describe Recorded Data (stream gaug	e, monitoring well, aerial photos,	previous inspections), if ava	ilable:		
Remarks:					

2.51 2551	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 Cov		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 =
5				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		-		2 - Dominance Test is >50%
8	CI.	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 5	- 10	= Total Cov	7	Problematic Hydrophytic Vegetation¹ (Explain)
	_ 20% of	total cover		
Herb Stratum (Plot size: 30ft x 30ft)	ID	V	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Pinos taeda	10	-1		
2 Rubus argutus	10	1	FIL	Definitions of Four Vegetation Strata:
3	-			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. 5.				more in diameter at breast height (DBH), regardless of height.
6.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7. 8.				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.		-		Woody vine - All woody vines greater than 3.28 ft in
11.	-			height.
12.				
10		= Total Co		
50% of total cover: 10	20% of	total cover	: -7-	
Woody Vine Stratum (Plot size: 30ff x 30ff)			-0.012	
1. Lonilera japonica	15	<u> </u>	FACU	
2. Smilax rotundifolia	10		FAL	
3.				
4.				
5.				Hydrophytic
	25	= Total Co	ver	Vegetation
50% of total cover: 12.	5 20% of	f total cover	. 5	Present? Yes No
		7412024		
50% of total cover: 12.	≤ 20% of	= Total Cor f total cover	_	

Sampling Point:

	cription: (Describe	to the dept				or confirm	n the absence of	indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	2.5 Y 2.5/1	100	Color (Iniciat)	- 10			SCL	6
	10441		10125/6	100	0.	W	5CL	
13-20	10471	_ 85_	10 1K - 10	15	0	17	- JUL _	
				-			<del></del>	
				-				
ITuna: C-C	oncentration, D=De	plation PM-	Peduced Matrix M	S=Masker	d Sand Gr	aine	21 ocation: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless othe	rwise not	ed.)	dirio.		r Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be			RR S, T, L	J) 1 cm Mud	ck (A9) (LRR O)
1 ( The Control of th	pipedon (A2)		Thin Dark S				2 cm Mud	ck (A10) (LRR S)
Black H	istic (A3)		Loamy Much			(0)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)			t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		-6)		Anomalo	us Bright Loamy Soils (F20)
	Bodies (A6) (LRR I ucky Mineral (A7) (L		Redox Dark	Strength Withhall Valley	G043-17 C			ent Material (TF2)
	resence (A8) (LRR		Redox Depr		Maria Caraca			llow Dark Surface (TF12)
10 X 10 - 10 M 17 X 20 II	uck (A9) (LRR P, T)	10.74	Marl (F10) (I				Other (Ex	rplain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Oc				- 3 <sub>1-31-4</sub>	
	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	more was the company of the		, 0,		s disturbed or problematic.
Company of the Compan	Sleyed Matrix (S4)	(Little 0, 0)	Reduced Ve			OA, 150B)		A STATE OF STATE ASSESSMENT
The second of th	Redox (S5)		Piedmont FI	oodplain S	oils (F19)	(MLRA 14	19A)	
Control of the Control of the Control	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	resent les no
Remarks:								
W								
A								



Wetland data point wsuo039f\_w facing west.

Project/Site: ACP	City/County: 5uffolk Sampling Date: 3/29/16
	State: V A Sampling Point: W540039e
Applicant/Owner: Dominion	
Investigator(s): S. Bryan, L. Roper s	Section, Township, Range: NOTE
Landform (hillslope, terrace, etc.): + 10-+ L	ocal relief (concave, convex, none): None Slope (%): 0-1
Subregion (LRR or MLRA): LRRT Lat: 36.	72557 Long: -76.70671 Datum: W6589
Soil Map Unit Name: Rains fine Sundy loav	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	,
Are Vegetation, Soil, or Hydrology significantly of	
Are Vegetation, Soil, or Hydrology naturally prot	
SUMMARY OF FINDINGS – Attach site map showing	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.	0,00,,,00
LIVEROL OCY	
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)	
Saturation (A3) Hydrogen Sulfide Oc	
Sediment Deposits (B2) Presence of Reduce	
2 march 1 march 4 march 2 marc	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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):	NA
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	s, previous inspections), if available:
Remarks:	
The state of the s	
RUE	
	No.
70	

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

Sampling Point: \_\_\_\_

Tree Stratum (Plot size: 30ff x 30ff )  1. None	% COVER		t Indicator	Dominance Test worksheet:
			? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata:3(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
3.				OBL species x 1 =
	0	= Total Co	ver	FACW species x 2 =
50% of total cover:	_ 20% of	total cove	r:	The state of the s
Sapling/Shrub Stratum (Plot size: 30f+ x30f+)				FAC species x 3 =
none				FACU species x 4 =
				UPL species x 5 =
* <del></del> .				Column Totals: (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
·,	-			2 - Dominance Test is >50%
	.0			3 - Prevalence Index is ≤3.01
		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	_ 20% of	total cove	r	
Herb Stratum (Plot size: 30ff x 30ff)			0.	<sup>1</sup> 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
				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
)		1111		of size, and woody plants less than 3.28 ft tall.
10,		1-20		Woody vine - All woody vines greater than 3.28 ft in
11				height.
12.				
	100	= Total Co	ver	
50% of total cover: 50	_ 20% of	total cove	r. 20	
Noody Vine Stratum (Plot size: 30f4 x 30f4)				
. Lonicera japonica	20	Y	FACU	
		-		
	-	5 - C		
		-		
		-		Accessed to the second
5,		-		Hydrophytic
		= Total Co	11	Vegetation Present? Yes No
50% of total cover: 10	_ 20% of	f total cove	r:	Present? Tes No
50 % CI total cover:	N).		V-1	

Depth			moduca to acce		iluicator	or commi	the absence of ir	aloutoro,
A CONTRACT OF THE PARTY OF THE	Matrix			ox Features		12	Tautura	Remarks
(inches)	Color (moist)	- % -	Color (moist)	20	Type'	Loc² M	5CL	Nellans
0-10	10 1 1 3/1	80	018 418				300	
10-20	101K3/1	50	01-11	30	D	M	50	
			104 R 5/8	20	C	M		
			1					
	-				-			
				-				
						-	21 continue DI =	Pore Lining, M=Matrix.
'Type: C=Co	oncentration, D=Dep Indicators: (Applic	letion, RM=R	educed Matrix, N	S=Masked	Sand Gra	ins.		Problematic Hydric Soils <sup>3</sup> :
		able to all Li	Polyvalue B			PPSTI		
Histosol	oipedon (A2)		Thin Dark S					(A10) (LRR S)
Black His	Market Carry Street, Advanced Co.		Loamy Muc					ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley					loodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted M				Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	, T, U)	✓ Redox Dark	Light and the state of the last of the las	-30-		(MLRA 1	
	cky Mineral (A7) (LF		Depleted Da					Material (TF2)
The second secon	esence (A8) (LRR U	)	Redox Dep		B)			w Dark Surface (TF12)
The second secon	ck (A9) (LRR P, T)	- 10445	Marl (F10) (		MIDA	41	Other (Exp	ain in Remarks)
The second state of the second	Below Dark Surface	e (A11)	Depleted On Iron-Manga				T) <sup>3</sup> Indicator	of hydrophytic vegetation and
	ark Surface (A12) rairie Redox (A16) (I	MI RA 150A)	Umbric Sur					hydrology must be present,
All the first the state of the	lucky Mineral (S1) (I	DOMESTIC CONTRACTOR TO	Delta Ochri			,		listurbed or problematic.
	Bleyed Matrix (S4)		Reduced Ve			0A, 150B)		and the second s
	ledox (S5)		Piedmont F					
	Matrix (S6)		Anomalous	Bright Loar	ny Soils (	-20) (MLR	RA 149A, 153C, 153	3D)
	rface (S7) (LRR P, S			The state of	the same		A Later Tourist	
	_ayer (if observed)							
Type:	And the state of t	1 1 mm - m - m	-					sent? Yes / No
Depth (inc	ches):	i mari					Hydric Soil Pre	sent? Yes No
Remarks:								



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, L. Roper	Local relief (concave, convex, none): None Slope (%): 0-2
Landform (hillslope, terrace, etc.): flat	
Subregion (LRR or MLRA): LRRT Lat: 36.	72565 Long: -76,70671 Datum: W6589
Soil Map Unit Name: Rains fine sandy lo	Am NWI classification: NH
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
Agricultural field Assume hydrophytic vegetation Onknown veg. and proble	criterion may be met ematic prevalence index)
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	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide (	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduc	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduc	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
Iron Deposits (B5) Other (Explain in R	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	. (4
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	):
Saturation Present? Yes No Depth (inches (includes capillary fringe)	: >20 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
The state of the s	
*	

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

Samplin	WSU	120
	WSU	
		00012
Dominance Test worksheet:		
Number of Dominant Species That Are OBL, FACW, or FAC: _	1	_ (A)
Fotal Number of Dominant Species Across All Strata:	2	_ (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	50	_ (A/B)
Prevalence Index worksheet:		
Total % Cover of:  OBL species	Multiply by:	.0
FACW species x 2	-	
AC species 50 x3	100	
	= 220/1	40
JPL species x 5	1	
Column Totals: 105 (A)		D(B)
Prevalence Index = B/A = _	3.5/2.	9
Hydrophytic Vegetation Indicate		
1 - Rapid Test for Hydrophytic		
2 - Dominance Test is >50%	or is Table and the	
3 - Prevalence Index is ≤3.01		
Problematic Hydrophytic Vege	etation1 (Exp	lain)
Indicators of hydric soil and wetla be present, unless disturbed or pro	nd hydrology oblematic.	must
Definitions of Four Vegetation S	Strata:	
Free – Woody plants, excluding vi nore in diameter at breast height neight.	ines, 3 in. (7. (DBH), regar	6 cm) or dless of
Sapling/Shrub – Woody plants, e han 3 in. DBH and greater than 3	xcluding vine .28 ft (1 m) to	es, less all.
Herb – All herbaceous (non-wood f size, and woody plants less tha	y) plants, reg n 3.28 ft tall.	gardless
<b>Woody vine</b> – All woody vines groneight.	eater than 3,	28 ft in
Hydrophytic		
Vegetation		
Present? Yes	No	
nytic veg. criterion	may k	emel

	50% of total cover: _	20% of total cov	/er:		
Remarks: (If observed, list mo	rphological adaptations	below). Assume	hydrophytics	veg. criterion me	ay be med
tallow as	tield, 1	maniedo	TURE DE		
solidago sp.	and ci	rsium sp	. mowed a	nd unknow	fter
solidago sp. unable to d Drevalence	etermine	presence	of hydrop	hytic veg.	

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

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the i		or confirm		of indicators )
		Mark the Section of t	il lieeded to doca	mone eno	naicator	or committee	the absence	of mulcators.)
Depth	Matrix		Rede	ox Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks
0-14	2.543/1	100					SC	
_			1 A III			- A A	10	The state of the s
14-20	2.5441	80	104246	20	0	M	50	
_	-							
				1				
-			The second second	201-11-				
				-				
							21 anations	PL=Pore Lining, M=Matrix.
Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	is=Masked	Sand Gra	ins.		for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil	indicators: (Applic	able to all I						
Histosol	(A1)		Polyvalue B				TARREST CONTRACTOR OF THE PARTY	uck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	r, U)		luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucl	ky Mineral (	F1) (LRR	0)		ed Vertic (F18) (outside MLRA 150A,B)
at The Control of the	n Sulfide (A4)		Loamy Gley	ed Matrix (	F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma				Anoma	lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)		(MLF	(A 153B)
and the second second second second	cky Mineral (A7) (LF	Section of the second section is	Depleted Da				1 150,7,000,000	arent Material (TF2)
	esence (A8) (LRR U		Redox Depr					hallow Dark Surface (TF12)
to the second se		,	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	0	
	Below Dark Surfac	e (ATT)					T) 3India	ators of hydrophytic vegetation and
	ark Surface (A12)		Iron-Mangar					and hydrology must be present,
	rairie Redox (A16) (1					U)		ess disturbed or problematic.
	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric				unie	ess disturbed of problematic.
	Sleyed Matrix (S4)		Reduced Ve				1.0	
Sandy R	edox (S5)		Piedmont FI					
Stripped	Matrix (S6)		Anomalous	Bright Loar	ny Soils (F	20) (MLR	A 149A, 153C	, 153D)
Dark Su	rface (S7) (LRR P, S	T III						
Dain ou	inde (er) (ereici)	3, 1, 0)		The state of the state of			At the second second	
	ayer (if observed)							
Restrictive I								,
Restrictive I	ayer (if observed)						Hydric Soil	Present? Yes V
Restrictive I Type: Depth (inc							Hydric Soil	Present? Yes No
Restrictive I	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)		_				Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Restrictive I Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No No
Type: Depth (inc	ayer (if observed)						Hydric Soil	Present? Yes No



Upland data point wsuo039\_u facing north.



Upland data point wsuo039\_u facing east.

Project/Site: ACP City	//County: Suffolk Sampling Date: 12/16/15
Applicant/Owner: Dominido	State: VA Sampling Point: WSup 0275
Investigator(s): ESI-J. Harbour, K. Mulfuren se	etion Township Range: N.A.
investigation(s).	cal relief (concave, convex, none): CONCAVE Slope (%): 6-2
Landrorm (nilislope, terrace, etc.):	467 Long: 76.70150 Datum: W65
Soil Map Unit Name: Eunula luamy Fine Sond, 0-2	4 Classes PSS
- 1982   14   1985   19	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
Recent clearcut	
LIVERSIAN	
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)
Sufface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)  RR U) Drainage Patterns (B10)
High Water Table (A2) Marl Deposits (B15) (L	
Saturation (A3) Hydrogen Sulfide Odo	
Water Marks (B1) Oxidized Rhizosphere	
Sediment Deposits (B2) Presence of Reduced	
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rem 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): _	2"
Water Table Present? Yes No Depth (inches):	611
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	provious inspections) if available:
Describe Recorded Data (stream gauge, monitoring went, aenai priotos,	nevious inspections), il available.
Remarks:	
Recent Clearcut, Habitat disturba	re minimal vegetating
KECENT CIEDVEDITY, HUDITON (1151011 201	Ley

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

206182181		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 305+ K305+)  1. None Plesent	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover:	20% of	total cover		FAC species x3 =
Sapling/Shrub Stratum (Plot size: 3084 K3084)	-	1	FAC	FACU species x 4 =
1. Acer rubram		<u>Y</u>	FAC	UPL species x 5 =
2				Column Totals: (A) (B)
3				Colonia Totals (7) (9)
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
2 (		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2 - 5	20% of	total cover		
Herb Stratum (Plot size: 308+X308-4)	20	/	TAGUL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Arundinavia gigontea	30	1	FACW	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				
	30_	= Total Cov	/er	
50% of total cover:	20% of	total cover	6	
Woody Vine Stratum (Plot size: 30F4X30F4)				
1. None Present				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).			

	Matrix		needed to docum	Features			ino absono	05-03-05 130,000-04 100,900-05 <b>5</b> 0
Depth (inches)	Color (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-6	104R2/1	100					SL	Marcky mineral
6-10	104R3/2	95	04R3/4	<	C.	$\sim$	SL	
	104R4/1	93	04R4/4	5		M	<1	
10-20	1991471	1)	041		_		-	
							2	5. 5. 11 to 14 Modelin
	concentration, D=Depl					ins.		: PL=Pore Lining, M=Matrix. s for Problematic Hydric Solis <sup>3</sup> :
	Indicators: (Applica	able to all L						
Histoso			Polyvalue Beld					Muck (A9) (LRR O) Muck (A10) (LRR S)
	pipedon (A2)		Thin Dark Surf					ced Vertic (F18) (outside MLRA 150A,B)
	listic (A3) en Sulfide (A4)		Loamy Gleyed			0,		nont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matr		-/			nalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T. U)	Redox Dark S		6)			.RA 153B)
	ucky Mineral (A7) (LR		Depleted Dark		,			Parent Material (TF2)
	resence (A8) (LRR U		Redox Depres	sions (F8	3)			Shallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (LF				Other	(Explain in Remarks)
-	d Below Dark Surface	e (A11)	Depleted Och				. 3	
	ark Surface (A12)		Iron-Mangane					icators of hydrophytic vegetation and
	Prairie Redox (A16) (N					U)		etland hydrology must be present, less disturbed or problematic.
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric (I Reduced Verti	5.00		0A 450B)	un	mess disturbed of problematic.
	Gleyed Matrix (S4) Redox (S5)		Piedmont Floo				(A)	
	d Matrix (S6)		Anomalous Br					C, 153D)
	urface (S7) (LRR P, S	. T. U)	_		., (-		750	
	Layer (If observed):							
Type:	17 to 10							
	nches):						Hydric So	Il Present? Yes No
Remarks:								
Nemarks.								



Wetland data point wsup027s\_w facing north.



Wetland data point wsup027s\_w facing northwest.

Project/Site: ACP	City/County: Suffolk Sampling Date: 2/9/16
Applicant/Owner: DOMINION	State VII Sampling Form. 4500
Investigator(s): L. Roper, M. Smith	Section, Township, Range: NONE
Landform (hillslope, terrace, etc.): + (A.T.	Local relief (concave, convex, none): none Slope (%): D-3/
Subrecion (LBB of MLBA) LFFT Lat 36	72990 Long: - 76.70455 Datum: W6584
Soil Man Unit Name: Lynchhuca fine, Sondy	10am NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	1일에서 보고 있는 1일을 살았다. 그는 그는 그는 이번 사람들은 이번 사용을 가면 하게 된 바람들이 하는데 이번 사용을 하게 되었다. 그는 그를 하는데 없는데 보고 있는데 그렇게 되었다. 그렇게 다 그 때문
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	Is the Sampled Area
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)	Sparsely Vegetated Concave Surface (B8)  5) (LRR U)  Odor (C1)  heres along Living Roots (C3)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Other (Explain in I	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
X Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Yes No Depth (inchest)  Yes No Depth (inchest)	s): <u>[D</u>
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photography)	
Describe Recorded Data (Stream gauge, monitoring Well, defiat pro-	
Remarks:	
portions of wetland in	nundated

2-01 2-01	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: (A)
2. ALL rubrum	20	Y	FAC	
2. Trovale - deportations	-6	1	FACU	Total Number of Dominant
3. Liriodendron tulipitera			THO	Species Across All Strata:(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7.	100 Telephone			Total % Cover of: Multiply by:
8.	77		THE STATE OF THE STATE OF	OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover: 15	20% of	total cover	_ 0_	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FACU species x 4 =
1. Alex rubrum	20	7	FAC	
2. Magnolia Virginiana	10	N	FACW	UPL species x 5 =
3. IRX DAMA	20	Y	FAC	Column Totals: (A) (B)
4. Quescios niaro	ID	N	FAL	Prevalence Index = B/A =
5. Arulia spinosa	10	N	FAC	SECT BOST OF STANDARD AND AND AND AND AND AND AND AND AND AN
6. Liguidambar styracifles	10	N	FAC	Hydrophytic Vegetation Indicators:
	70	Y	FAC	1 - Rapid Test for Hydrophytic Vegetation
7. Symplocos tinutoria	-20		1710	2 - Dominance Test is >50%
8. manufacture de la companya del companya de la companya del companya de la comp	100	The states are say	September 20	3 - Prevalence Index is ≤3.01
En	100	= Total Cov	rer	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 50	20% of	total cover	20	
Herb Stratum (Plot size: 30ff x 30ff )	-	V	cn.	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Rubus argutus	20	Y	FAC	be present, unless disturbed or problematic.
2 Arunzindria gigantea	50	<u>y</u>	FACW	Definitions of Four Vegetation Strata:
3.	THE ME		the second second	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4.				more in diameter at breast height (DBH), regardless of
5.				height.
1.7% ( a trace a a program of the companies to the program of the companies of the companie			TO THE STATE OF THE STATE OF	Sapling/Shrub – Woody plants, excluding vines, less
6.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7.				
8.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9.				or size, and woody plants less than 5.20 it tail.
10	2010 9010		Carlo teleforado	Woody vine - All woody vines greater than 3.28 ft in
11.	- ALTERNATION			height.
12.		August States		
	70	= Total Cov	rer	And the state of t
50% of total cover: 35	20% of	total cover	14	
Woody Vine Stratum (Plot size: 30f+ x30f+)				
1. Smilax rotundifolia	80	Y	FAC	
2.				
3.	ART ST	122110101		
4.				
5.	20	SAMPLE OF TAXABLE	EST 2457 C7	Hydrophytic
110		= Total Cov		Vegetation
50% of total cover: 40	20% of	total cover	: 10	
Remarks: (If observed, list morphological adaptations belo	w).	E POLIT		

	needed to docu	ment tue i	ndicator	rconnin	n the absence of in	1410415151
Depth Matrix	Redo	ox Feature	5			Remarks
(inches) Color (moist) %	Color (moist)	%	Type'	Loc²	fine SL	Nemans
0-8 10462/1 100	1071				the contract of the contract o	
B-11 10 YR 1/2 80	10 YK /10	20			<u> 5CL</u> _	
11-20 1048 5/2 80	104K3/6	20	C	M	SCL	The state of the s
The state of the s						
	3 - 4 4 Makeley M	C-Markar	Cand Cr	Inc	2l ocation: Pl =	Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=I Hydric Soil Indicators: (Applicable to all L	RRs. unless othe	rwise not	ed.)		Indicators for	Problematic Hydric Solis <sup>3</sup> :
Histosol (A1)	Polyvalue B			RR S. T.		######################################
Histic Epipedon (A2)	Thin Dark S				2 cm Muck	(A10) (LRR S)
Black Histic (A3)	Loamy Much	THE SHARE THE PROPERTY OF THE PARTY OF THE P		0)	Reduced V	ertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gley		F2)			Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Ma		c)		Anomalous	Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Depleted Da					t Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depr				Very Shall	ow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (				Other (Exp	lain in Remarks)
∠ Depleted Below Dark Surface (A11)	Depleted Oc				a = Stadiostor	s of hydrophytic vegetation and
Thick Dark Surface (A12)	Iron-Mangar Umbric Surf					hydrology must be present,
Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochrid			٥,		disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ve			DA, 150B	3)	
Sandy Redox (S5)	Piedmont FI	oodplain S	oils (F19)	(MLRA 1	49A)	
Stripped Matrix (S6)	Anomalous	Bright Loai	ny Soils (F	20) (MLI	RA 149A, 153C, 15	3D)
Dark Surface (S7) (LRR P, S, T, U)					AS A SECURE OF SECURE	
Restrictive Layer (if observed):						
Type:					Hydric Soll Pre	sent? Yes X No
Depth (inches):	The second second second				TO THE STATE OF TH	Security of the second
Remarks:						



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 fringe)	
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.

2 161 1/2/161	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 <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 F+ X 30 F+)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	10 / 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: 308+1808+1)		
1. None Present		
_		
3		
4		
5	O = Total Cover	Hydrophytic
50% of total cover:		Vegetation   Present?   Yes No
Remarks: (If observed, list morphological adaptations belo		
Remarks. (II observed, list fild pridiogical adaptations belo	W).	
RECENT CHEORCUT		

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
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=	Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherw		Indicators for Problematic Hydric Soils <sup>3</sup> :
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)	<sup>3</sup> 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	. S	ampling Date: 219116
Applicant/Owner: Pominion	Only it	Soundy.	State: VA S	ampling Point: W5~ p027_ w
Investigator(s): Likoper, Mismith	0 54	an Taumahin Dannas V	none	ampling i dint.
Landform (hillslope, terrace, etc.): flat				Sinna (0(), D=3'/.
Subregion (LRR or MLRA): LRR T	Loca	relief (concave, convex, r	none): 110110	2 Slope (%): USAU
Subregion (LRR or MLRA):	Lat: 30,74	_ 100 Long: _	16. 1071	Datum: Woody
Soil Map Unit Name: Lynchburg fire	sondy 100	LM.	NWI classification	on: NH
Are climatic / hydrologic conditions on the site typical	I for this time of year?			
Are Vegetation, Soil, or Hydrology _	significantly distu	rbed? Are "Normal	Circumstances" pres	sent? Yes X No
Are Vegetation, Soil, or Hydrology _	naturally problem	atic? (If needed, ex	xplain any answers i	n Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing sar	npling point location	ns, transects, i	mportant features, etc.
Hydrophytic Vegetation Present? Yes X	No			
Hydric Soil Present? Yes	No X	Is the Sampled Area		No X
Wetland Hydrology Present? Yes	No X	within a Wetland?	Yes	No /
Remarks:				Manager Track of the Manager
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicator	s (minimum of two required)
Primary Indicators (minimum of one is required; ch	eck all that apply)		Surface Soil Cra	acks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Veget	ated Concave Surface (B8)
	Marl Deposits (B15) (LR		Drainage Patter	스로마 듀바람이저는 그는 그는 사이를 보고 있다.
[10] - Daniel (1995) 2 (1905) 20 (1905) (1905) [10] [10]	Hydrogen Sulfide Odor (		Moss Trim Line	
	Oxidized Rhizospheres	트레네. 구요 이 경기를 받는 이렇게 되었다. 그렇게 되었다.	Dry-Season Wa	
[1]	Presence of Reduced Iro Recent Iron Reduction in		Crayfish Burrow	le on Aerial Imagery (C9)
	Thin Muck Surface (C7)	Timed Sons (CO)	Geomorphic Po	
P	Other (Explain in Remar	ks)	Shallow Aquitar	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Te	
Water-Stained Leaves (B9)			Sphagnum mos	s (D8) (LRR T, U)
Field Observations:		010		
	Depth (inches):			
	Depth (inches):	16		Yes No X
Saturation Present? Yes No No	Depth (inches):	Wetland H	ydrology Present?	Yes No /
Describe Recorded Data (stream gauge, monitorin	ig well, aerial photos, pro	evious inspections), if avai	lable:	
			Market III ya s	
Remarks:				
				X
				made the standard
			The second secon	

,,	Ab1-4-	Deminent	Indiantes	D-wisses Test weeksheets
Tree Stratum (Plot size: 30f+ x30f+)		Dominant Species?		Dominance Test worksheet:
1. Liquidombar styraciflua	20	V	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
		<del>-</del>	FACU	That Are OBL, FACW, or FAC:(A)
2. Quereus falcuta	10		FACU	Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6.				Prevalence Index worksheet:
7.				
8.				Total % Cover of: Multiply by:
	30	= Total Cov	/er	OBL species x 1 =
50% of total cover: 15		total cover		FACW species x 2 =
	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)	-		= 10.	FACU species x 4 =
1. Liquidumbar Styraciflua	25	1	FAC	
2. Hier rubrum	25	Y	FAC	UPL species x 5 =
3. Rhus copillinum	5	N	UPL	Column Totals: (A) (B)
The state of the s	15	N	FAL	
4. Ilex opara		7/	_	Prevalence Index = B/A =
5. Symplocos tructoria	15	IA	FAC	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
	EXT HOL	100 1100		
8		-		3 - Prevalence Index is ≤3.01
The state of the s		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 42	5 20% of	total cover	: 17	
Herb Stratum (Plot size: 30ff x 30ff )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	30	V	FAL.	be present, unless disturbed or problematic.
	77	-V	mh 11	The state of the s
2. Arindmatia gigantea	20		FAUN	Definitions of Four Vegetation Strata:
3.			13.4	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				
	50	= Total Cov	/er	
50% of total cover: 25		total cover		
25 Class 25	20% 01	total cover		
Woody Vine Stratum (Plot size: 30ff x 30ff)	m.	V	mv11	Nº 1
1. Smilax rotundifolia	80	7	1HU	
2.				
	A. C.			
3			100	
4				So. 5
5		440		Hydrophytic
	80	= Total Co	/er	Vegetation
50% of total cover: 40		total cover	- 1	Present? Yes X No
		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			

Profile Desc	inhtibil. (Describe	to the dept	n needed to docun	nent the	indicator	or confirm	n the absence o	of indicators.)	
Depth	Matrix	%	Redox Color (moist)	x Feature %		Loc <sup>2</sup>	Texture_	Remark	48
(inches)	Color (moist)	100	Color (moist)	70	Type	LOC	Fine SL	Keman	/2
3-6	104R3/2	50			70.000		FineSL		
3 0	1016 16	50	1030			200	FINESL		
6-16	2.57 5/4			-	-		£1 (1		
		95	1540 W.	5		PL	fine SL SCL		
16-20	2.575/4	15	104R46				301		
				-		_			
									- <u>- 1663 </u>
	oncentration, D=Dep Indicators: (Applications)					ains.	Location: I	PL=Pore Lining, M=M for Problematic Hyd	latrix.
Histosol	사람들은 생각하면 보다 보다를 하였다.	able to all t	Polyvalue Be			RRSTI		uck (A9) (LRR O)	ne dona .
	oipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	
Black Hi			Loamy Mucky	y Mineral	(F1) (LRR			ed Vertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		(F2)			nt Floodplain Soils (F	
	Layers (A5) Bodies (A6) (LRR P,	T 10	Depleted Mat		6)			lous Bright Loamy So A 153B)	iis (F2U)
	icky Mineral (A7) (LF		Depleted Dar	market backets to the	to the second second			rent Material (TF2)	
	esence (A8) (LRR U		Redox Depre					nallow Dark Surface (	TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (E	Explain in Remarks)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Och			A STATE OF THE PARTY OF THE PARTY	T) <sup>3</sup> Indica	ators of hydrophytic ve	egetation and
	rairie Redox (A16) (N	ILRA 150A						and hydrology must b	
	lucky Mineral (S1) (L		Delta Ochric					ss disturbed or proble	
	Sleyed Matrix (S4)		Reduced Ver						
	ledox (S5) Matrix (S6)		Piedmont Flo					453D)	
I Suipped	Matrix (30)		I Allullialuus L						
Dark Su		. T. U)		night Loa	my Solls (I	-20) (MLF	RA 149A, 153C,	1530)	
	rface (S7) (LRR P, S Layer (if observed):			ingiit Loa	my Solis (i	-20) (MLF	(A 149A, 153C,	1530)	
Restrictive I	rface (S7) (LRR P, S Layer (if observed):			ingin Loa	my Solls (I	-20) (MLF			V
Restrictive I	rface (S7) (LRR P, S			mgnt Loa	my Solis (i	-20) (MLF		Present? Yes	No_ <u>X</u>
Restrictive I	rface (S7) (LRR P, S Layer (if observed):			might Loa	my Solis (i	-20) (MLF			No <u>X</u>
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingrit Loa	my Solis (i	-20) (MLF			No_ <u>X</u>
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingrit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingrit Loa	my Solis (i	-20) (MLF			No <u>X</u>
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingiit Loa	my Solis (i	-20) (MLF			No_ <u>X</u>
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			mgiit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			mgiit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			mgiit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingii Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingii Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingiit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingiit Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingii Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingii Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):			ingii Loa	my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X
Restrictive I Type: Depth (inc	rface (S7) (LRR P, S Layer (if observed):				my Solis (i	-20) (MLF			No X



Upland data point wsup027\_u2 facing northeast.



Upland data point wsup027\_u2 facing southeast.

Photo Sheet 2 of 2

Project/Site: ACP	City/County: 54f	folk	Sampling Date: \2/16/15
Applicant/Owner: Oominion	Sity/County:	State: V A	Sampling Point: WSup 0285-W
Investigator(s): EST-J. (taradur, 10. murparey		State: 071	Sampling Point.
			11-2
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, co	onvex, none): CONC	Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36,7		.cng: <u>-/6-/00</u> 2	2 Datum: W658
Soil Map Unit Name: Lynchburg Fine Sand Idas	n	NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for this time of year	ir? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly of		Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology naturally prot		eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing		•	
II. deschafe Versteller Bressell			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No No	Is the Sampled	Area	
Wetland Hydrology Present? Yes No	within a Wetland	d? Yes	No
Remarks:			
RECENT CLEARCH			
KECELL CLEAR DOLL			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	)		etated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15)		Drainage Pat	
Saturation (A3) Hydrogen Sulfide Oc		Moss Trim Li	
Water Marks (B1) Oxidized Rhizospher	res along Living Roots		Vater Table (C2)
Sediment Deposits (B2) Presence of Reduce	d Iron (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3) Recent Iron Reduction	on in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (	C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Other (Explain in Re	marks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:	011		
Surface Water Present? YesNo Depth (inches):	211		
Water Table Present? Yes No Depth (inches):	111		
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	SAY PACE Wet	land Hydrology Presen	1? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections),	, if available:	
20 20 10			
Remarks:			
			1
			1

#### 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 3		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 A e OBE, FACW, & 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 =
Souling Obest Charles (District 20 A V2 VE)	20% of total cover	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 3057 X3057)  1. ACEV VULVUM	5 Y FAC	FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3		
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
2 9	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 3087 X3084)  1. Arundinaria gigantea	20 Y FACW	<sup>1</sup> 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.		Herb – All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		
11		Woody vine – All woody vines greater than 3.28 ft in height.
12.		neight.
12.	20 = Total Cover	
50% of total cover: _(O	20% of total cover:	77
Woody Vine Stratum (Plot size: 30 84 x 30 84	20% or total cover	
1. Done Present		
2		
3		
4		
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	Pleseitt 165
Remarks: (If observed, list morphological adaptations below	w).	
0 - 1 212255514		5
Recent Clearcut		

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc Texture Remarks	
L (inches) Color (moist) % Color (moist) % Type Loc* Texture Remarks	
(Inches) Coo (Indist) // Coo (Indist)	co 1
0-3 104R2/1 SL MUCKY Mine	101
3-20 104R5/1 90 104R4/6 10 CM SL	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.	11-3.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric So	115 .
Histosol (A1)  Polyvalue Below Surface (S8) (LRR S, T, U)  1 cm Muck (A9) (LRR O)	
Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR S, T, U)  2 cm Muck (A10) (LRR S)	DA 4504 B)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside Mi	
Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (	
Stratified Layers (A5)  Organic Bodies (A6) (LRR P. T. U)  Redox Dark Surface (F6)  (MLRA 153B)	.0)
Muck Presence (AB) (LRR U) Redox Depressions (FO) Very Sittation Bath Control (FT) Nari (F10) (LRR U) Other (Explain in Remarks)	
Depleted Below Dark Surface (A11)  Depleted Delow Dark Surface (A11)  Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegeta	tion and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be pre	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problemation	<b>:</b> .
Sandy Gleyed Matrix (S4)  Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 149A)	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type:	No
Depth (inches): Hydric Soil Present? Yes	МО
Remarks:	



Wetland data point wsup028s\_w facing north.



Wetland data point wsup028s\_w facing northeast.

1 5 GOLG 15 HILLS
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 8
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 Sampled Area Hydric Soil Present? Yes No
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)  Water-Stained Leaves (B9)  Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations:
Surface Water Present? YesNo Depth (inches): _NA
Water Table Present? YesNo Depth (inches): \_\2\'\
Saturation Present? Yes No Depth (inches): 21 Wetland Hydrology Present? Yes No No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
remarks.

201112051			t Indicator	Dominance Test worksheet:
1. Pinus taca	% Cover 50	1/	? Status FAC	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 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	<sup>1</sup> 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 eveluding vines 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				
0.1	TO	= Total Co	ver	
50% of total cover: 2Δ	20% of	total cove	r:	
Woody Vine Stratum (Plot size:)	17		T	Α
1. Smilax ruturdisolla	10	7	FAC	
2				
3				
4				
5				Hydrophytic
	10	= Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	r: 2	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			
1				

Profile Description: (Describe to the depth needed to document the indicator or confirm	I tile absence of mulcators.
Depth Matrix Redox Features	Tout and Demonto
(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
	2 Description District Management
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solis <sup>3</sup> :
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) <sup>3</sup> 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	133779771
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):	
Restrictive Layer (if observed):  Type:	
	Hydric Soli Present? Yes No
Type:	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? YesNo
Type: Depth (inches):	Hydric Soli Present? YesNo
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soli Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No
Type: Depth (inches):	Hydric Soll Present? Yes No



Wetland data point wsup028f\_w facing north.



Wetland data point wsup028f\_w facing northeast.

Project/Site: ACP City/O	County: SUSSUIC Sampling Date: 12/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: WSup 028.
Investigator(s): EST-J. Harbour, K. Murphrey Section	Tourskin Bosses NA
investigation(s). For one of the second	on, Township, Range:
Landform (hillslope, terrace, etc.): Flat Local	relief (concave, convex, none): 7 100 Slope (%).
Subregion (LRR or MLRA): LRR T 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	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	100 000 000 000 000 000 000 000 000 000
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? YesNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a wetland? YesNo
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 at Presence of Reduced Iron	
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 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):	<u>A</u>
Water Table Present? YesNo Depth (inches):	2
Saturation Present? Yes No Depth (inches): 8	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous provides and provides are provided by the provided by the provides are provided by the prov	vious inspections) if available:
Describe Necorded Data (Stream gauge, monitoring Well, denai photos, pre-	vious inspections), il available.
Remarks:	
la distribution distributions and	marinal desclotion
Recent clearcut, Hobitat disturbance	mimimal vegetation
,	

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 3				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				Total % Cover of: Multiply by:
8				
	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
	:	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (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	4	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6.				
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 5.20 it tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	10			
<	10 =	Total Co	ver	
50% of total cover:5	20% of	total cover		
Woody Vine Stratum (Plot size: 30Ft X 30Ff )				
1. Nune Plesent				
2				
3				
4				
5			Sometiment and the second	Hydrophytic
	0 .	Total Co	/er	Vegetation
50% of total cover:				Present? Yes No
Remarks: (If observed, list morphological adaptations below	v).			
RECENT CLEAVEUT				
West Land Cold				

Profile Description: (Describe t	o the depth need				or confirm	the absence	of indicator	s.)	
Depth Matrix	94		Features %	Type	Loc²	Texture		Remarks	
(inches) Color (moist) (-4 104R4/2		or (moist)	<u>%</u> -	Type	LOC	1 <		Homans	
0 1 1 1 1 1 1 1	150					<u></u>			
4-8 104R3/3	100					<u>L</u> >			
4-20 106R4/4	150					51			
						100			
							-		
<sup>1</sup> Type: C=Concentration, D=Depl	etion, RM=Reduc	ed Matrix, MS	=Masked 8	Sand Gra	ains.			ning, M=Matrix	
Hydric Soil Indicators: (Applica	ble to all LRRs,	unless otherv	vise note	d.)		Indicators	for Problen	natic Hydric S	oils <sup>3</sup> :
Histosol (A1)		Polyvalue Beld	ow Surface	e (S8) (L	RR S, T, U	) 1 cm M	uck (A9) (L	RR O)	
Histic Epipedon (A2)		Thin Dark Sur	face (S9) (	LRR S,	T, U)		uck (A10) (I		
Black Histic (A3)		Loamy Mucky			0)			8) (outside M	
Hydrogen Sulfide (A4)		Loamy Gleyed		2)				n Soils (F19) (	
Stratified Layers (A5)		Depleted Matr Redox Dark S		: )			A 153B)	oamy Soils (F	20)
<ul><li>Organic Bodies (A6) (LRR P,</li><li>5 cm Mucky Mineral (A7) (LR</li></ul>		Depleted Dark		1000000			rent Materia	ıl (TF2)	
S cm Mucky Mineral (A7) (LR Muck Presence (A8) (LRR U)		Redox Depres						Surface (TF12	)
1 cm Muck (A9) (LRR P, T)		Marl (F10) (LF		,			Explain in R		170
Depleted Below Dark Surface	(A11)	Depleted Och	ric (F11) (1	MLRA 15	51)				
Thick Dark Surface (A12)	2.500 A E.5 1190 A 190 M. L. C. C. C.	Iron-Mangane						rophytic vegeta	
Coast Prairie Redox (A16) (M		Umbric Surfac	0.00		, U)			gy must be pre	
Sandy Mucky Mineral (S1) (L		Delta Ochric (			0.5 4500\		ss disturbed	d or problemati	C.
Sandy Gleyed Matrix (S4)		Reduced Verti Piedmont Floo							
Sandy Redox (S5) Stripped Matrix (S6)						A 149A, 153C,	153D)		
Dark Surface (S7) (LRR P, S		, 1101111111111111111111111111111111111		, (.		, ,			
Restrictive Layer (If observed):	, , _ ,								
Туре:									1/
Depth (inches):						Hydric Soll	Present?	Yes	No
Remarks:							1371-15-W <sub>1</sub> 970-150		
1									



Upland data point wsup028\_u facing southeast.



Upland data point wsup028\_u facing southwest.

Project/Site: ACP City/County: SUF	Sampling Date: 12/16/15
Applicant/Owner: Dominion	State: VA Sampling Point: WSUP 029f.w
Investigator(s): ESI-J. Harbour, K. Murphrey Section, Township, Ra	014
Investigator(s): Section, Township, Ra	ange. 14.
Landform (hillslope, terrace, etc.): Drainoge Nos Local relief (concave,	convex, none): CONCOVE Slope (%):
Subregion (LRR or MLRA): LRRT Lat: 36.73820	Long: 16.69875 Datum: W6584
Soil Map Unit Name: Rains fine sones 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	"Normal Circumstances" present? Yes No
	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled No Within a Watta	
Hydric Soil Present?  Yes No within a Wetlan Wetland Hydrology Present?  Yes No within a Wetlan	nd? Yes No
Remarks:	
Torraine.	
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 Root	s (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? YesNo Depth (inches):	
Water Table Present? Yes No Depth (inches): (21)	
Saturation Present? Yes V No Depth (inches): 6 " W (includes capillary fringe)	etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Remarks:	

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

VEGETATION (1 out official)	A1 - 1 - 1	5		Dominance Test worksheet:
Tree Stratum (Plot size: 308+ X308+)			Indicator	Dominance lest worksheet.
			2 Status	Number of Dominant Species
1. Pinus taeda	20	<u> </u>	FAC	That Are OBL, FACW, or FAC:(A)
2		1		11
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5				That Are OBL, FACW, or FAC:
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				OBL species x 1 =
	50	= Total Co	ver	
50% of total cover: 25	200/ -4	I total acus	- 10	FACW species x 2 =
50% bitdai cover. 2	20% 0	total cove		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+ X308+)				
1. Ilex opaca	20	4	FAC	FACU species x 4 =
	40	1/	FACE	UPL species x 5 =
2. Iler glabra		7		Column Totals: (A) (B)
3. Pinus tarda	5	N	FAC	Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				A - Panid Test for Hydrophytic Vacatation
1				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	<u> </u>	<u></u>		3 - Prevalence Index is ≤3.01
	65	= Total Co	A/OF	
27 6		-   Wal CC	13	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>32.5</u>	20% of	total cove	r: _ \	
Herb Stratum (Plot size: 308+ X308+)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
AVARAGRACIA DIDAGLER	20	V	FACW	be present, unless disturbed or problematic.
1. Arundinaria giganteo	00	-	1710	
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		TEN AND DESCRIPTION		height.
				Santing (Should Misself Plants evaluating vines less
6		-		Sapting/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
B				Herb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.20 it tail.
10				Woody vine - All woody vines greater than 3.28 ft in
				height.
11				neight.
12				
10 1844 Parintal Parintal Control Cont	20	= Total Co	ver /	
E00/ -41-4-1 1/1		total cove	4	
50% of total cover:	20% 01	total cove	-	
Woody Vine Stratum (Plot size: 30F+ X30F+	_	^		
1. Smilax bunanux	2	MA	FAC	
2				
3.				
		*	7	
7.				
5				Hydrophytic
	2	= Total Co	ver	Vegetation
			- 11	Present? Yes No No
50% of total cover:	20% of	total cove	r. <u>O.</u> (	
Remarks: (If observed, list morphological adaptations belo	w).			
				İ
				s 1
		44.17		

Profile Description: (Describe to the depth needed to document the Indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	Turkus
(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
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>a</sup> :
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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	and the standard of the standa
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 Midcky Millerar (S1) (ERR S, S)  Sandy Gleyed 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:	Hydric Soil Present? Yes No
Depth (inches):	Hydric Son Presence 165 No
Remarks:	



Wetland data point wsup029f\_w facing east.



Wetland data point wsup029f\_w facing northeast.

Project/Site: A CP City/C	County: SUFFOIIS Sampling Date: 2/16/15
Applicant/Owner: Dominion	State: UA Sampling Point: WS 40029 -
Applicant/Owner: VCTTTTVCT	State: G : Sampling Point.
Investigator(s): EST-J. Hov bour, K. Mur Parey Section  Landform (hillslope, terrace, etc.): Flot Local	on, Township, Range: N A
Landform (hillslope, terrace, etc.):Local	relief (concave, convex, none): +(AT Slope (%)
Subregion (LRR or MLRA): LRRT Lat: 36.738	
Soil Map Unit Name: Rains Fine Sondy luam	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS - Attach site map showing same	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
Tremains.	
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) (LRI	
Saturation (A3)  Hydrogen Sulfide Odor (	
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)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	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):	JA
Water Table Present? Yes No Depth (inches):	20
Saturation Present? Yes No Depth (inches): 2	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	avious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), il avaliable.
Remarks:	

7051472151		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30F+X30F+)  1. Pinus faeda	% Cover 50	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8	-			OBL species x 1 =
		= Total Co		FACW species x 2 =
50% of total cover: 25	20% of	total cove	10	
Sapling/Shrub Stratum (Plot size: 305+X305+)			-10	FAC species x 3 =
1. ITEX OPACA	10	<u> </u>	FAC	FACU species x 4 =
2. Ilex glabra	20	Y	FACW	UPL species x 5 =
3. Mosella cesifera	5	Ń	FAC	Column Totals: (A) (B)
4. SGMPIOCOS tincturia	2	N	FAC	B. January B.
i i				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1-Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	-2			3 - Prevalence Index is ≤3.01
	31	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 18.	5 20% of	total cove	7.4	_
Herb Stratum (Plot size: 305+ X305+)  1. Chasmoothiam (axam	5	λ/	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Chasalorman lakari	-5	7	FACU	
2. Euphturium capillifolium	-			Definitions of Four Vegetation Strata:
3. Rubus argutas	10	7	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.
5. Pteridium aguitinum	2	$\sim$	FACU	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 height.
12.				
	37	= Total Co	ver	
50% of total cover: 18.	5 20% of	total cove	7.4	
30% ditotal cover. 1777	20% 01	total cove		
Woody Vine Stratum (Plot size: 308+ K3 08+)				
1. None present				
2				
3				
4.				
5	-			Hydrophytic
0	0	= Total Co	/OF	Vegetation
EDDY of total account				Present? Yes No No
50% of total cover:		total cove		
Remarks: (If observed, list morphological adaptations below	W).			
	- Variable State of the State o			

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	Texture Remarks
(inches)	104R 2/2 100	Cod (most) 70 Type Loc	LS
3-12	104R3/2 100		
12-20	104R5/4 100		85
		M=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
Histoso	I (A1)	Polyvalue Below Surface (S8) (LRR S, T	
Histic E	pipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
	istic (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)
	d 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)
	d Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	_
	ark Surface (A12)	Iron-Manganese Masses (F12) (LRR O,	
Coast F	rairie Redox (A16) (MLRA 150	DA) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
	Mucky Mineral (S1) (LRR O, S	4	unless disturbed or problematic.
	Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150	
	Redox (S5)	<ul> <li>Piedmont Floodplain Soils (F19) (MLRA</li> <li>Anomalous Bright Loamy Soils (F20) (M</li> </ul>	30° 30° 30° 30° 40° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
	d Matrix (S6) urface (S7) (LRR P, S, T, U)	Anomalous Bright Loamy Solis (F20) (M	ERA 143A, 133C, 133D)
	Layer (if observed):		
Type:	Layor (ii obsorvad).		V
	iches):		Hydric Soll Present? Yes No
			11,4110 0011110001111 100 100
Remarks:			



Upland data point wsup029\_u facing south.



Upland data point wsup029\_u facing west.

Project/Site: ACP City/County: Suffork Sampling Date: 1/20/16
Applicant/Owner: Dom in ion State: VA Sampling Point: WSur 007
Investigator(s): C. Jacobs C. Mc Eachern Section, Township, Range: 1/A
Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%):
Subregion (LRR or MLRA): LPPT Lat: 36.73904 Long: -76, 69823 Datum: WGS
Subregion (LRR or MLRA): LFET Lat: OUT 15 TOT Long: 70, 67885 Datum: PVOS
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 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes X No
Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No
Remarks:
NCWAM : Hardwood Flat
HYDROLOGY  Second as the displace (minimum of two president)
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)
Surface Water (A1)  Aquatic Fauna (B13)  High Water Table (A2)  Aquatic Fauna (B13)  Drainage Patterns (B10)
Saturation (A3)  Hydrogen Sulfide Odor (C1)  Main Deposits (B16)  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): 20
Saturation Present? Yes X No Depth (inches): 10 Wetland Hydrology Present? Yes No
(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: 30x30 ft)  1. Pinus taeda 2. Alex rubrum 3. Nyssa Sylvatica 4. Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:	)
2. A(er rubrum 3. Nyssa sylvahica 5 y FAC Species Across All Strata: 4. Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:	)
3. NYSSa SY/ratica 5 Y FAC Species Across All Strata: O (E Species Across All Strata: D (E That Are OBL, FACW, or FAC: 100/1/4	
3. NYSSa SY/rah Co Species Across All Strata: (E 4. Percent of Dominant Species That Are OBL, FACW, or FAC: //O//(A	
5 Percent of Dominant Species	/B)
5 That Are OBL, FACW, or FAC:*(A	(B)
Provalence Index worksheet	
Prevalence index worksheet:	
8	
OBL species x1=	
50% of total cover: 20% of total cover: 5 FACW species x2 =	
Sapling/Shrub Stratum (Plot size: 37 × 30 H) FAC species x 3 =	
1. Acer rubrum It y FAC FACU species x4=	
2. Ilex opaca 16 Y FAC UPL species x5=	
3. Cornus stricta (0. N FACW Column Totals: (A)	3)
4. Quercus nigra 4 N FAC Prevalence Index = B/A =	
Prevalence midex - b/A -	
Try arophytic vogetation materials.	
7 2 - Dominance Test is >50%	
8	
50% of total cover: 18.5 20% of total cover: 7.4	
37 V 37 U	
Herb Stratum (Plot size: 30 x 30 H)  1. Arund 100 ria 9 9 white 15 Y FACW be present, unless disturbed or problematic.	.
2. Symplocoos tinctoria (o N 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 Sapling/Shrub – Woody plants, excluding vines, le	s
7 than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8 Herb – All herbaceous (non-woody) plants, regardle	ss
9 of size, and woody plants less than 3.28 ft tall.	
10 Woody vine – All woody vines greater than 3.28 ft	,
11 height.	
12.	
2 / = Total Cover	
50% of total cover: 10.5, 20% of total cover: 4.2	
Woody Vine Stratum (Plot size: 30 x 30 ft)	
1. None	
2	
3.	
1	
5 Hydrophytic Vegetation	
Present? Yes X No	
50% of total cover: 20% of total cover: 17635111	
Remarks: (If observed, list morphological adaptations below).	

epth	ription: (Describe to Matrix			Feature				
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>		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  Histosol (I  Histosol (I  Histosol (I  Histosol (I  Black Hist  Hydroger  Stratified  Organic E  5 cm Muc  Muck Pre  1 cm Muc  Depleted  Thick Dan  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) (LRR esence (A8) (LRR U) ck (A9) (LRR P, T) Below Dark Surface ck Surface (A12) airie Redox (A16) (Mi cucky Mineral (S1) (LR eyed Matrix (S4)	T, U) R P, T, U) (A11)	RRs, unless other Polyvalue Beld Thin Dark Sur Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres Marl (F10) (LF Depleted Och Iron-Mangane Umbric Surfact Delta Ochric (I Reduced Verti Piedmont Floc	wise note ow Surface face (S9) Mineral d Matrix ( ix (F3) urface (F6 c Surface csions (F6 cR U) ric (F11) se Masse e (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 F  U) 1 cm Muck 2 cm Muck Reduced Ve Piedmont Fi Anomalous (MLRA 15 Red Parent Very Shallor Other (Explain) The Company of the	Material (TF2) w Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present, isturbed or problematic.
Dark Sur	Matrix (S6) face (S7) (LRR P, S, ayer (if observed):	T, U)	Anomalous Br	ight Loar	ny Soils (	F20) <b>(MLF</b>	RA 149A, 153C, 153	D)
Type:	hes):						Hydric Soil Pres	ent? Yes No
emarks:								



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 styraciflua	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 =
50% of total cover: 10	20% of total cover: 10. 1	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)  1. Ilex paca	11 Y EAR	FACU species x 4 =
	11 7 77	UPL species x 5 =
2. Liquidambar Styraciflua		Column Totals: (A) (B)
3. Acer rubrum		(7)
4. Quercus 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	7,1	☐ 3 - Prevalence Index is ≤3.01
17	34 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover: <u>6.8</u>	
Herb Stratum (Plot size: 30x35 H)  1. NONL		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
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.		
	= Total Cover	
50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot size: 30X36 Ft)		
1. Norl		
2.		
3.	sign mercumbang surang beretagan en	
4		
5		Undershide
	= Total Cover	Hydrophytic Vegetation
50% of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).	

	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 <sup>3</sup> :
Histosol			Polyvalue B					(A9) (LRR O)
Black His	ipedon (A2)		Thin Dark S Loamy Mucl					<ul> <li>(A10) (LRR S)</li> <li>/ertic (F18) (outside MLRA 150A,B</li> </ul>
	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) <b>(LRR P, T)</b> 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) <sup>3</sup> 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: HCP City/County: Suffork Sampling Date: 1/20/16
Applicant/Owner: DDM10100 State: VA Sampling Point: WSur 008f.
Investigator(s):
Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%): O - c
Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%): O - Subregion (LRR or MLRA): LRT Lat: 36.73991 Long: +76.69735 Datum: WGS
Soil Map Unit Name: Lynchburg 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 Within a Wetland?  Yes X No Within a Wetland?  No WAM: 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)  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)
Field Observations:
Surface Water Present? Yes No _X Depth (inches): NA
Water Table Present? Yes W No Depth (inches): 3  Saturation Present? Yes No Depth (inches): 2  Wetland Hydrology Present? Yes No
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,
34.146

Control to the late of the second of the sec		
1. Liquidanbar styracifina 2. NYSS a Sylvatica	Absolute Dominant Indicator  Species? Status  Absolute Dominant Indicator  Species? Status  FAC  Y  FAC	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
3.		Total Number of Dominant Species Across All Strata:  5 (B)
4 5		Percent of Dominant Species That Are OBL, FACW, or FAC:/
6		Prevalence Index worksheet:
7.		Total % Cover of: Multiply by:
8.		OBL species x 1 =
0	26 = Total Cover	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30 ft)		FAC species x 3 =
1. Ilex opaca	26 Y. FAC	FACU species x 4 =
2. Persea palustris	5 N FACE	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	3 - Prevalence Index is ≤3.01
50% of total cover: 1.5	5 20% of total cover: 6.2	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30 X30 H)	20% 01 10141 00101.	1
Herb Stratum (Flot size.	12 Y FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinaria gigantea 2. Flex coriacea	THE TOTAL	
2. 110x 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 SERVER TO DESCRIPT A PROPERTY OF THE PROPER		
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
11 12.		height.
	2 0 = Total Cover	
50% of total cover:/ 7	The second secon	
Woody Vine Stratum (Plot size: 30 X 30 Pt)	20 % of total cover	
Woody Vine Stratum (Plot size: 8070001)		
1. None		
2.		
3.		
4.		
5.		Hydrophytic
	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).	
THE PROPERTY OF THE PROPERTY O		

Profile Des	cription: (Describe t	o the depth	needed to docum	ent the i	ndicator	or confirm	the absence of in	ndicators.)
Depth	Matrix			Features				
(inches)	Color (moist)		Color (moist)	%	Type'	_Loc <sup>2</sup>	Texture	Remarks
0-8	2.543/1	100	() (0 4:				<u> </u>	
8-20	7.54R4/2	90 1	1.54R 5/6	10	C	M	SCL	
					I This is a		James III	
				20.00				
				-				
						100000000000000000000000000000000000000		
1Type: C=C	oncentration, D=Deple	ation PM=Pa	aduced Matrix MS	=Masked	Sand Gr	aine	21 ocation: PI =	Pore Lining, M=Matrix.
	Indicators: (Applica					11113.		Problematic Hydric Soils <sup>3</sup> :
☐ Histosol			Polyvalue Bel			PRS T II		(A9) (LRR O)
	pipedon (A2)		Thin Dark Sur					(A10) (LRR S)
	istic (A3)		Loamy Mucky					ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			٠,		Toodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat					Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,	T, U) '	Redox Dark S		6)		(MLRA 1	
	icky Mineral (A7) (LR		Depleted Dark	men Germinator and Auto	1.		The state of the s	Material (TF2)
	esence (A8) (LRR U)		Redox Depre	ssions (F	3)		☐ Very Shallo	w Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (LI				Other (Expl	ain in Remarks)
☐ Deplete	d Below Dark Surface	(A11)	Depleted Och	ric (F11)	(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangane					s of hydrophytic vegetation and
	rairie Redox (A16) (M		Umbric Surface			U)		hydrology must be present,
	Mucky Mineral (S1) (L	RR O, S)	Delta Ochric (					listurbed or problematic.
The state of the s	Sleyed Matrix (S4)		Reduced Vert					
	Redox (S5)		Piedmont Flor					ID)
	Matrix (S6)	T 10	Anomalous B	ngnt Loar	ny Solis (i	-20) (MLR/	A 149A, 153C, 153	10)
	rface (S7) (LRR P, S, Layer (if observed):	1, 0)						
	Layer (ii observed).							
Type:	-h\.		_				Hydric Soil Pres	sent? Yes X No
THE RESERVE THE PARTY OF THE PA	ches):		- 1 1 1 1 1 1 1 1				nyuric Soil Pres	sentr res / No
Remarks:								



Wetland data point wsur008f\_w facing northeast.



Wetland data point wsur008f\_w facing southeast.

A	-ORM - Atlantic and Guir Coastal Flain Region
Project/Site:(	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: N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 0-2
Subregion (LRR or MLRA): LRRT Lat: 36.	73988 Long: -76.69762 Datum: WGS
Soil Map Unit Name: Lynchburg fine Sand	y loam NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
SUMMARY OF FINDINGS – Attach site map snowing	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 (B13	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15)	(LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide C	
1 1 - Dotter beige Out to Alega (1998) 10 0000 10 0000 10 0000 10 0000 10 0000 10 0000 10 0000 10 0000 10 0000	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	et Mar Physical All (1987) 이렇게 하는 것이 있는 것이 없는 것이 없어 없는 것이 없어
	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface	
☐ Iron Deposits (B5) ☐ Other (Explain in Red) ☐ 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)	1: 720
Saturation Present? Yes No Depth (inches)	: 720 Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, 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.				Barred of Barreland Species / C
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		
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: 20 7801)	17	11	D.	FACU species x 4 =
1. Ilex opaca	15	<u> </u>	140	
2. Duercus alba	12	Y	FALL	UPL species x 5 =
- L'Aud la Sura Chia	Q	Λ/	FAL	Column Totals: (A) (B)
3. Liquidambar Styraciflus			FAC	
4				Prevalence Index = B/A =
				The state of the second section of the second section of the second second second second section section section section second second section second
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
			William Cont.	
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	35	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 17	5 20% of	total cover	+	Troblemate rivarepriyae vegetation (Explany
	. 0 20 /0 01	total cover.		
Herb Stratum (Plot size: 32 x30ft)	1	.,		<sup>1</sup> 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. 11-2 01000		-14	INC	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				Ticigrit.
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:	20% of	total cover:	2	
Wands Vine Chatson (Diet size: 51) V200				
Woody Vine Stratum (Plot size: 30 x30 4)				
Woody Vine Stratum (Plot size: SO X30 A)  1. Nove				
1. None				
1. None				
1. Nove 2				
1. None 2				
1. Nove 2				Hydrophytic
1. None 2		= Total Cov	er	Vegetation
1. Nove 2		= Total Cov		
1. Nove 2 3 4 5 50% of total cover:				Vegetation
1. Nove 2		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation
1. Nove 2 3 4 5 50% of total cover:		= Total Cov		Vegetation

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	Touture Bewerke
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks
0-4 104R 5/3 100	5 ADVINGE LA
4-20 7.5YR 94 100	5
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
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) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Loamy Gleyed Matrix (F2)  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)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)  Depleted Ochric (F11) (MLRA 151)	3
Thick Dark Surface (A12)  Iron-Manganese Masses (F12) (LRR O, P,	
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)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Midcky Millerar (S1) (ERR 6, 5)  Sandy Gleyed Matrix (S4)  Reduced Vertic (F18) (MLRA 150A, 150B)	unics distarbed of problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149	(A)
Stripped Matrix (S6)  Anomalous Bright Loamy Soils (F20) (MLRA	
	1 1407, 1000, 1000,
Dark Surface (S7) (LRR P, S, T, U)	
Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (if observed):	1107, 1000, 1000,
	<b>X</b>
Restrictive Layer (if observed):	Hydric Soil Present? Yes No
Restrictive Layer (if observed):  Type:	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>
Restrictive Layer (if observed):  Type:  Depth (inches):	<b>X</b>



Upland data point wsur008\_u facing northwest



Upland data point wsur008\_u facing southwest

Project/Site: ALP City/O	County: 5 uffork Sampling Date: 10/11/16
	State: VA Sampling Point: WS WD 047f
Investigator(s): ESI-Turnbull, Roper Section	
	relief (concave, convex, none): None Slope (%): D-3/
	71 Long: -76, 69498 Datum: W6584
Soil Map Unit Name: Eunda loamy fine sand	2-6/1 5 lopenWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS - Attach site map showing sam	
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) (LRf	
Saturation (A3) Hydrogen Sulfide Odor (C	20 Late 1
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)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	(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):	NA
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, pre	vious inspections), if available:
Remarks:	х х
9	

TESTIATION (1 can chatta)	the bit Ball to	Darling Com.
Tree Stratum (Plot size: 30ff x30ff)	Absolute Dominant Indica % Cover Species? State	
1. Ilex opaca		
2. Liquidambar styraciflua		
3. Aver rubrum	20 Y F1	Species Across All Strata: (B)
4.		A DESCRIPTION OF THE RESERVE OF THE PROPERTY O
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		
8.		lotal % Cover of: Multiply by:
0	LeD = Total Cover	OBL species x 1 =
2,		
	20% of total cover: 1 8	
Sapling/Shrub Stratum (Plot size: 30ff x30ff)		FAC species x 3 =
1. hone		FACU species x 4 =
		UPL species x 5 =
2		Column Totals: (A) (B)
3.		Coldinii Totais (A) (B)
4.		Prevalence Index = B/A =
5		
6		1_Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.0¹
	O Tatal Sauce	
TO WINE TO SEE THE SECOND SECO	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	
Herb Stratum (Plot size: 30ff x 30ff)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Clethra alnifolia	25 Y E4	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3.	The lim to provide the	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4.		Ties - Woody plants, excluding vines, 5 in. (7.5 cm) of
		h = i = h i
5		
6		Sapling/Shrub - Woody plants, excluding vines, less
7		
3 CONTRACTOR ST. 100 CONTRACTOR ST.		
8.		
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		
		Inorgin.
12	7.5	<del>-</del>
	Z5 = Total Cover	
50% of total cover: 12 5	20% of total cover: 5	
Woody Vine Stratum (Plot size: 30ft x30ft)		_
	IT V FN	
1. Smilax rotunditolia	13 / FH	Gast
2. Vitis rotundifolia	10 Y FI	<del>IC</del>
3		
J.		_
4		_
5.		— Hydrophytic
	Z5 = Total Cover	Vegetation
17.5	5 20% of total cover: 5	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (If observed, list morphological adaptations belo	ow).	
	CONT.	
= 0		
1		

						or commi	n the absence o		,	
Depth	Matrix		Red	ox Features	5	. 7				194
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	AUS	Remarks	
0-6	10 YR 2/1	100	0.11				mucky L	<u> </u>		
6-20	10484/2	95	04R 5/6	_ 5_		M	5'		50/11 (All All -	
			a a market	X 75 5				10 = 20 2. 01 % 100		
			2 1					H		
				Bernelland			N	0		
¹Type: C=C	oncentration, D=Dep	letion, RM=R	educed Matrix, M	1S=Masked	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lin	ing, M=Matri	х.
	ndicators: (Applic								atic Hydric	
Histosol	(A1)		Polyvalue B	elow Surfac	ce (S8) (L	RR S, T, L	J) 1 cm Mu	ick (A9) (LF	RR O)	4:
Histic Ep	pipedon (A2)		Thin Dark S					ick (A10) (L		570
Black Hi	stic (A3)		Loamy Muc	ky Mineral (	(F1) (LRR	(0)	Reduce	d Vertic (F1	8) (outside N	/ILRA 150A,B)
- Table 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (	n Sulfide (A4)		Loamy Gley		F2)		_	THE RESERVE TO SERVE THE PARTY OF THE PARTY		(LRR P, S, T)
	Layers (A5)		Depleted M						oamy Soils (	F20)
	Bodies (A6) (LRR P		Redox Dark					A 153B)	L (TEO)	
	cky Mineral (A7) (LF		Depleted Da					ent Materia	Surface (TF1	2)
	esence (A8) (LRR U ck (A9) (LRR P, T)	,	Redox Depr Marl (F10) (	the state of the s	)			Explain in Re		2)
100000000000000000000000000000000000000	Below Dark Surface	e (A11)	Depleted O		MLRA 1	51)	0.1161 (2	.xpiuiii iii iv	citiains)	
	rk Surface (A12)	- ( /	Iron-Mangai				T) <sup>3</sup> Indica	tors of hydr	ophytic veget	ation and
Control of the Contro	airie Redox (A16) (M	ALRA 150A)	Umbric Surf					nd hydrolog	gy must be pr	resent,
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochrid	(F17) (ML	RA 151)		unles	s disturbed	or problema	tic.
	leyed Matrix (S4)		Reduced Ve							
	edox (S5)		Piedmont Fi							4
1.13 (day 1.15 (	Matrix (S6) face (S7) (LRR P, S	·	Anomalous	Bright Loan	ny Soils (	-20) (MLR	A 149A, 153C,	1530)		
Restrictive I	.ayer (if observed):									
Restrictive I	.ayer (if observed):			× 11			Hydric Soil F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):		<del>-</del>				Hydric Soli F	Present?	Yes	No
Restrictive I	.ayer (if observed):		_				Hydric Soll F	resent?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):		_	× 111			Hydric Soli F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):			* 1		13	Hydric Soli F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):		_	23		13 0	Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):		3	« п <sub>і</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):			« п <sub>і</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100	2	ж п <sub>і</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed):	1000 1000 1000 1000 1000 1000 1000 100		× 1  101			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		× 1			Hydric Soli F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100	2	2 III			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100	3	2 II <sub>1</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		Ø пј			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		2 II <sub>1</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		2 II <sub>1</sub>			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100	2	2 III			Hydric Soll F	Present?	Yes	No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		× 1  <sub>1</sub>				Present?		No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100								No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100								No
Restrictive I Type: Depth (inc	.ayer (If observed):	1000 1000 1000 1000 1000 1000 1000 100								No
Restrictive I Type: Depth (inc	.ayer (if observed): :hes):	1000 1000 1000 1000 1000 1000 1000 100		2 IIII						No
Restrictive I Type: Depth (inc	.ayer (If observed):	1000 1000 1000 1000 1000 1000 1000 100	2	2 III						No
Restrictive I Type: Depth (inc	.ayer (If observed):	1000 1000 1000 1000 1000 1000 1000 100								No
Restrictive I Type: Depth (inc	.ayer (If observed):	1000 1000 1000 1000 1000 1000 1000 100								No



Wetland data point wsuo047f\_w facing north.



Wetland data point wsuo047f\_w facing east.

	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 Wetland Hydrology Present? Yes No V	within a Wetland? Yes No
Remarks:	- 1
	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 Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	uced Iron (C4) Crayfish Burrows (C8) uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface	[1] [ [1] [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	rs): NA
Water Table Present? Yes No Depth (inche	es): <u> </u>
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es):   Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
( )	
	·
N N	
	li li

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

VIOLITITION (1 car culata)	1100 01 PI						
	Absolute			Dominance Test worksheet:			
Tree Stratum (Plot size: 30ff x30ff)	% Cover	Species		Number of Dominant Species Z			
1. Querus alba	10		FACU	That Are OBL, FACW, or FAC: (A)			
2. Liquidambar styraciflya	10	V	FAC				
M De a salama	10	-	FAC	Total Number of Dominant			
3. Acer rubrum				Species Across All Strata: (B)			
4. Lornus florida	10	_ Y	FACU	2.00			
			The second second	Percent of Dominant Species That Are OBL, FACW, or FAC: 43/( (A/B)			
5				That Are OBL, FACW, or FAC: (A/B)			
6			(11.000				
7				Prevalence Index worksheet:			
		OF THE		Total % Cover of: Multiply by:			
8				OBL species x 1 =			
	40 :	Total Co	ver				
50% of total cover: 20		total cover		FACW species 25 x 2 = 50			
	20 % 01	total cove		FAC species 20 x3 = 60			
Sapling/Shrub Stratum (Plot size: 30 Ft x 30 Ft)			n 1113	FACU species HO x 4 = 160			
1. Querius alba	10	Y	FACU	FACU species x 4 = 1 6 D			
	0 =31 H	17.5		UPL species x 5 =			
2.				Column Totals: <u>B5</u> (A) <u>270</u> (B)			
3.				Column Totals (A) (B)			
	Simple term and the			7 1 2			
4				Prevalence Index = B/A = 3,18			
5		10001 10		Hydrophytic Vegetation Indicators:			
6			V. 100.000 1	1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8.	- 16	N a ye		3 - Prevalence Index is ≤3.01			
The strategies are also as the strategies of the strategies and the strategies are strategies are strategies are strategies and the strategies are strate	10.	= Total Co	ver				
5	VALES	- Total CO	7	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
50% of total cover: 5	20% of	total cover					
Herb Stratum (Plot size: 30ff x 30ff)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
1. Querus alba	10	V	FACU	be present, unless disturbed or problematic.			
				Company of the compan			
2. Clethra alnifolia	25	<u> </u>	FACW	Definitions of Four Vegetation Strata:			
3.							
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or			
4.				more in diameter at breast height (DBH), regardless of			
5.				height.			
6				Sapling/Shrub - Woody plants, excluding vines, less			
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
8							
				Herb - All herbaceous (non-woody) plants, regardless			
9	<u> </u>			of size, and woody plants less than 3.28 ft tall.			
10				Manda due Allace due acceptant han 2 39 ft in			
				Woody vine - All woody vines greater than 3.28 ft in			
11				height.			
12							
	35	Total Co	ver				
17 5			Strong				
50% of total cover:	20% of	total cove					
Woody Vine Stratum (Plot size: 30ff x 30ff)							
1. none							
2							
3.							
				Y V			
4							
5.				Hydrophytic			
	0	= Total Co		Vegetation			
		- Total Co	vei	Present? Yes No V			
50% of total cover:	20% of	total cove	r:	110301111			
Remarks: (If observed, list morphological adaptations belo	w)						
Remarks. (Il observed, list mo priological adaptations belo	w).						
				10			
				4			
				W.			
6056cm - 50756cm	200300000000						

SOIL								Si	w ampling Point	540047-u	
Profile Desc	cription: (Describe	to the dept	h needed to doc	ument the i	indicator	or confirm	the absence	of Indicato	rs.)		
Depth	Matrix			dox Feature							
(inches)	Color (moist)	%	Color (moist)			Loc <sup>2</sup>	Texture		Remarks		
0-3	101R2/2	100					SL				
3-6	2.5 11412	100	T 18 1 5 1 6	100	-	36.4	5				
	213 1112		120 101 10			- 4			8		
6-20	2.54 3/3	100					5			- 10, 5	
-	Vertical and the second		off treatment of the len								
15-16										<u> </u>	
¹Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, I	MS=Masked	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Li	ining, M=Matr	ix.	
	Indicators: (Applic								matic Hydric		
Histosol			Polyvalue I			RR S. T. U					
	pipedon (A2)		Thin Dark 8					luck (A10) (	ALCOHOL ST.		
	istic (A3)		Loamy Muc				Reduced Vertic (F18) (outside MLRA 150A,B)				
	en Sulfide (A4)		Loamy Gle			1	Piedmont Floodplain Soils (F19) (LRR P, S, T)				
	d Layers (A5)		Depleted M				Anoma	lous Bright	Loamy Soils	(F20)	
A STATE OF THE STA	Bodies (A6) (LRR F	P, T, U)	Redox Dari		<del>-</del> 6)		(MLRA 153B)				
	icky Mineral (A7) (L		Depleted D	ark Surface	(F7)		Red Parent Material (TF2)				
	esence (A8) (LRR L		Redox Dep	ressions (F	(8)		Very Shallow Dark Surface (TF12)				
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10)	(LRR U)			Other (	Other (Explain in Remarks)			
Deplete	d Below Dark Surface	e (A11)	Depleted C	chric (F11)	(MLRA 1	51)					
Thick Da	ark Surface (A12)		Iron-Manga	nese Mass	es (F12) (	LRR O, P,	T) <sup>3</sup> Indic	ators of hyd	trophytic vege	tation and	
Coast P	rairie Redox (A16) (	MLRA 150A	Umbric Sur	face (F13)	(LRR P, T	, U)	wet	and hydrole	ogy must be p	resent,	
Sandy N	Mucky Mineral (S1) (	LRR O, S)	Delta Ochri	ic (F17) (ML	LRA 151)		unle	ess disturbe	d or problema	itic.	
	Sleyed Matrix (S4)		Reduced V								
Sandy F	Redox (S5)		Piedmont F	The state of the s							
	Matrix (S6)		Anomalous	Bright Loai	my Soils (	F20) (MLR/	A 149A, 153C,	(153D)			
	rface (S7) (LRR P,			presonane a						<u> </u>	
Restrictive	Layer (if observed)	:									
Туре:											
Depth (in	ches):		<u> </u>				Hydric Soll	Present?	Yes	No	
Remarks:					7 1 1		10				
						-					



Upland data point wsuo047\_u facing west.



Upland data point wsuo047\_u facing south.

# WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ALP Ci	ty/County: Suffolk Sampling Date: 10/11/16
Applicant/Owner: Dominion	State: VA Sampling Point: wound46e-v
	ection, Township, Range: NON-C
	cal relief (concave, convex, none): None Slope (%): D-37,
Subregion (LRR or MLRA): LRR T Lat: 36.7	
Soil Map Unit Name: Lynchburg fine sandy 1	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dis	sturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally probl	
	ampling 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	
	n 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 U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odd	
4 <del></del>	es along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Ren Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	Opriagram moss (20) (Error, 0)
Surface Water Present? Yes No Depth (inches): _	ī
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Swfnce   Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	
7	

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

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

2 61 - 61	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	% Cover Species? Status	Number of Dominant Species
1. hone		That Are OBL, FACW, or FAC:
2.		
3.		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		
8		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
	20% of total cover:	FACW species x 2 =
	20 % of total cover	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30f+ x30f+)		FACU species x 4 =
1. none		UPL species x 5 =
2		
3		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
5.		
		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation1 (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size: 30 ft x 30 ft)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Scirpus Lyperinus	26 Y OBL	be present, unless disturbed or problematic.
2. Arundinaria gigantea		Definitions of Four Vegetation Strata:
2. Mindinaria gigantea	1 - 7/ 50511	Definitions of Four Vegetation Strata.
3. Eupatorium capillifolium		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Robus argutus	10 N FAL	more in diameter at breast height (DBH), regardless of
5. Cyperus sp.	15 Y FAC/08L	height.
6. Andropogon Virginicus	15 Y FAL	Sapling/Shrub - Woody plants, excluding vines, less
7. Pinus taeda	10 N FAL	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		
	90 = Total Cover	
50% of total cover: <u>45</u>	20% of total cover: 18	
Woody Vine Stratum (Plot size: 30ft x 30ft )		
1. none		
2		
3		
4		
5.		Hydrophytic
	= Total Cover	Vegetation
500/ of total arrival	ASS CHARLES AND THE	Present? Yes No
	20% of total cover:	
Remarks: (If observed, list morphological adaptations below	ow).	
		1
		1

							the absence o		100	
Depth (inches)	Matrix Color (moist)	%	Red	ox Features %	Type	Loc²	Texture		Remarks	
(inches)	10 4 R 2/1	100	Color (moist)		Туре	LOC	5L		Remains	
0-70	10 1/2 -11	100								
			Table 1							
										-
1							24 5	N - D 1 !-		
	ncentration, D=Dep ndicators: (Applic					ins.			ing, M=Matrix atic Hydric S	
Histosol			Polyvalue B			RSTI				
	ipedon (A2)		Thin Dark S					ick (A10) (L		
Black His				ky Mineral (F						LRA 150A,B)
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matrix (F2	2)					(LRRP, S, T)
	Layers (A5)		Depleted Ma						oamy Soils (F	20)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bodies (A6) (LRR P			Surface (F6	S			A 153B)	LITEON	
	cky Mineral (A7) (LI esence (A8) (LRR U		Depleted Da Redox Depr	ark Surface (I				ent Materia	Surface (TF1:	2)
	ck (A9) (LRR P, T)	" ·	Marl (F10) (					xplain in R		-,
	Below Dark Surfac	e (A11)		chric (F11) (N	VILRA 15	1)			•	
	rk Surface (A12)		Iron-Mangai	nese Masses	(F12) (L	RR O, P,		· ·	ophytic veget	
	airie Redox (A16) (I			ace (F13) (L		U)			gy must be pr	
	ucky Mineral (S1) (I	LRR O, S)		: (F17) (MLR		A 460B)	unles	s disturbed	or problemat	IC.
Sandy G	leyed Matrix (S4)			ertic (F18) <b>(M</b> Ioodplain Soi			9A)			
	Matrix (S6)						A 149A, 153C,	153D)		
	face (S7) (LRR P, S	S T 11)								
		3, 1, 0,								
	ayer (if observed):									
			_							
Restrictive L			-				Hydric Soll F	Present?	Yes	No
Restrictive L	ayer (If observed):		-				Hydric Soll F	Present?	Yes	No
Type: Depth (incomers)	ayer (If observed):		fram	1000	ina			resent?	Yes	No
Type: Depth (incomers)	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		resent?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	ayer (If observed):		from	loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (inc Remarks:	hes):			loggi	ing	acti		resent?	Yes	No
Type: Depth (inc Remarks:	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing	acti		Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing		vities	Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing			Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing		vities	Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing		vities	Present?	Yes	No
Type: Depth (incomers)	hes):	5016		loggi	ing		vities	Present?	Yes	No



Wetland data point wsuo046e\_w facing south.



Wetland data point wsuo046e\_w facing east.

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: HLP	City/County: Suffolk Sampling Date: 10/11/16
Applicant/Owner: Dominion	State: V A. Sampling Point: W540046f_
Investigator(s): ESI-Turnbull, Roper s	
Landform (hillslope, terrace, etc.): flat	Local relief (concave, convex, none): None Slope (%): 0-31/
	74541 Long: -76.69285 Datum: W6589
Soil Map Unit Name: Lynchburg fine sandy	
Are climatic / hydrologic conditions on the site typical for this time of yea	
Are Vegetation, Soil, or Hydrology significantly d	,
Are Vegetation, Soil, or Hydrology naturally prob	
	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
Domarks	
(Hurricane Matthew) Heavy ro	ain within 72hrs. [approx. 11"]
NLWAM: 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)	
X High Water Table (A2) Marl Deposits (B15)	
✓ Saturation (A3) Hydrogen Sulfide Oc	
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (i	
Iron Deposits (B5) Other (Explain in Rel Inundation Visible on Aerial Imagery (B7)	emarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches):	· NA
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	
Describe Necorded Data (Stream gauge, monitoring well, acrial process	s, providus inspections), il available.
Remarks:	
0	

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

	Absolute	Deminon	Indicator	Deminance Test unrischest:
Tree Stratum (Plot size: 30f+ x 30 f+)			Indicator	Dominance Test worksheet:
			? Status	Number of Dominant Species
1. Pinus taeda	20		FAL	That Are OBL, FACW, or FAC: (A)
2				
1				Total Number of Dominant
3				Species Across All Strata: (B)
4				
The state of the s				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7			. —	Total % Cover of: Multiply by:
8				
NAC 25 (10 21 41) - 20 20 21 21 21 21 22 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	20	= Total Co	wer	OBL species x 1 =
ID		- 1000100	ч	FACW species x 2 =
50% of total cover: 10	20% of	total cove	r:	
Sapling/Shrub Stratum (Plot size: 30ff x 30 ff)				FAC species x 3 =
1. ALER rubrum	10	V	FAL	FACU species x 4 =
1. ALLE TUBIOTA	10	-/-		UPL species x 5 =
2. Vaccinium corumbosum	15	_ Y	FALW	
3. Ilex opaca	10	У	FAC	Column Totals: (A) (B)
1				
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		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 17 i	5 20% of	total cove	r 7	
	207001	total cove		
Herb Stratum (Plot size: 30ff x 30ff)		4.0		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Woodwardia areolata	10	У	OBL	be present, unless disturbed or problematic.
2. Vaccinium corymbosom	15	V	FACW	Definitions of Four Venetation Strates
2. Vacanion corymposom	10			Definitions of Four Vegetation Strata:
3. Arundinaria gigantea	10		FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
1				more in diameter at breast height (DBH), regardless of
4				
5				height.
6				Santing/Shrub Woody plants evaluding vines less
1000				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	$\overline{}$			of size, and woody plants less than 3.20 it tall.
10				I I
				Woody who All woody vines greater than 3.28 ft in
				Woody vine – All woody vines greater than 3.28 ft in
11				Woody vine - All woody vines greater than 3.28 ft in height.
11				
1112	35	= Total Co	ver _	
11	35	= Total Co	ver _	
11	35	= Total Co	ver _	
11	35	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	
11	35 20% of	= Total Co	ver _	height.
11	3.5 20% of	= Total Co	wer r:7	height.  Hydrophytic
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	height.  Hydrophytic
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation
11	35 20% of	= Total Co	ver 7	Hydrophytic Vegetation

Profile Description: (Describe to the dept	h needed to docum	ent the Indica	tor or confirm	the absence of Ind	licators.)
Depth Matrix	Redox	r Features			340
(inches) Color (moist) %	Color (moist)	<u>%</u> Typ	e Loc²	Texture	Remarks
0-4 10482/1 100					
4-20 2.5 44/2 90	10 4 R.4/6	10 0	M	5	
	10 11				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=			d Grains.		ore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all I	RRs, unless other	wise noted.)		Indicators for Pr	oblematic Hydric Solls <sup>3</sup> :
Histosol (A1)	Polyvalue Bel	low Surface (S	B) (LRR S, T, L	J) 1 cm Muck (/	A9) (LRR O)
Histic Epipedon (A2)	Thin Dark Sur	rface (S9) (LRI	R S, T, U)		A10) (LRR S)
Black Histic (A3)	Loamy Mucky	Mineral (F1) (	LRR O)		tic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye				podplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Mat	, ,			Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S			(MLRA 15	P. William Co., and the contraction of the contract
5 cm Mucky Mineral (A7) (LRR P, T, U)		k Surface (F7)			Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depre				Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (L1			Other (Expla	in in Remarks)
Depleted Below Dark Surface (A11)		ric (F11) (MLR		31	-ftdb.did
Thick Dark Surface (A12)		ese Masses (F1			of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A		ce (F13) (LRR			ydrology must be present, sturbed or problematic.
Sandy Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 1			surbed or problematic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		tic (F18) <b>(MLR</b> / odplain Soils (F			
Stripped Matrix (S6)				RA 149A, 153C, 153D	
Dark Surface (S7) (LRR P, S, T, U)	Anomalous B	right Loanly Go	/// (1 20) (MEN	A 143A, 133C, 133E	,
Restrictive Layer (if observed):				T	
					100
Type:	_				ent? Yes No
Depth (inches):	_			Hydric Soll Prese	ont? Yes _V NO
Remarks:					



Wetland data point wsuo046f\_w facing east.



Wetland data point wsuo046f\_w facing south.

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ALP City/0	County: Suffolk Sampling Date: 10/11/16
Applicant/Owner: Pominion	State: V A Sampling Point: would How
Investigator(s): ESI- Turnbull, Roper Sect	ion, Township, Range: None
Landform (hillslope, terrace, etc.): flat Loca	al relief (concave, convex, none): NDNC Slope (%): 0-3'/
Subregion (LRR or MLRA): LFRT Lat: 36.74.	541 Long: <u>76.69285</u> Datum: <u>W6585</u>
Soil Map Unit Name: Lynchburg fine sandy low	
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	
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Emarks:  Hurricane Mathew) Heavy rain	Is the Sampled Area within a Wetland?  Yes No  Within 72hrs, [approx. 11"]
Oct. 8-9, 2016	
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 (	
Water Marks (B1) Oxidized Rhizospheres	
Sediment Deposits (B2) Presence of Reduced In	on (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction is	n 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 Remark	rks) 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):	
Water Table Present? Yes No Depth (inches):	320
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
Remarks.	

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

vacation (roun cultury coordinates)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)			Status	126 W 2540 200 2000 20
			FAC	Number of Dominant Species
1. Pinus taeda				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 Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	25	= Total Co	ver	OBL species x 1 =
50% of total cover: 12.5	20% of	total cove	- 5	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)		10141 0010		FAC species x 3 =
	15	V	Chen	FACU species x 4 =
1. Oxydendrum arboreum		- 1	FACU	UPL species x 5 =
2. Pinus taeda	10	N	FAL	
3. Acer rubrum	10	N	FAC	Column Totals: (A) (B)
4. Querus nigra	15	Y	FAC	Descriptions and an array of P/A =
5. Persea patostris	10	N	FACW	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	10D	= Total Co	ver	Total Control of the
50% of total cover: 30	200/ =4	tetal agua	12	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	20% or	total cove	101	
Herb Stratum (Plot size: 3DF+ x 3DF+)			- 1 - 1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Vaccinium corymbosum	10	7	FACW	be present, unless disturbed or problematic.
2. Pteridium aquilinum	10	У	FACU	Definitions of Four Vegetation Strata:
0				
				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.
8				Herb All harbaccour (non woods) plants regardless
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants loss than 5.25 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	20	= Total Co	ver	
50% of total cover: ID		total cove		
Woody Vine Stratum (Plot size: 30 Ft x 30 Ft)	2070 01	total cove		
	, ,	11	En.	
1. Smilax rotunditolia	15	1	FAL	
2				
3.				
4				
-				
5	1			Hydrophytic
7 -		= Total Co	-	Vegetation   Present?   Yes   No
50% of total cover: 115	20% of	total cove	r: <u> </u>	Flesent? Tes NO
Remarks: (If observed, list morphological adaptations belo	w).			
,	301/4			l
				I

Sampling Point:

Profile Desc	cription: (Describe	to the depth n	eeded to docur	nent the i	Indicator	or confirm	the absence of	Indicators.)	
Depth	Matrix		Redo	x Feature			74		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remar	KS
0-2	104/57	100					<u>SL</u>		
2-6	2.5/4/2	100					_ ک		
6-20	2-5/4/3	100					5		
	oncentration, D=Dep					ains.		=Pore Lining, M=N	
Hydric Soil	Indicators: (Applic	able to all LRR	Rs, unless other	rwise not	ed.)		Indicators for	r Problematic Hyd	Iric Solls":
Histosol	(A1)	_	_ Polyvalue Be					k (A9) (LRR O)	
	pipedon (A2)	_	_ Thin Dark Su					k (A10) (LRR S)	4- 441 DA 450A DI
	istic (A3)	-	_ Loamy Muck			(0)		Floodplain Soils (F	de MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)	_	_ Loamy Gleye _ Depleted Ma		F2)			us Bright Loamy So	
_	Bodies (A6) (LRR P	T. U)	_ Redox Dark		-6)		(MLRA		713 (1 20)
	ucky Mineral (A7) (LF		Depleted Da					nt Material (TF2)	
	resence (A8) (LRR U		Redox Depre					llow Dark Surface (	TF12)
1 cm Mu	ick (A9) (LRR P, T)	_	Marl (F10) (L	RR U)			Other (Ex	plain in Remarks)	
	d Below Dark Surfac	e (A11) _	_ Depleted Oc				2	100 100 100	
	ark Surface (A12)		_ Iron-Mangan					ors of hydrophytic v	
_	rairie Redox (A16) (M		_ Umbric Surfa			, u)		d hydrology must be disturbed or proble	
	Mucky Mineral (S1) (I Gleyed Matrix (S4)	_KK 0, 5) _	_ Delta Ochric _ Reduced Ver			0Δ 150B)	dilless	disturbed or proble	ematic.
	Redox (S5)	_	_ Piedmont Flo				3A)		
	Matrix (S6)						149A, 153C, 1	53D)	
Dark Su	rface (S7) (LRR P, S			-					
	Layer (if observed):								
Type:									/
Depth (in	ches):		_				Hydric Soll Pr	esent? Yes	No
Remarks:									



Upland data point wsuo046\_u facing west.



Upland data point wsuo046\_u facing north.

### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

	City/County: Suffork Sampling Date: 10/11/16
Applicant/Owner: Pominion	State: VA Sampling Point: wsuo 045fu
Investigator(s): ESI-Turnbull, Roper	
Landform (hillslope, terrace, etc.): drainage	Local relief (concave, convex, none): Con Lo-Ve Slope (%): 0-31,
	74727 Long: -76.69132 Datum: W6584
Soil Map Unit Name: Rains fine sandy 100	
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Complet Asse
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	7
(Hurricane Matthew) Heavy rai	n within 72hrs. [approx. 11"]
NCWAM: Headwater Forest	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)	
Surface Water (A1) Aquatic Fauna (B1	
High Water Table (A2) Marl Deposits (B15	
Saturation (A3) Hydrogen Sulfide (	Odor (C1) Moss Trim Lines (B16)
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduction	ced Iron (C4) Crayfish Burrows (C8)
Manager   1   1   1   1   1   1   1   1   1	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	Market Stranger and Control of the C
Iron Deposits (B5) Other (Explain in F	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	N/1/
Surface Water Present? Yes No Depth (inches	
Water Table Present? Yes No Depth (inches	19
Saturation Present? Yes No Depth (inches (includes capillary fringe)	): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
Normana.	

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

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

Tree Stratum (Plot size: 30ft x 30ft)  1. Ilex οραια  2.  3.  4.  5.  6.  7.  8.  Sapling/Shrub Stratum (Plot size: 30 ft x 30 ft)  1. None  2.  3.	% Cover  -5	Species'  Y  = Total Co	wer r: 3	Dominance Test worksheet:   Number of Dominant Species
4. 5. 6. 7. 8.  50% of total cover:  Herb Stratum (Plot size: 30ft x 30ft)  1. Arun dinaria gigantea  2. Osmundastrum Linnamomeum  3. Woodwardia areolata  4. 5. 6. 7. 8. 9. 10. 11.	0 20% of 5 10	= Total Co total cove	FACW FACW OBL	Prevalence Index = B/A =
50% of total cover: 10  Woody Vine Stratum (Plot size: 30ft x 30ft)  1. Vitis rotundifolia 2. Smilax rotundifolia 3. 4. 5. 50% of total cover: 10  Remarks: (If observed, list morphological adaptations below	20% of 10 10 20% of 20% of	= Total Co total cover	FAC FAL	Hydrophytic Vegetation Present?  Yes No

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features	56
(inches) Color (moist) % Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
	muckyL
6-20 104R2/1 100	SL
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U	and the second of the second o
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) 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) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Very Shallow Dark Surface (TF12)     Other (Explain in Remarks)
Depleted Below Dark Surface (A11)  Depleted Ochric (F11) (MLRA 151)	Office (Explain in Nemarks)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	T) <sup>3</sup> Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	1001
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14:	3000 filosopo e como escue para escue para escue e
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:	Hydric Soil Present? Yes No
Depth (inches):	Hydric Soll Present? Yes No
Remarks:	



Wetland data point wsuo045f\_w facing southeast.



Wetland data point wsuo045f\_w facing northeast.

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: A CP	City/County: 5 wffo 1 K Sampling Date: 10/11/11
Applicant/Owner: Dominion	.10
Investigator(s): ESI-Turnbull, Roper	
	Local relief (concave, convex, none): Lon Love Slope (%): D-3'
Landform (nillislope, terrace, etc.): STATITATE	74737 Long: -7 6, 69 132 Datum: W 658
Soil Map Unit Name: Rains fine sandy 10	
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	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	3
	Is the Sampled Area
Hydric Soil Present?  Wetland Hydrology Present?  Yes No	within a Wetland? Yes No
Remarks:	
	ain 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	3) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	(LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide O	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosphe	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduce	
	tion 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:	n: NA
Surface Water Present? Yes No Depth (inches)	7
Water Table Present? Yes No Depth (inches)	
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	): > 7.0 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s, previous inspections), if available:
Pomorke.	
Remarks:	
w .	

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)		Species?		
1. Fagus grandifolia		N	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:
	15	- V	FAC	Illat We OBL, FACW, of FAC (A)
2. Ilex opaca				Total Number of Dominant
3. Liriodendron tolipifera	12		FACU	Species Across All Strata: (B)
· Dies andarium	10		FAC	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:    B31/2 (A/B)
6				Illat We OBL, FACW, of FAC.
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	11-			
	45	= Total Cov	er	OBL species x 1 =
50% of total cover: 22.	5 20% of	total cover	9	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30f4 x30f4)				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
2				Column Totals: (A) (B)
3				Coldmit Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
				1 - Rapid Test for Hydrophytic Vegetation
7				√ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 30f+ x 30f+)				1
1. Arundinaria gigantea	5	V	CHIL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(17)				
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				than 5 m. DBH and greater than 5.20 it (1 m) tail.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				NAV
11				Woody vine - All woody vines greater than 3.28 ft in height.
				neight.
12				
7 6		= Total Cov		
50% of total cover: 2.5	20% of	total cover		
Woody Vine Stratum (Plot size: 3DH x 3DH)				
1. Vitis cotundifolia	5	Y	FAC	
2. Smilax rotunditolia	10		FAC	
Z. Jm. lax lululisticità		-	1710	
3				
4				
5				Hydrophytic
	15	= Total Cov	er	Vegetation /
50% of total cover: 7.5		total cover	7	Present? Yes No
		total cover		
Remarks: (If observed, list morphological adaptations belo	W).			

Sampling Point:

Depth	cription: (Describe Matrix	to the depti		x Features			45501100 51	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture		Remarks	
0-3	10YR2/1	100					SL			
3-16	104R3/2	100	2				5			
16-20	10484/2	95	IDYR 46	5	-	M	5			
10 00	11/10		11							
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: P	L=Pore Li	ning, M=Matrix	
Hydric Soil	Indicators: (Applic	able to all L	RRs, unless othe	rwise note	d.)		Indicators fo	r Probler	natic Hydric S	olls <sup>3</sup> :
Histoso			Polyvalue Be					ck (A9) (L		
	pipedon (A2)		Thin Dark Su					ck (A10) (		
	istic (A3)		Loamy Muck			0)			18) (outside M	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		-2)				in Soils (F19) ( Loamy Soils (F	
	Bodies (A6) (LRR F	T II)	Redox Dark		5)		200 000 000 000 000 000	153B)	Loanly Gons (F	20)
	ucky Mineral (A7) (LI	-	Depleted Da					ent Materia	al (TF2)	
_	resence (A8) (LRR L		Redox Depre						Surface (TF12	)
	uck (A9) (LRR P, T)	•	Marl (F10) (L		-			xplain in F	the state of the s	
Deplete	d Below Dark Surfac	e (A11)	Depleted Oc	hric (F11) (	MLRA 15	1)				
Thick D	ark Surface (A12)		Iron-Mangan	ese Masse	s (F12) (L	.RR O, P, 1	•	-	rophytic vegeta	
	rairie Redox (A16) (I					U)		-	gy must be pre	
Name and Address of the Control of t	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric			4500	unles	s disturbe	d or problemati	C.
	Gleyed Matrix (S4)		Reduced Ver	2 2 2			141			
	Redox (S5) 1 Matrix (S6)		Piedmont Flo				A 149A, 153C, 1	53D)		
	rface (S7) (LRR P,	s. T. U)	/1011/21003	Jingin Loan	13 00113 (1	20) (1112117	1437, 1330, 1	550,		
	Layer (if observed)									
Type:	388. 74		_							
Depth (in	ches):						Hydric Soll Pr	resent?	Yes	No X
Remarks:										
		00000000								



Upland data point wsuo045\_u facing southwest.



Upland data point wsuo045\_u facing northwest.

#### WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

ALD.	County: Suffork Sampling Date: 10/11/16
Applicant/Owner: Pominion	State: N C Sampling Point: WSwo 0 44 f
Investigator(s): ESI-Turn bull, Roper Sect	
	I relief (concave, convex, none): Loncove Slope (%): D - 3'/
Subregion (LRR or MLRA): LRR T Lat: 36,74	807 Long: -76.69085 Datum: W6585
Soil Map Unit Name: Pains fine sandy loar	
Are climatic / hydrologic conditions on the site typical for this time of year?	/
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	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	within a wetland?
Remarks:	1 11:10 771 5 [ 000x 11"]
(Hurricane Matthew) Heavy re	ain within 72hrs. [approx. 11"]
NCWAM: Headwater Forest	
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	(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 In	on (C4) Crayfish Burrows (C8)
✓ Drift Deposits (B3) Recent Iron Reduction is	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	
Iron Deposits (B5) Other (Explain in Remai	200 A. A. C.
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water-Stained Leaves (B9) Field Observations:	Sphaghum moss (Do) (ERR 1, D)
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	4
Saturation Present? Yes No Depth (inches):	Surfue   Wetland Hydrology Present? Yes No
(includes capillary fringe)	Wettarid Hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
	*
	×

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

2.61		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30f+ x 30f+)		Species?		Number of Dominant Species That Are ORL FACW or FAC:  (A)
1. Ilex opara			FAC	That Are OBL, FACW, or FAC:O (A)
2. Liguidambar styraciflua	15	-	FAC	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Bassalana Indaussalahaati
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	25	= Total Cov	er	OBL species x 1 =
50% of total cover: 12	5 20% of	total cover	5	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x 30ft)				FAC species x 3 =
1. Liqustrum sinense	20	4	FAL	FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
0	20	= Total Cov	ar.	3 - Prevalence Index is ≤3.0¹
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30ft x 30ft)	20 /0 01	total cover.		
	10	V	FALW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Avundinaria gigantea 2. Ligostrum sinense	15	4	FAL	Definitions of Four Vegetation Strata:
_ 1				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				neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
1-	25	= Total Cov	rer	
50% of total cover: 12.	5 20% of	total cover	5_	
Woody Vine Stratum (Plot size: 30ft x 30ft)		4.7		
1. Smilax rotundifolia	15		FAC	
2. Toxilodendron radicans	10	<u>y</u>	FAC	
3. Vitis cotundifolia	10		FAC	
4.			7000 0000000000000000000000000000000000	
5.				Hydrophytic
	35	= Total Cov	er	Vegetation
50% of total cover: 17 15				Present? Yes No
Remarks: (If observed, list morphological adaptations beld				
Trainants. (II observed, iist morphological adaptations bette	, , ,			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of Indicato	ors.)	
Depth	Matrix			x Features						
(inches)	2.57 6/2	%	Color (moist)	%	Type	Loc			Remarks	
0-1		106						-		
1-12	2.5 / 3/1	100					_5			
12-20	2.5 Y3/2	100					_ ک			
								2		
¹Type: C=Co	oncentration, D=Dep	letion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore L	ining, M=Matrix	ί.
	ndicators: (Applic								matic Hydric S	
Histosol	(A1)		Polyvalue Be	low Surfac	ce (S8) (L	RR S, T, U	1 cm N	luck (A9) (L	RR O)	
	ipedon (A2)		Thin Dark Su					luck (A10)		
Black His	stic (A3) n Sulfide (A4)		Loamy Mucky Loamy Gleye			0)			18) (outside Main Soils (F19)	
	Layers (A5)		Depleted Mat		(2)				Loamy Soils (F	
_	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			RA 153B)		
	cky Mineral (A7) (LF		Depleted Dar				_	arent Materi		V2
	esence (A8) (LRR U	1)	Redox Depre		3)				Surface (TF12	2)
	ck (A9) ( <b>LRR P, T)</b> I Below Dark Surfac	e (A11)	Marl (F10) (L Depleted Oct		(MLRA 15	i1)	Other	Explain in F	temarks)	
	rk Surface (A12)	- ( )	Iron-Mangan				T) <sup>3</sup> Indic	ators of hyd	drophytic veget	ation and
	airie Redox (A16) (N		Umbric Surfa			U)			ogy must be pr	200000000000000000000000000000000000000
	ucky Mineral (S1) (L	LRR O, S)	Delta Ochric			0.4.4608)	unle	ess disturbe	d or problemat	ic.
_	leyed Matrix (S4) edox (S5)		Reduced Ver Piedmont Flo				9A)			
_	Matrix (S6)						149A, 153C	, 153D)		
	face (S7) (LRR P, S			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Restrictive L	.ayer (if observed):									
Туре:			_						/	
	:hes):		_				Hydric Soil	Present?	Yes	No
Remarks:										



Wetland data point wsuo044f\_w facing north.



Wetland data point wsuo044f\_w facing east.

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ALP City/	County: Suffolk Sampling Date: 10/11/16
Applicant/Owner: Dominion	State: V A Sampling Point: W5W0 094 _ L
Investigator(s): ESI-Turn boll, Roper Sect	ion, Township, Range: None
	al relief (concave, convex, none): LONLOVE Slope (%): 0-31/
Subregion (LRR or MLRA): LRRT Lat: 36,74	807 Long: -76,69085 Datum: W(+584
Soil Map Unit Name: Rains fine sandy loan	NWI classification: NA
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, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS - Attach site map showing sar	mpling 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	within 72 hrs. [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) (LR	
Saturation (A3) Hydrogen Sulfide Odor (	
Water Marks (B1) Oxidized Rhizospheres	along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Inc	on (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in	n 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 Remar	rks) 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):	
Water Table Present? Yes No Depth (inches):	>20
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	avious inspections), if available:
Remarks:	
Transfer.	
	E.

20[1 20[1		Dominant		Dominance Test worksheet:
1. Liquidambar Stycaciflua		Species?	FAL	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Pinus taeda	5	N	FAL	That Are OBL, FACW, or FAC:(A)
	ID		FACU	Total Number of Dominant
	10		11100	Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 / (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	3D	= Total Cov	er	OBL species x 1 =
50% of total cover: 15				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30ft x30ft)				FAC species x 3 =
1. Liqustrum sinense	25	Y	FAC	FACU species x 4 =
2.				UPL species x 5 =
3.				Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
	25	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.5				Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30f+ x30f+)		10121 00101		11-2-1-1-1-1
1 Arundinacia gicantea	10	V	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Arundinacia gigantea 2. Phytolacia americana	10	Ý	FACU	Definitions of Four Vegetation Strata:
3. Rubus arqutus	10	V	FAC	
			A STATE OF THE PARTY OF	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 than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 m. Don and greater than 3.20 ft (1 m) tan.
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				
	per-	= Total Cov		
50% of total cover: 15	20% of	total cover:	_ Lp	
Woody Vine Stratum (Plot size: 30ft x 30ft)		. 1	F 1 - 11	inc.
1. Parthenocissus quinque tolia	10		FACU	
2. Vitis cotunditotia	20	<del>-</del>	FAC	
3. Smilax rotunditolia	15	<u>y</u>	FAC	
4. Wisteria frutescens	10	N	FACW	
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover: 27.5	20% of	total cover:	_11_	Present? Yes No
Remarks: (If observed, list morphological adaptations below	w).			

SOIL

	cription: (Describe	to the dept				or confirm	the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type	Loc <sup>2</sup>	Texture	Remarks	4
0-3	104241	100	Coo (most)		1700		SL	Homans	
3-10	10 YR 3/3						5		
		100					<u> </u>		
10-20	10484/3	100							
			non- Santia Sha Santia m						
									4
				-					
1Time: C=C	oncentration, D=De	plotion DM-	Reduced Matrix M	C-Maska	d Cond Cr		21 contion: DI -I	Pore Lining, M=Matr	ly
	Indicators: (Appli					1115.		roblematic Hydric	
Histosol			Polyvalue Be			RR S. T. U		(A9) (LRR O)	
	pipedon (A2)		Thin Dark St					(A10) (LRR S)	
Black Hi	istic (A3)		Loamy Muck	y Mineral	(F1) (LRR	0)		ertic (F18) (outside	
	en Sulfide (A4)		Loamy Gley		(F2)			oodplain Soils (F19	
	d Layers (A5)	D T III	Depleted Ma		E6)			Bright Loamy Soils	(F20)
	Bodies (A6) (LRR I Joky Mineral (A7) (L		Redox Dark Depleted Da				(MLRA 15 Red Parent	Material (TF2)	
_	resence (A8) (LRR I		Redox Depre					w Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (I		and the			ain in Remarks)	ecoto
	d Below Dark Surface	ce (A11)	Depleted Oc				2	22 Pa 22 Pa 23	2020
	ark Surface (A12)	*** ** 4504	Iron-Mangan			Section 19 Contract 19 Contrac		of hydrophytic vege	
_	rairie Redox (A16) ( Jucky Mineral (S1) (		Umbric Surfa Delta Ochric	, ,		, u)		hydrology must be p sturbed or problema	
	Sleyed Matrix (S4)	LIIII 0, 0,	Reduced Ve		10.5	OA, 150B)	4111033 41	starbed or problem	
	Redox (S5)		Piedmont Flo		•		9A)		
Stripped	Matrix (S6)		Anomalous I	Bright Loa	my Soils (i	=20) (MLR/	A 149A, 153C, 153	D)	
	rface (S7) (LRR P,								
2222300000	Layer (if observed)	):							
Type:									No /
	ches):						Hydric Soil Pres	ent? Yes	NO
Remarks:									



Upland data point wsuo044\_u facing west.



Upland data point wsuo044\_u facing south.

WETLAND DETERMINATION DATA FO	RM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP City	y/County: Suffolk Sampling Date: 1/5/16 State: V A Sampling Point: 54003Zfw
Applicant/Owner: Dominion Machiney	State: V A Sampling Point: Sapus 2+ w
FCT MC: H N MUCALCEY SO	ction Township Range: NA
Investigator(s): EJT - 711. SATTATION OF A LOCAL	cal relief (concave, convex, none): Concave Slope (%):
Landform (Millstope, terrace, etc.).	cal relief (concave, convex, none): Concave Slope (%): 17578 Long: 76.6878 Datum: WGS    Oncave Slope   Slope   Docume   Oncave Slope   Slope   Slope   Slope   Oncave Slope   Slope
Subregion (LRR or MLRA):	1 D-41, 50005 NWI classification: PFO6F
Soil Map Unit Name: Kenansville Toaying Savie	(If no explain in Remarks )
Are climatic / hydrologic conditions on the site typical to	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks:	
NCWAM: Riverine Swam	A Forest
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 Od	lor (C1) Moss Trim Lines (B16)
Water Marks (B1)	res along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
=	[7] a 11 Basilian (D2)
Algal Mat or Crust (B4)  Thin Muck Surface (Control of the Control	
I non Deposits (20)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Out on Water Present? Ves V No. Depth (inches):	5
Wester Table Present? Yes V No Depth (inches):	Surface
Saturation Present? Yes No Depth (inches):	surface   Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos	
Describe Recorded Data (stream gauge, monitoring well, action priores	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:	
, community	

Sampling Point: WSup032fw

302123021	Absolute	Dominant	Til Michael Cardonal State	Dominance Test worksheet:	
Tree Stratum (Plot size: 30ff x 30ff)  1. Taxodium distichum	10	Species?	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2. Nyssa biflora 3. Liquidamber styraciflua	30	4	FAC	Total Number of Dominant Species Across All Strata:	(B)
4. Acer rubrum	20	<u> </u>	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
6		_		Prevalence Index worksheet:	-
7		-		Total % Cover of: Multiply by:	
8		_		OBL species x 1 =	
50% of total cover: 50		= Total Cov		FACW species x 2 =	
	20% of	total cover		FAC species x 3 =	35.0
Sapling/Shrub Stratum (Plot size: 30ft × 30ft)	-	N	encil	FACU species x 4 =	4.0
1. Clethra alnifolia		7	FACW	UPL species x 5 =	
2. I/ex opaca	_5_		FAC	Column Totals: (A)	
4				Prevalence Index = B/A =	_
5	Acres	No seem		Hydrophytic Vegetation Indicators:	
6		1000		1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	1 55
8				3 - Prevalence Index is ≤3.01	752
		= Total Cov	and the same of th	Problematic Hydrophytic Vegetation <sup>1</sup> (Explai	in)
50% of total cover:5	20% of	total cover			
Herb Stratum (Plot size: 30ft x 30ft)  1. Boehmeria Exlindrica	5	Y	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology r be present, unless disturbed or problematic.	nust
2.				Definitions of Four Vegetation Strata:	A THE
3.					
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 more in diameter at breast height (DBH), regardl	
5/				height.	C33 01
[10] [10] [10] [10] [10] [10] [10] [10]				S. U. 18t. It. Westerless audited visco	loss
6 7				Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) tall	, less
8				Herb - All herbaceous (non-woody) plants, rega	rdless
9				of size, and woody plants less than 3.28 ft tall.	
10.			$\overline{}$	Woody vine - All woody vines greater than 3.28	ft in
11.		100		height.	1000
12					
7	5	= Total Co			1990
50% of total cover:	20% of	f total cover	:	The state of the s	
Woody Vine Stratum (Plot size: 30 H x 30 H)	yes	V	-nc	s 1×	
1. Gelsemium semper virens		$\perp$	FAC		
2.		-			
3.					
4					
5	100 - 10			Hydrophytic	
	-	= Total Co	/er	Vegetation Present? Yes No	
50% of total cover: 2.5	20% of	f total cover	:	Presentr resNo	
Remarks: (If observed, list morphological adaptations belo	ow).		Carry Production	An example of the second section of the section of	
7					
	-01 A.M -11.	L - EU			

-	-	
	7	

Sampling Point: Wsup 032f w

Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Black Histic (A3)  PolyR 2/2 100  Organic fibrous organic  Thorw organic  Fibrous organic  Fibrous organic  Fibrous organic  Fibrous organic  All brown  Pucky  Polyvalue Selaced Matrix, MS=Masked Sand Grains.  PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  Reduced Vertic (F18) (outside MLRA 150A,	(inches)	Matrix Color (moist)	% (	Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
// Indicators (Applicable to all LRRs, unless otherwise noted.)  // Histosol (A1)				Coloi (Illoist) 78 Type Loc	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)				N. Chicago and J. S. Maria and S. Carriera	
Histosol (A1)	-50	104K311	100		Muchy Muchy
Histosol (A1)					<u> </u>
Histosol (A1)			-		
Histosol (A1)			-		11 82
Histosol (A1)	1504 140	The second			
Histosol (A1)				The second secon	•
Histosol (A1)					
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Corganic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F6) Muck Presence (A8) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O, S) Depleted (S9) (LRR O, P, T) Depleted Matrix (F2) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Reduced Vertic (F11) (MLRA 151) Redox Dark Surface (F7) Marl (F10) (LRR U) Depleted Dehic (F17) (MLRA 151) Depleted Below Dark Surface (A12) Umbric Surface (F13) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No				프 이 보고 있는 것이 되었다. 이번 사람들은 전에 되었다면 이번 생각이 되었다. 그리고 있는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	11
Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A7) (LRR P, T, U) Depleted Matrix (F3) Stratified Layers (A6) (LRR P, T, U) Depleted Matrix (F3) Redox Dark Surface (F6) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Delow Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No	-		Ť		그리고 시골
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Scr Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Dark Surface (F1)  Marl (F10) (LRR U)  Depleted Ochric (F11) (MLRA 151)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Deta Ochric (F18) (MLRA 150A, 150B)  Dark Surface (S7) (LRR P, S, T, U)  Destrictive Layer (if observed):  Type:  Depth (inches):  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No			Ī		Reduced Vertic (F18) (outside MLRA 150A,
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Fight Surface (A6) Cran Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6) Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type:  Depleted Matrix (F3) Redox Dark Surface (F6) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic.  Wetland hydrology must be present, unless disturbed or problematic hydrology must be present, unless			Ì		Piedmont Floodplain Soils (F19) (LRR P, S,
S cm Mucky Mineral (A7) (LRR P, T, U)			Ī	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
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) Iron-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic.  Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B)  Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type: Depth (inches):	Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark Surface (F6)	
1 cm Muck (A9) (LRR P, T)				Depleted Dark Surface (F7)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed): Type: Depth (inches):  Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 0, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F18) (MLRA 151) Netrictive Layer (if observed):  Hydric Soil Present?  Yes  No  Hydric Soil Present?  Park Surface (A12)  Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic.  No Hydric Soil Present?  Hydric Soil Present?  No	Muck P	resence (A8) (LRR U	J) _		
Thick Dark Surface (A12)    Ton-Manganese Masses (F12) (LRR O, P, T)   Iron-Manganese Masses (F12) (LRR O, T)			Ī		Other (Explain in Remarks)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic.  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 149A)  Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No			e (A11)		
Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Delta Ochric (F17) (MLRA 151)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No			Ţ	<del></del>	이번 레이트
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No				:	그 것은 살이 가셨습니 것은 회에서 그렇게 하는 것이 되었다면 하는 것이 되었다면 하는 것이 없는 것이 없었다.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  strictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No		그는 살이 얼마나 가는 것이 아름이 살아 있는데 얼마나 하는데 그 것으로 했다.	LRR O, S)		
Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Strictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No			-		
Dark Surface (S7) (LRR P, S, T, U)  strictive Layer (if observed):  Type:  Depth (inches): Hydric Soil Present? Yes No			+	그리다 어느 어느 아는	20 TABLE 2006 CONTROL OF CONTROL OF SERVICE OF
Strictive Layer (if observed):   Type:			L	Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C, 153D)
Type:  Depth (inches): Hydric Soil Present? Yes No					
Depth (inches): Hydric Soil Present? Yes No					
	001(00000000000000000000000000000000000		The second second second		Hadde Sell Becomb Ver V
marks:	11101111111	iches):	TAXABLE DESIGNATION	<u>•</u>	Hydric Soil Present? YesV No
	emarks:				



Wetland data point wsup032f\_w facing north.



Wetland data point wsup032f\_w facing northwest.

	FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP	City/County: Suffolk Sampling Date: 1/5/16 State: VA Sampling Point: WSup 032_4
Applicant/Owner: Pominion	State: VA Sampling Point Wsup 032_4
Investigator(s): ESI - M.Smith, N. Murphroy	Scation Township Banga: NA
Landform (hillslope, terrace, etc.): + 1003plain	
Subregion (LRR or MLRA): LRR T Lat: 36	Long: -76.6879 Datum: WGS
Soil Map Unit Name: Kenansville loamy sand,	U II a 10 DCS INVII Classification.
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prof	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?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  No	Is the Sampled Area within a Wetland?  Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface 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 O	그레이크 아를 마음이 있다. 그는 그는 그는 그는 그는 그는 그를 가게 되었다. 그는 그를 가게 되었다.
	eres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduction Research (B2)	그는 이번 경기 내 가입니다. 그는
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	(1) 전환 기계 전환 기계 전환 기계 전투 전환 기계 전투 전환 기계 전환 전환 기계 기계 전환 전환 기계
Iron Deposits (B5)  Other (Explain in Re	사이스 사용 전 :
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	La
Surface Water Present? Yes No Depth (inches):	HN :
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	: > 20 Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo:	s, previous inspections), if available:
Remarks:	
A 4 1	

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

WSu.	p032_	n
Sampling Point:	100	

1705-1705	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30ft × 30ft		Species?		Number of Dominant Species	
1. ragus granditolia	20	<u>N</u>	FACU	That Are OBL, FACW, or FAC:	(A)
2. Liquidambarstyraciflua	35	<u> </u>	FAC	Total Number of Dominant	
3. Ilex opaca	25		FAC	Species Across All Strata:	(B)
4. Prunus serotina	25	<u> </u>	FACU	Percent of Dominant Species 1 1	
5				That Are OBL, FACW, or FAC:	(A/B)
6.					
7.				Prevalence Index worksheet:	
8.				Total % Cover of: Multiply by:	-
	105	= Total Cov	er_ ,	OBL species x 1 =	
50% of total cover: 52	5 20% of	total cover:	21	FACW species x 2 =	-
Sapling/Shrub Stratum (Plot size: 30ff x 30ff)				FAC species x 3 =	
1. Ilex opaca	15	Y	FAC	FACU species x 4 =	- 1
2. Fagus grandifolia	5	N	FACU	UPL species x 5 =	-
3. Carra cordiformis	20	V	FAC	Column Totals: (A)	_ (B)
Pages and the American Indian and the control of th					
4				Prevalence Index = B/A =	_
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7		-		2 - Dominance Test is >50%	
8	11-			3 - Prevalence Index is ≤3.01	
2 -	90	= Total Cov	er 🥏	Problematic Hydrophytic Vegetation <sup>1</sup> (Explai	n)
50% of total cover: 20	20% of	total cover:			
Herb Stratum (Plot size: 30 + x 3 off)				<sup>1</sup> Indicators of hydric soil and wetland hydrology n	nust
1. EUDDYMUS americanus	15	<u> </u>	FAC	be present, unless disturbed or problematic.	
2. Allium canadense	_5_	<u> </u>	FACU	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), regardle	
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.				Heath All heathers we (non-woods) plants, sogge	rdloss
9.				Herb – All herbaceous (non-woody) plants, regal of size, and woody plants less than 3.28 ft tall.	luless
10					
The state of the s				Woody vine – All woody vines greater than 3.28	ft in
11.	-	7		height.	
12.	20				152
EDRY of total course		= Total Cov	14		E 28/11
	20% of	total cover			
Woody Vine Stratum (Plot size: 3041 × 3041)	-0	V	encil	9	
1. Lonicera japonica	50	1	FHOU		
2. Smilax rotundifolia	20	7	FHU		
3. Vitis rotundifolia	10	N	FAC		
4					
5.		And the same		Hydrophytic	
	80	= Total Cov	rer	Vegetation	
50% of total cover: 40		f total cover	1 /	Present? Yes No	
Remarks: (If observed, list morphological adaptations beld		1010.			
Remarks. (II observed, list morphological adaptations better	, , , , , , , , , , , , , , , , , , ,				
77 × 11 p = 21,11					
					7
describes represented to the contract of the c		LUZS WAR	14. 14		

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u.	$\boldsymbol{\Gamma}$	ш		
	u	ш	_	

Sampling Point: WSUP 032\_N

	Matrix		Redox Features		
Depth (inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 3/3	100		loam	
4-20	10 YR 6/6	100		loam	
-					
		1000			
¹Type: C=C	oncentration, D=Depl	letion, RM=R	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
			RRs, unless otherwise noted.)		Problematic Hydric Soils <sup>3</sup> :
☐ Histosol	(A1)		Polyvalue Below Surface (S8) (LRR S, T,	, U) 🔲 1 cm Muck	(A9) (LRR O)
	pipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)		(A10) (LRR S)
Black H	stic (A3)		Loamy Mucky Mineral (F1) (LRR O)		/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matrix (F3)		s Bright Loamy Soils (F20)
	Bodies (A6) (LRR P,		Redox Dark Surface (F6)	(MLRA 1	
	icky Mineral (A7) (LR		Depleted Dark Surface (F7) Redox Depressions (F8)		t Material (TF2) ow Dark Surface (TF12)
	esence (A8) (LRR U) ick (A9) (LRR P, T)	,	Mari (F10) (LRR U)		lain in Remarks)
	d Below Dark Surface	e (A11)	Depleted Ochric (F11) (MLRA 151)	Other (Exp	nam m remarks)
	ark Surface (A12)	. (, , , ,	Iron-Manganese Masses (F12) (LRR O, F	P, T) <sup>3</sup> Indicator	s of hydrophytic vegetation and
	rairie Redox (A16) (N	ILRA 150A)			hydrology must be present,
	Mucky Mineral (S1) (L		Delta Ochric (F17) (MLRA 151)	unless	disturbed or problematic.
Sandy C	Sleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A, 150E		
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA 1		
	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (ML	RA 149A, 153C, 15	3D)
	rface (S7) (LRR P, S				en de la la companya de la companya
	Layer (if observed):				
Type:		The state of the s	<del>-</del>	Undele Cell Des	sent? Yes No
Depth (in	ches):		100 mm = 100	Hydric Soil Pre	sent? Yes No
Remarks:					



Upland data point wsup032\_u facing northwest.



Upland data point wsup032\_u facing southeast.

Project/Site:	WEILAND DI	LILKWINATIO	N DATA FOR	II - Atlantic and	Outi Ooustai i		
	ACP		City/C	ounty: Suffe	ılk	Sampling Date: Sampling Point:	116/16
Applicant/Owner:	Dania	100	Cityro	ounty.	State VA	Sampling Point:	WSUP 033
Applicant/Owner: Investigator(s): _E_5	T. M. Son	ith N. M.	we here senting	an Tournehin Panga	NA		
Investigator(s): Landform (hillslope, te		12221=	Ja Section	m, rownship, Range.	CD(	CAVE Sino	P (%) < 1
Landform (hillslope, te Subregion (LRR or Mi	arrace etc.):	PT	36 76	relief (concave, conv	-76. 6860	2 Day	WGS 8
Subregion (LRR or M	LRA):	<u></u>	Lat: 36.70	Long	70.00	DEO	60
Soil Map Unit Name:	Nansemo	nd loamy	tine sar	nd .	NWI classi	fication:	
Are climatic / hydrolog	gic conditions on th	ne site typical for th	nis time of year? Y	es No	_ (If no, explain in	Remarks.)	
Are Vegetation	_, Sail, or	Hydrology	significantly disturb	bed? Are "Nor	mal Circumstances	present? Yes	No
Are Vegetation					d, explain any ansv	vers in Remarks.)	
SUMMARY OF F					tions, transec	ts, important fe	eatures, etc.
SOMMATCH OF T		1					
Hydrophytic Vegetal	tion Present?		No	Is the Sampled Are	a	,	
Hydric Soil Present?			No	within a Wetland?	Yes_\	No	-
Wetland Hydrology I	Present?	Yes	No				
Remarks:							
		- 11		1 1 -			
NC	WAM:	Bottom	land Ha	rdwood F	-oresi		
HYDROLOGY							
Wetland Hydrology	, Indicators:				Secondary Ind	icators (minimum of	two required)
Primary Indicators (		required check at	I that anniv)		The second of the second secon	oil Cracks (B6)	
and solver the methodical control of the first state of the			c Fauna (B13)			egetated Concave	Surface (B8)
Surface Water (			eposits (B15) (LRF	R U)	Drainage I	Patterns (B10)	
Saturation (A3)			gen Sulfide Odor (C		Moss Trim		
Water Marks (B		Oxidiz	ed Rhizospheres a	long Living Roots (C3	Dry-Seaso	on Water Table (C2)	
Sediment Depo		Preser	nce of Reduced Iron	n (C4)	Crayfish B		
Drift Deposits (		Recen	t Iron Reduction in	Tilled Soils (C6)		Visible on Aerial In	nagery (C9)
Algal Mat or Cri	ust (B4)	Thin M	luck Surface (C7)			nic Position (D2)	
Iron Deposits (8	35)		(Explain in Remark	s)	Shallow A		
Inundation Visit	ole on Aerial Image	ery (B7)			✓ FAC-Neut		
	Leaves (B9)				Sphagnun	n moss (D8) (LRR 7	r, u)
✓ Water-Stained I							and the second of the second o
Field Observations		,		NA			
Chips to per lessing the residual designation of the contract	ent? Yes_		epar (menes).	NA			
Field Observations	ent? Yes_	No D	epth (inches):	8			11-
Field Observations Surface Water Pres Water Table Present? Saturation Present?	ent? Yes	No D	epar (menes).	8	d Hydrology Pres	sent? Yes	No
Field Observations Surface Water Pres Water Table Present Saturation Present?	ent? Yes ht? Yes Yes ringe)	No D	epth (inches): epth (inches):	8 2 Wetlar		sent? Yes	No
Field Observations Surface Water Pres Water Table Present Saturation Present?	ent? Yes ht? Yes Yes ringe)	No D	epth (inches): epth (inches):	8		sent? Yes	No
Field Observations Surface Water Pres Water Table Present Saturation Present?	ent? Yes ht? Yes Yes ringe)	No D	epth (inches): epth (inches):	8 2 Wetlar		sent? Yes	. No

21.2001	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30ft x30ft)  1. Tax odium distichum	40		Status	Number of Dominant Species That Are OBL, FACW, or FAC:	_ (A)
2. Nyssa biflora	50	A STORY OF STREET	DBL	Total Number of Dominant Species Across All Strata:	_ (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 88	_ (A/B)
6.				Prevalence Index worksheet:	Mary - Tr
7.	_		-	Total % Cover of: Multiply by:	
8.	- 00			OBL species x 1 =	
	90	= Total Co	ver 18	FACW species x 2 =	
50% of total cover:	5 20% of	total cover	10	FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: 30ft x30ft)				FACU species x 4 =	
1. Carpinus caroliniana		<u> </u>	FAC	UPL species x 5 =	
	15	<u> </u>	FAC	Column Totals: (A)	THE PERSON NAMED IN COLUMN
3. Ulmus americana	5	N	FAC	Countil Totals (A)	(5)
4	-			Prevalence Index = B/A =	<u> </u>
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.01	
	40	= Total Co	/er 🍮	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	olain)
50% of total cover: 2	O 20% of	total cover	8		
Herb Stratum (Plot size: 30++30+)			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrolog be present, unless disturbed or problematic.	y must
2 Woodwardia areolata			OBL	Definitions of Four Vegetation Strata:	
C har a signal	-	1/1	FACW		
3. Sambueus nigra		- 17	17.000	Tree – Woody plants, excluding vines, 3 in. (7 more in diameter at breast height (DBH), rega	.6 cm) or
				height.	iluless of
5.					
6.				Sapling/Shrub – Woody plants, excluding vin than 3 in. DBH and greater than 3.28 ft (1 m)	tall
7					
8.				Herb - All herbaceous (non-woody) plants, re	gardless
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 Co			
50% of total cover: 27.	5 20% of	total cover	::		
Woody Vine Stratum (Plot size: 30ft y 30ft)			F		
1. Lonicera Japonica	50	<u> </u>	FACU		
2 Smilax rotundifolia	20		FAC		
3.					
4.					
5				Hydrophytic	
	40	= Total Co	ver _	Vegetation	
50% of total cover: 2	the state of the s			Present? Yes No No	-
	Company of March 1974 and July	ACTIVITY OF STREET			
Remarks: (If observed, list morphological adaptations be	iow).				
					manual transfer

Profile Des	cription: (Describe	to the depth	needed to do	cument the	Indicator	or confir	n the absence of Indicato	ors.)
Depth	Matrix		Re	dox Feature	es		Texture	Remarks
(inches)	Color (moist)		Color (moist)	%	Type	Loc	loam	Tromains.
0-3	10482/1	100	-110 =1			- 44	sandy lown	
3-16	10 TR 6/1		104R 5/6	5 10	C	M		
16-20	10YR 3/1	100			4 / 10 / 10 / 10		FSL	
						100		
		700.77						
	oncentration, D=Dep	Jalian DM-1	Reduced Matrix	MS-Maska	d Sand Gr	ains	<sup>2</sup> Location: PL=Pore I	ining, M=Matrix.
Hydric Soll	Indicators: (Applic	able to all L	RRs. unless of	herwise no	ted.)	unis.	Indicators for Proble	matic Hydric Solls <sup>3</sup> :
Histoso		abic to all E	Polyvalue			RR S. T.		[[일본][[일본][[일본][[일본][[일본][[일본][[일본][[일본
Colobbana Artecetebre	pipedon (A2)			Surface (SS			2 cm Muck (A10)	(LRRS)
<ul> <li>Compared to the State of the Compared to the Comp</li></ul>	istic (A3)		Loamy Mi	ucky Mineral	(F1) (LRF		Reduced Vertic (F	18) (outside MLRA 150A,B)
Hydrog	en Sulfide (A4)			eyed Matrix	(F2)		Piedmont Floodpl	ain Soils (F19) (LRR P, S, T) Loamy Soils (F20)
	d Layers (A5)		Depleted		EC)		(MLRA 153B)	Loamy Gons (1 20)
	: Bodies (A6) (LRR P		Co. Distribution responsible results	irk Surface ( Dark Surfac			Red Parent Mater	ial (TF2)
	ucky Mineral (A7) (LI resence (A8) (LRR L		A CONTRACT OF THE PROPERTY OF	pressions (F			Very Shallow Dar	k Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10	(LRR U)			Other (Explain in	Remarks)
Deplete	d Below Dark Surfac	e (A11)	Depleted	Ochric (F11)	(MLRA 1	51)	Secretaria	drophytic vegetation and
	ark Surface (A12)			ganese Mass			yetland hydro	logy must be present,
	Prairie Redox (A16) (			urface (F13) nric (F17) (M			unless disturb	ed or problematic.
	Mucky Mineral (S1) ( Gleyed Matrix (S4)	LKK 0, 3)		Vertic (F18)				
C TO BE THE TOTAL THE TOTA	Redox (S5)		Piedmont	Floodplain 8	Soils (F19)	(MLRA 1	49A)	
(Administration), 7, 69	d Matrix (S6)		Anomalou	us Bright Loa	my Soils (	(F20) (ML	RA 149A, 153C, 153D)	
	urface (S7) (LRR P,							Tay Bers ay pay of the property and as a second sec
	Layer (if observed)							
Type:							Hydric Soil Present?	Yes No
Depth (ir	nches):			Maria Mari			Hydric Son Fresence	STATEMENT STATEM
Remarks:								
A BEST								
10.14								
								a factorist material surface and action of the second



Wetland data point wsup033f\_w facing southeast.



Wetland data point wsup033f\_w facing southwest.

WETLAND DETERMINATION DATA		
Project/Site: ACP	City/County: 54 ffo	State: VA Sampling Date: 1/6//6 State: VA Sampling Point: W54/33_u
Applicant/Owner: Dominion	only/ oddiny :	State: VA Sampling Point: W54 P 133 4
Investigator(s): ESI-M. Smith N. Murphrey	Section, Township, Range:	NA
Landform (hillslope, terrace, etc.): Hillslope		
Subregion (LRR or MLRA): LRR T Lat: 36	7611 Long	76.6860 Datum: WGS 8
Soil Map Unit Name: Kenansville loamy sand		
Are climatic / hydrologic conditions on the site typical for this time of ye		
Are Vegetation, Soil, or Hydrology significantly		nal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr		d, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  Yes No	Is the Sampled Are within a Wetland?	
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		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  High Water Table (A2)		Drainage Patterns (B10)
Saturation (A3)		Moss Trim Lines (B16)
- REMARK OF THE PROPERTY OF TH	neres along Living Roots (C3	Dry-Season Water Table (C2) Crayfish Burrows (C8)
[ 1	ction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface		Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in F		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:	AIA	
Surface Water Present? Yes No Depth (inches Water Table Present? Yes No Depth (inches	320	
Saturation Present? Yes No Depth (inches		d Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if a	available:
Damadia		
Remarks:		
,		