Trac Stratum (Blat size: 30	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1. Acer rubrum	<u>% Cover</u> 40	Species? Yes	FAC	Number of Dominant Species	
	10			That Are OBL, FACW, or FAC: 6 (A)	
2. Liquidambar styraciflua	5	No No	FAC	Total Number of Dominant	
3. Pinus taeda		No	FAC	Species Across All Strata: 7 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 85.71428571 (A/I	B)
6					
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	55:	= Total Cov	er	OBL species x 1 = 0	
50% of total cover:	20% of	total cover:	11	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15)				FAC species x 3 =	
1 Ligustrum sinense	10	Yes	FAC	FACU species x 4 = 60	
2. Acer rubrum	10	Yes	FAC	UPL species 0 x 5 = 0	
3. Magnolia virginiana	10	Yes	FACW	Column Totals:163	3)
				2.04	
4				Prevalence Index = B/A =3.01	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	20			3 - Prevalence Index is ≤3.0 ¹	
45	30	= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:15	20% of	total cover:	6		
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must	
1. Microstegium vimineum	50	Yes	FAC	be present, unless disturbed or problematic.	
2. Lonicera japonica	15	Yes	FACU	Definitions of Four Vegetation Strata:	
3. Athyrium asplenioides	10	No	FAC	Tree Woody plants evaluding vines 2 in (7.6 cm)	or
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of	
5				height.	
6.				Sapling/Shrub – Woody plants, excluding vines, less	c
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	•
8.					
9.				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	S
•••				or size, and woody plants loss than 6.20 it tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	
11				neight.	
12	75				
37.5		= Total Cov	4-		
50% of total cover: 37.5	20% of	total cover:	15		
Woody Vine Stratum (Plot size:)			= . 0		
1. Vitis riparia	3	Yes	FACW		
2. Vitis riparia	3	Yes	FACW		
3					
4					
5				Hydrophytic	
	3 .	= Total Cov	er	Vegetation	
50% of total cover: 1.5		total cover:	0.0	Present? Yes No	
Remarks: (If observed, list morphological adaptations below					
Tromano: (ii observed, not merpheregical adaptations sele	•••				

SOIL Sampling Point: wnac005f_w

Profile Des	cription: (Describe t	o the depth ne	eded to docum	nent the i	ndicator	or confirm	the absence of	of indicators.)
Depth	Matrix		Redox	c Features	3			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 YR 3/1	95 10 \	YR 3/6	5	С	PL	SCL	
			_					
							 -	
¹ Type: C=C	oncentration, D=Depl	etion, RM=Red	luced Matrix, MS	=Masked	Sand Gr	ains.	² Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all LRR	s, unless other	wise note	ed.)		Indicators f	for Problematic Hydric Soils ³ :
Histoso	I (A1)	_	_ Polyvalue Bel	low Surfac	ce (S8) (L	.RR S, T, U)) 1 cm M	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)
Black H	istic (A3)	_	_ Loamy Mucky	Mineral ((F1) (LRR	(O)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)	_	_ Loamy Gleye	d Matrix (I	F2)		Piedmo	nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)	_	Depleted Mat	rix (F3)			Anomal	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U) <u>~</u>	Redox Dark S	Surface (F	6)		(MLR	A 153B)
5 cm M	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)			rent Material (TF2)
	resence (A8) (LRR U)	<u> </u>	_ Redox Depre		3)			nallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	_	_ Marl (F10) (L				Other (E	Explain in Remarks)
	d Below Dark Surface	e (A11)	_ Depleted Och	, ,	•	•		
	ark Surface (A12)		_ Iron-Mangane					ators of hydrophytic vegetation and
	Prairie Redox (A16) (M		_ Umbric Surfa			, U)		and hydrology must be present,
-	Mucky Mineral (S1) (L	RR O, S) _	_ Delta Ochric			04 4500)	unle	ss disturbed or problematic.
-	Gleyed Matrix (S4)	_	_ Reduced Ver				24)	
-	Redox (S5) d Matrix (S6)	_	_ Piedmont Flo				A 149A, 153C,	153D)
	ırface (S7) (LRR P, S	T II)	_ Anomaious B	ngni Loan	ily Solis (rzo) (WERF	4 149A, 133C,	1330)
	Layer (if observed):	, 1, 0)						
_	Layer (ii observed).							
Type:	1 \							V
Depth (in	ches):						Hydric Soil F	Present? Yes No
Remarks:								
Hydric soil pr	esent							



Photo 1 Wetland data point wnac005f_w facing east



Photo 2
Wetland data point wnac005f_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Nash	Sampling Date: 3/10/2015				
Applicant/Owner: DOMINION		State: NC Sampling Point: wnac005s_w				
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Depression						
Subregion (LRR or MLRA): P	36.03090618	77.87693315 Datum: WGS 1984				
Soil Map Unit Name: Wehadkee loam, frequently flooded	Long	NWI classification: PFO1A				
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sign	inificantly disturbed? Are "Normal	Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, e	explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map s	howing sampling point location	ons, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes V	is the Sampled Area	v V v				
Wetland Hydrology Present? Yes ✓ No		Yes No				
Remarks:						
Wetland depression that recieves water inputs from a stream						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic F		Sparsely Vegetated Concave Surface (B8)				
✓ High Water Table (A2) Marl Dep	osits (B15) (LRR U)	✓ Drainage Patterns (B10)				
Saturation (A3) Hydroger	n 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 Ir	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
<u> </u>	k Surface (C7)	Geomorphic Position (D2)				
	cplain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)				
Field Observations:						
Surface Water Present? Yes No Depi						
Water Table Present? Yes No Deprilement Saturation Present? Yes No Deprilement Yes No No Deprilement Yes No No No		hadrologus Brooms 2 Voc. V				
Saturation Present? Yes Vo Depriliment Volume Volum	.n (inches): wetland F	Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if ava	ilable:				
Remarks:						
Wetland hydrology indicators present						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC:7 (A)
2. Liquidambar styraciflua	5	Yes	FAC	Total Niverbay of Dansing of
3. Quercus nigra	5	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4.				(B)
				Percent of Dominant Species That Are ORL FACILITIES 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
		= Total Cov	er	OBL Species X I =
50% of total cover: 12.5	20% of	total cover:	5	FACW species $\frac{33}{40}$ x 2 = $\frac{70}{120}$
Sapling/Shrub Stratum (Plot size: 15)	_			FAC species x 3 =
Alnus serrulata	20	Yes	FACW	FACU species0 x 4 =0
2 Acer rubrum	10	Yes	FAC	UPL species $0 x 5 = 0$
-				Column Totals: 75 (A) 190 (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A = 2.53
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	30	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15	20% of	total cover:	6	
Herb Stratum (Plot size: 5				Indicators of hydric soil and watland hydrology must
1 Arundinaria gigantea	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Liquidambar styraciflua	5	Yes	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, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				anan o mi 22.1 ana groater man o 22 it (1 m) tam
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.				
12.	20	= Total Cov		
50% of total cover: 10				
50 % of total cover.	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations below				1
Tremarks. (II observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wnac005s_w

Depth	cription: (Describe t Matrix			x Feature					,	
(inches)	Color (moist)	%	Color (moist)	% / Cataro	Type ¹	Loc ²	Texture		Remarks	
0-16	10 YR 3/1	100	· · · · · · · · · · · · · · · · · · ·				SL	Mucky mod	difier	
-					-					
				-						<u></u>
					•					_
								-		
¹ Type: C=C	concentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Li	ning, M=Matri	ix.
Hydric Soil	Indicators: (Applica	able to all LR	Rs, unless other	rwise not	ed.)		Indicators	for Problen	natic Hydric	Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow Surfa	ce (S8) (L	RR S. T. U) 1 cm N	/luck (A9) (L	RR O)	
	pipedon (A2)	-	Thin Dark Su					/luck (A10) (
	listic (A3)	-	Loamy Muck							MLRA 150A,B)
	en Sulfide (A4)	-	Loamy Gleye			/				(LRR P, S, T)
	d Layers (A5)	-	Depleted Ma		. –,				Loamy Soils (
	Bodies (A6) (LRR P,	T. U)	Redox Dark		- 6)			RA 153B)	(,
_	ucky Mineral (A7) (LR		Depleted Dai					arent Materia	al (TF2)	
	resence (A8) (LRR U)		Redox Depre						Surface (TF1	2)
	uck (A9) (LRR P, T)	-	Marl (F10) (L		0)			Explain in R		
	ed Below Dark Surface	- (Δ11)	Nan (1 10) (2 Depleted Oc		/MIRA1	51)	Outer	(Explain iii iv	cmarks)	
	ark Surface (A12)	· (A11)	Iron-Mangan	, ,	•	•	T) ³ Indic	ators of hyd	rophytic vege	tation and
	Prairie Redox (A16) (N	II RA 150A)	✓ Umbric Surfa						gy must be p	
	Mucky Mineral (S1) (L		Delta Ochric			, 0,			d or problema	
	Gleyed Matrix (S4)		Reduced Ver			.0Δ 150R)	ann	Jos disturbet	a or problema	illo.
	Redox (S5)	-	Reduced Ver				2.4.1			
	d Matrix (S6)	-					A 149A, 153C	152D)		
	urface (S7) (LRR P, S	T II)	Anomaious L	ongni Lua	illy Solis (rzo) (WEN	4 149A, 133C	, 1330)		
	Layer (if observed):	, 1, 0)					I			
	Layer (ii observed).									
Type:			_							
Depth (ir	nches):		=				Hydric Soil	Present?	Yes	No
Remarks:										
Hydric soil p	resent									
riyano con p	COOM									



Photo 1 Wetland data point wnac005s_w facing east



Photo 2
Wetland data point wnac005s_w facing south



Photo 3
Wetland data point wnac005s_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Nash		Sampling Date: 3/10/2015		
Applicant/Owner: DOMINION			·	State: NC	Sampling Point: wnac005_u		
Investigator(s): Team C	No PLSS in this are						
Landform (hillslope, terrace, etc.): Hill							
Subregion (LRR or MLRA): P							
Soil Map Unit Name: Wehadkee loam	frequently flooded	Lat: State 1					
			_	NWI classific			
Are climatic / hydrologic conditions on							
Are Vegetation, Soil, o				nal Circumstances"	present? Yes No		
Are Vegetation, Soil, o	r Hydrology	naturally problema	atic? (If needed	d, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site mar	showing sam	npling point loca	tions, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes	No					
Hydric Soil Present?	Yes		Is the Sampled Are		🗸		
Wetland Hydrology Present?	Yes	No 🔽	within a Wetland?	Yes	No		
Remarks:							
Data point taken near a paved road s	outh of the wetland						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one i	-			Surface Soil	, ,		
Surface Water (A1)		ic Fauna (B13)			getated Concave Surface (B8)		
High Water Table (A2)		Deposits (B15) (LRF		Drainage Patterns (B10)			
Saturation (A3)		gen Sulfide Odor (0		Moss Trim L			
Water Marks (B1)			long Living Roots (C3				
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Burrows (C8)			
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)				
Algal Mat or Crust (B4)		Muck Surface (C7)		Geomorphic Position (D2)			
Iron Deposits (B5)		(Explain in Remark	(S)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imag	jery (B/)			FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)			
Water-Stained Leaves (B9) Field Observations:				Spnagnum	moss (D8) (LKK I, U)		
	No 🖍 D	lanth (inchas):					
	No <u>'</u> D						
	No <u>'</u> D			d Hydrology Prese	nt? Yes No ✔		
(includes capillary fringe)		. , ,			nt? res No		
Describe Recorded Data (stream gat	uge, monitoring well	, aerial photos, pre	vious inspections), if a	available:			
Remarks:							
No wetland hydrology indicators prese	ent						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1. Quercus alba	50	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Quercus falcata	20	Yes	FACU	Total Number of Dominant
3. Acer rubrum	10	No	FAC	Species Across All Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
6				That Are OBE, I AGW, OF I AG.
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	80			OBL species0 x 1 =0
50% - f + + + 1 40		= Total Cov	er 16	FACW species 20 x 2 = 40
50% of total cover:	20% of	total cover:		FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size:)				FACU species 70 x 4 = 280
1. Ilex opaca	20	Yes	FAC	0 0
2. Liquidambar styraciflua	10	Yes	FAC	UPL species $\frac{0}{140}$ x 5 = $\frac{0}{470}$
3. Pinus taeda	5	No	FAC	Column Totals: (A) (B)
4. Carpinus caroliniana	5	No	FAC	Prevalence Index = B/A = 3.35
5.				Trevalence mack = B/A =
6.				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	40			3 - Prevalence Index is ≤3.0¹
20		= Total Cov	0	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:20	20% of	total cover:	8	
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	20	Yes	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				The Mandaglasta collections in a 2 in (7.0 cm) of
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 than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. Don and greater than 3.20 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	20	= Total Cov	er	
50% of total cover: 10		total cover:		
Woody Vine Stratum (Plot size:30)				
/ lot oleon				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No No
Remarks: (If observed, list morphological adaptations below				1
Tromana. (Il obosivos, list morphological adaptatione bole	•• /.			

SOIL Sampling Point: wnac005_u

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-5	10 YR 4/2	100					S	
5-16	10 YR 5/4	100					S	
·								
					· 			
17	tustian D. Dani		a alice and NA a tuice NA	C Maalaa			21 continue DI	Dana Lining M. Matrix
	oncentration, D=Deple Indicators: (Application)					ams.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol		ibic to all Liv	Polyvalue Be			DD C T II		•
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gleye			-,		loodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	- 6)		(MLRA 1	53B)
5 cm Mu	ucky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)			Material (TF2)
	resence (A8) (LRR U)		Redox Depre		(8)			w Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (Expl	ain in Remarks)
-	d Below Dark Surface	(A11)	Depleted Oc				T) 31	of budges budges as a set of the second
	ark Surface (A12) rairie Redox (A16) (M	I D A 150A\	Iron-Mangan Umbric Surfa					of hydrophytic vegetation and hydrology must be present,
	/lucky Mineral (S1) (L		Delta Ochric			, 0)		isturbed or problematic.
-	Gleyed Matrix (S4)	i (i (0 , 0)	Reduced Ver			0A. 150B)	dilicos d	istarbed or problematic.
-	Redox (S5)		Piedmont Flo				9A)	
-	Matrix (S6)						A 149A, 153C, 153	D)
Dark Su	rface (S7) (LRR P, S,	T, U)						
Restrictive	Layer (if observed):							
Type:			<u>—</u>					
Depth (in	ches):		<u></u>				Hydric Soil Pres	ent? Yes No
Remarks:							l	
No hydric soil	present							



Photo 1 Upland data point wnac005_u facing north



Photo 2 Upland data point wnac005_u facing west

Project/Site: Atlantic Coast Pipeline	City/County: Nash	Sampling Date: 3/11/2015				
Applicant/Owner: DOMINION		State: NC Sampling Point: wnac005f_w				
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Floodplain						
Subregion (LRR or MLRA): P Webadkee loam, frequently flooded	Lat: Long: _	Datum: None				
Soil Map Unit Name: Wehadkee loam, frequently flooded		NWI classification: None				
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norma	l 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 location	ons, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	No within a Wetland?	Yes No				
Hardwood floodplain forest associated with Flat Rock Brawetland.	nch. Recent clear-cut activities have taken	place in the southeastern section outside of the				
HYDROLOGY						
Wetland Hydrology Indicators:	that apply)	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all		Surface Soil Cracks (B6)				
	c Fauna (B13) eposits (B15) (LRR U)	Sparsely Vegetated Concave Surface (B8) <u>✓</u> Drainage Patterns (B10)				
1	gen Sulfide Odor (C1)	Moss Trim Lines (B16)				
	ed Rhizospheres along Living Roots (C3)	·				
	ace of Reduced Iron (C4)					
	t Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin M	uck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)				
Field Observations:						
Surface Water Present? Yes No De						
Water Table Present? Yes No De						
Saturation Present? Yes No De (includes capillary fringe)	epth (inches): Wetland	Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if ava	ailable:				
Remarks:						
Wetland hydrology present						

Trac Stratum (Blat size: 30	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1. Acer rubrum	<u>% Cover</u> 40	Species? Yes	FAC	Number of Dominant Species	
	10			That Are OBL, FACW, or FAC: 6 (A)	
2. Liquidambar styraciflua	5	No No	FAC	Total Number of Dominant	
3. Pinus taeda		No	FAC	Species Across All Strata: 7 (B)	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 85.71428571 (A/I	B)
6					
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	55:	= Total Cov	er	OBL species x 1 = 0	
50% of total cover:	20% of	total cover:	11	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15)				FAC species x 3 =	
1 Ligustrum sinense	10	Yes	FAC	FACU species x 4 = 60	
2. Acer rubrum	10	Yes	FAC	UPL species 0 x 5 = 0	
3. Magnolia virginiana	10	Yes	FACW	Column Totals:163	3)
				2.04	
4				Prevalence Index = B/A =3.01	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	20			3 - Prevalence Index is ≤3.0 ¹	
45	30	= Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover:15	20% of	total cover:	6		
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must	
1. Microstegium vimineum	50	Yes	FAC	be present, unless disturbed or problematic.	
2. Lonicera japonica	15	Yes	FACU	Definitions of Four Vegetation Strata:	
3. Athyrium asplenioides	10	No	FAC	Tree Woody plants evaluding vines 2 in (7.6 cm)	or
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of	
5				height.	
6.				Sapling/Shrub – Woody plants, excluding vines, less	c
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	•
8.					
9.				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	S
•••				or size, and woody plants loss than 6.20 it tall.	
10				Woody vine – All woody vines greater than 3.28 ft in	
11				neight.	
12	75				
37.5		= Total Cov	4-		
50% of total cover: 37.5	20% of	total cover:	15		
Woody Vine Stratum (Plot size:)			= . 0		
1. Vitis riparia	3	Yes	FACW		
2. Vitis riparia	3	Yes	FACW		
3					
4					
5				Hydrophytic	
	3 .	= Total Cov	er	Vegetation	
50% of total cover: 1.5		total cover:	0.0	Present? Yes No	
Remarks: (If observed, list morphological adaptations below					
Tromano: (ii observed, not merpheregical adaptations sele	•••				

SOIL Sampling Point: wnac005f_w

Profile Des	cription: (Describe t	o the depth ne	eded to docum	nent the i	ndicator	or confirm	the absence of	of indicators.)
Depth	Matrix		Redox	c Features	3			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 YR 3/1	95 10 \	YR 3/6	5	С	PL	SCL	
			_					
							 -	
¹ Type: C=C	oncentration, D=Depl	etion, RM=Red	luced Matrix, MS	=Masked	Sand Gr	ains.	² Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all LRR	s, unless other	wise note	ed.)		Indicators f	for Problematic Hydric Soils ³ :
Histoso	I (A1)	_	_ Polyvalue Bel	low Surfac	ce (S8) (L	.RR S, T, U)) 1 cm M	uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)
Black H	istic (A3)	_	_ Loamy Mucky	Mineral ((F1) (LRR	(O)	Reduce	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)	_	_ Loamy Gleye	d Matrix (I	F2)		Piedmo	nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)	_	Depleted Mat	rix (F3)			Anomal	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U) <u>~</u>	Redox Dark S	Surface (F	6)		(MLR	A 153B)
5 cm M	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	(F7)			rent Material (TF2)
	resence (A8) (LRR U)	<u> </u>	_ Redox Depre		3)			nallow Dark Surface (TF12)
	uck (A9) (LRR P, T)	_	_ Marl (F10) (L				Other (E	Explain in Remarks)
	d Below Dark Surface	e (A11)	_ Depleted Och	, ,	•	•		
	ark Surface (A12)		_ Iron-Mangane					ators of hydrophytic vegetation and
	Prairie Redox (A16) (M		_ Umbric Surfa			, U)		and hydrology must be present,
-	Mucky Mineral (S1) (L	RR O, S) _	_ Delta Ochric			04 4500)	unle	ss disturbed or problematic.
-	Gleyed Matrix (S4)	_	_ Reduced Ver				24)	
-	Redox (S5) d Matrix (S6)	_	_ Piedmont Flo				A 149A, 153C,	153D)
	ırface (S7) (LRR P, S	T II)	_ Anomaious B	ngni Loan	ily Solis (rzo) (WERF	4 149A, 133C,	1330)
	Layer (if observed):	, 1, 0)						
_	Layer (ii observed).							
Type:	1 \							V
Depth (in	ches):						Hydric Soil F	Present? Yes No
Remarks:								
Hydric soil pr	esent							



Photo 1 Wetland data point wnac005f_w facing east



Photo 2
Wetland data point wnac005f_w facing north

Project/Site: Atlantic Coast Pipeline	City/County: Nash	Sampling Date: 3/10/2015				
Applicant/Owner: DOMINION		State: NC Sampling Point: wnac005s_w				
Investigator(s): Team C Section, Township, Range: No PLSS in this area						
Landform (hillslope, terrace, etc.): Depression						
Subregion (LRR or MLRA): P	36.03090618	77.87693315 Datum: WGS 1984				
Soil Map Unit Name: Wehadkee loam, frequently flooded	Long	NWI classification: PFO1A				
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sign	inificantly disturbed? Are "Normal	Circumstances" present? Yes No				
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, e	explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map s	howing sampling point location	ons, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes V	is the Sampled Area	v V v				
Wetland Hydrology Present? Yes ✓ No		Yes No				
Remarks:						
Wetland depression that recieves water inputs from a stream						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic F		Sparsely Vegetated Concave Surface (B8)				
✓ High Water Table (A2) Marl Dep	osits (B15) (LRR U)	✓ Drainage Patterns (B10)				
Saturation (A3) Hydroger	n 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 Ir	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
<u> </u>	k Surface (C7)	Geomorphic Position (D2)				
	cplain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)				
Field Observations:						
Surface Water Present? Yes No Depi						
Water Table Present? Yes No Deprilement Saturation Present? Yes No Deprilement Yes No No Deprilement Yes No No No		hadrologu Brooms 2 Voc V				
Saturation Present? Yes Vo Depriliment Volume Volum	.n (inches): wetland F	Hydrology Present? Yes No				
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if ava	ilable:				
Remarks:						
Wetland hydrology indicators present						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC:7 (A)
2. Liquidambar styraciflua	5	Yes	FAC	Total Niverbay of Dansing of
3. Quercus nigra	5	Yes	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
4.				(B)
				Percent of Dominant Species That Are ORL FACILITIES 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
		= Total Cov	er	OBL Species X I =
50% of total cover: 12.5	20% of	total cover:	5	FACW species $\frac{33}{40}$ x 2 = $\frac{70}{120}$
Sapling/Shrub Stratum (Plot size: 15)	_			FAC species x 3 =
Alnus serrulata	20	Yes	FACW	FACU species0 x 4 =0
2 Acer rubrum	10	Yes	FAC	UPL species $0 x 5 = 0$
-				Column Totals: 75 (A) 190 (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A = 2.53
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
	30	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15	20% of	total cover:	6	
Herb Stratum (Plot size: 5				Indicators of hydric soil and watland hydrology must
1 Arundinaria gigantea	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Liquidambar styraciflua	5	Yes	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, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				anan o mi 22.1 ana groater man o 22 ii (1 m) tam
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.				
12.	20	= Total Cov		
50% of total cover: 10				
50 % of total cover.	20% of	total cover:		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No
Remarks: (If observed, list morphological adaptations below				1
Tremarks. (II observed, list morphological adaptations belo	w).			

SOIL Sampling Point: wnac005s_w

Depth	cription: (Describe t Matrix			x Feature					,	
(inches)	Color (moist)	%	Color (moist)	% / Cataro	Type ¹	Loc ²	Texture		Remarks	
0-16	10 YR 3/1	100	· · · · · · · · · · · · · · · · · · ·				SL	Mucky mod	difier	
-					-					
										<u></u>
					•					_
								-		
¹ Type: C=C	concentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location:	PL=Pore Li	ning, M=Matri	ix.
Hydric Soil	Indicators: (Applica	able to all LR	Rs, unless other	rwise not	ed.)		Indicators	for Problen	natic Hydric	Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow Surfa	ce (S8) (L	RR S. T. U) 1 cm N	/luck (A9) (L	RR O)	
	pipedon (A2)	-	Thin Dark Su					/luck (A10) (
	listic (A3)	-	Loamy Muck							MLRA 150A,B)
	en Sulfide (A4)	-	Loamy Gleye			/				(LRR P, S, T)
	d Layers (A5)	-	Depleted Ma		. –,				Loamy Soils (
	Bodies (A6) (LRR P,	T. U)	Redox Dark		- 6)			RA 153B)	(,
_	ucky Mineral (A7) (LR		Depleted Dai					arent Materia	al (TF2)	
	resence (A8) (LRR U)		Redox Depre						Surface (TF1	2)
	uck (A9) (LRR P, T)	-	Marl (F10) (L		0)			Explain in R		
	ed Below Dark Surface	- (Δ11)	Nan (1 10) (2 Depleted Oc		/MIRA1	51)	Outer	(Explain iii iv	cmarks)	
	ark Surface (A12)	· (A11)	Iron-Mangan	, ,	•	•	T) ³ Indic	ators of hyd	rophytic vege	tation and
	Prairie Redox (A16) (N	II RA 150A)	✓ Umbric Surfa						gy must be p	
	Mucky Mineral (S1) (L		Delta Ochric			, 0,			d or problema	
	Gleyed Matrix (S4)		Reduced Ver			.0Δ 150R)	ann	Jos disturbet	a or problema	illo.
	Redox (S5)	-	Reduced Ver				2.4.1			
	d Matrix (S6)	-					A 149A, 153C	152D)		
	urface (S7) (LRR P, S	T II)	Anomaious L	ongni Lua	illy Solis (rzo) (WEN	4 149A, 133C	, 1330)		
	Layer (if observed):	, 1, 0)					I			
	Layer (ii observed).									
Type:			_							
Depth (ir	nches):		=				Hydric Soil	Present?	Yes	No
Remarks:							•			
Hydric soil p	resent									
riyano con p	COOM									



Photo 1 Wetland data point wnac005s_w facing east



Photo 2
Wetland data point wnac005s_w facing south



Photo 3
Wetland data point wnac005s_w facing west

Project/Site: Atlantic Coast Pipeline		City/C	county: Nash		Sampling Date: 3/10/2015		
Applicant/Owner: DOMINION			·	State: NC	Sampling Point: wnac005_u		
Investigator(s): Team C		Section	on, Township, Range:				
Landform (hillslope, terrace, etc.): Hill							
Subregion (LRR or MLRA): P							
Soil Map Unit Name: Wehadkee loam	frequently flooded	Lat: State 1					
			_	NWI classific			
Are climatic / hydrologic conditions on							
Are Vegetation, Soil, o				nal Circumstances"	present? Yes No		
Are Vegetation, Soil, o	r Hydrology	naturally problema	atic? (If needed	d, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - A	Attach site mar	showing sam	npling point loca	tions, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes	No					
Hydric Soil Present?	Yes		Is the Sampled Are		🗸		
Wetland Hydrology Present?	Yes	No 🔽	within a Wetland?	Yes	No		
Remarks:							
Data point taken near a paved road s	outh of the wetland						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one i	-			Surface Soil	, ,		
Surface Water (A1)		ic Fauna (B13)			getated Concave Surface (B8)		
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pa			
Saturation (A3)		gen Sulfide Odor (0		Moss Trim L			
Water Marks (B1)			long Living Roots (C3		Water Table (C2)		
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Bu			
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)		risible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Muck Surface (C7)		Geomorphic Position (D2)			
Iron Deposits (B5)		(Explain in Remark	(S)	Shallow Aquitard (D3) FAC-Neutral Test (D5)			
Inundation Visible on Aerial Imag	jery (B/)				, ,		
Water-Stained Leaves (B9) Field Observations:				Spnagnum	moss (D8) (LRR T, U)		
	No 🖍 D	lanth (inchas):					
	No <u>'</u> D						
	No <u>'</u> D			d Hydrology Prese	nt? Yes No ✔		
(includes capillary fringe)		. , ,			nt? res No		
Describe Recorded Data (stream gat	uge, monitoring well	, aerial photos, pre	vious inspections), if a	available:			
Remarks:							
No wetland hydrology indicators prese	ent						

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?	Status	Number of Dominant Species
1. Quercus alba	50	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Quercus falcata	20	Yes	FACU	Total Number of Dominant
3. Acer rubrum	10	No	FAC	Species Across All Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
6				That Are OBE, I AGW, OF I AG.
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	80			OBL species0 x 1 =0
500/ -f 40		= Total Cov	er 16	FACW species 20 x 2 = 40
50% of total cover:	20% of	total cover:		FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size:)				FACU species 70 x 4 = 280
1. Ilex opaca	20	Yes	FAC	0 0
2. Liquidambar styraciflua	10	Yes	FAC	UPL species $\frac{0}{140}$ x 5 = $\frac{0}{470}$
3. Pinus taeda	5	No	FAC	Column Totals: (A) (B)
4. Carpinus caroliniana	5	No	FAC	Prevalence Index = B/A = 3.35
5.				Trevalence mack = B/A =
6.				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	40			3 - Prevalence Index is ≤3.0¹
20		= Total Cov	0	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:20	20% of	total cover:	8	
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea	20	Yes	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				The Mandaglasta modella side (7.0 an) as
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 than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. Don and greater than 3.20 it (1 iii) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	20	= Total Cov	er	
50% of total cover: 10		total cover:		
Woody Vine Stratum (Plot size:30)				
/ lot oleon				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes No No
Remarks: (If observed, list morphological adaptations below				1
Tromana. (Il obosivos, list morphological adaptatione bole	•• /.			

SOIL Sampling Point: wnac005_u

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	dicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-5	10 YR 4/2	100					S	
5-16	10 YR 5/4	100					S	
·								
					· 			
17	tustian D. Dani		a alice and NA a tuice NA	C Maalaa			21 continue DI	Dana Lining M. Matrix
	oncentration, D=Deple Indicators: (Application)					ams.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol		ibic to all Liv	Polyvalue Be			DD C T II		•
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
	istic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gleye			-,		loodplain Soils (F19) (LRR P, S, T
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	- 6)		(MLRA 1	53B)
5 cm Mu	ucky Mineral (A7) (LR	R P, T, U)	Depleted Da	rk Surface	e (F7)			Material (TF2)
	resence (A8) (LRR U)		Redox Depre		(8)			w Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (Expl	ain in Remarks)
-	d Below Dark Surface	(A11)	Depleted Oc				T) 31	of budges budges as a set of the second
	ark Surface (A12) rairie Redox (A16) (M	I D A 150A\	Iron-Mangan Umbric Surfa					of hydrophytic vegetation and hydrology must be present,
	/lucky Mineral (S1) (L		Delta Ochric			, 0)		isturbed or problematic.
-	Gleyed Matrix (S4)	i (i (0 , 0)	Reduced Ver			0A. 150B)	dilicos d	istarbed or problematic.
-	Redox (S5)		Piedmont Flo				9A)	
-	Matrix (S6)						A 149A, 153C, 153	D)
Dark Su	rface (S7) (LRR P, S,	T, U)						
Restrictive	Layer (if observed):							
Type:			<u>—</u>					
Depth (in	ches):		<u></u>				Hydric Soil Pres	ent? Yes No
Remarks:							l	
No hydric soil	present							



Photo 1 Upland data point wnac005_u facing north



Photo 2 Upland data point wnac005_u facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: ACP Sampling Point: wnag012f_w Applicant/Owner: Downson Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): ______ Slope (%) Subregion (LRR or MLRA): Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Surface Water (A1) 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) __ Algai 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? Depth (inches): Water Table Present? Saturation Present? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: phology present

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

	The state of the s	Sampling Point:
Tree Stratum (Plot size: 50)	Absolute Dominant Indic	ator Dominance Test worksheet:
inco offatalli (Flot size)	% Cover Species? Sta	Number of Dominant Species
1. Hear rulnum	30 V FA	M 1 = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
2. Live apparantulipitera	70 1/ En	That Are OBL, FACW, or FAC:(A)
- Mariana		Total Number of Dominant
3. Magnoba Virginiana	20 J FA	
14		Species Across All Strata: (B)
		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		(AVB)
7		Prevalence Index worksheet:
7		
8		Total % Cover of: Multiply by:
	80 = Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover: _/_	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30)		FAC species x 3 =
Ma (1 lot size:	1 🗸	
1 Magnolia verginiana	LO VEA	CW FACU species x 4 =
2 Her Virginica	//) FA	UPL species x 5 =
3. Acer rubrum	100 — 10	
s. Har rapram	13 V	Column Totals: (A) (B)
4		
5.		Prevalence Index = B/A =
5		Hydrophytic Vagotation Indicators
6		, , , , , ,
7.		
7		2 - Dominance Test is >50%
8		
	= Total Cover	— ☐ 3 - Prevalence Index is ≤3.0¹
3 <i>(</i>	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:/	<u></u>
Herb Stratum (Plot size: ()	,	
1. Houndinaria avmontes	40 1/ 50	Indicators of hydric soil and wetland hydrology must
	70 1	be present, unless disturbed or problematic.
2. Woodwarded deceopata	25 V O	
3. Boshmerta cylindrica	<u>5</u> FA	
- In Cythadalla	<u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5.		height.
5		
6		Sapling/Shrub - Woody plants, excluding vines, less
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0		With 5 in. DDIT and greater than 5.26 it (1 iii) tall.
8		Herb – All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		The state of the s
10		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12.		
	70	-
_	// - T.4-10:	
	= Total Cover	
50% of total cover:		-1
50% of total cover: 3.5	= Total Cover 20% of total cover:	1
50% of total cover:	20% of total cover:	1
		-L
		-Licur'
	20% of total cover:	Lui'
		L C C
		L C tC
		L C tC
		L Lul'
	20% of total cover: 10 10 / FA 10 / FA	Hydrophytic
Woody Vine Stratum (Plot size: 3) 1. Similar Luuri foha 2. Smilar rahundi foha 3. Urtis rahundi foha 4. 5.	20% of total cover:	Vegetation \(\sqrt{'}
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation \(\sqrt{'}
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation \(\sqrt{'}
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation \(\sqrt{'}
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Woody Vine Stratum (Plot, size:) 1. Strate Luuri foha 2. Strate Tohura foha 3. Utto rohum foha 4 5 50% of total cover:	20% of total cover:	Vegetation V
Moody Vine Stratum (Plot size: 3) 1. Similar Runni Folica 2. Smular robust folica 3. Uptis robust folica 4	20% of total cover:	Vegetation V

Sampling Point:	wnag012f_	W
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Profile Description: (Describ		needed to docum	nent the ir	ndicator	or confirm	the absence	of indicators.)
Depth Matrix (inches) Color (moist)	- %	Redo Color (moist)	x Features %	Type ¹	Loc²	Tasakana	D
D-14 104R21		Color (moist)		_ rype	LOC	Texture	Remarks
14-18-104R31						10mm	mucky numeral)
121152	L				51	andyloran	<u> </u>
							
¹ Type: C=Concentration, D=De	epletion, RM=F	Reduced Matrix, MS	=Masked	Sand Gra	ins.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Appl	icable to all L			-		indicators	for Problematic Hydric Solls ³ :
Histosol (A1) Histic Epipedon (A2)		Polyvalue Bei	low Surfac	e (S8) (LI	RR S, T, U		luck (A9) (LRR O)
Black Histic (A3)		Thin Dark Sul	nace (S9) / Mineral (I	(LKK S,) F1) (LRR	() ()		luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)		Loamy Gleye	d Matrix (F	(2)	,	Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)		Depleted Mat	rix (F3)				lous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR 5 cm Mucky Mineral (A7) (I	P, I, U)	Redox Dark S					RA 153B)
Muck Presence (A8) (LRR	-KK F, 1, 0) U)	Depleted Dar					rent Material (TF2) hallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	1	Mari (F10) (Li		,			Explain in Remarks)
Depleted Below Dark Surfa	ce (A11)	Depleted Och	ric (F11) (I	MLRA 15	1)		
Thick Dark Surface (A12) Coast Prairie Redox (A16)	/MI DA 150A\	Iron-Mangane	se Masse	s (F12) (L	RR O, P,		ators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	(INERO, 190A) (LRR O, S)	Umbric Surface Delta Ochric (ce (F13) (L F17) (MLF	.RR P, 1, RA 151)	ψ)		and hydrology must be present, ss disturbed or problematic.
Sandy Gleyed Matrix (S4)		Reduced Vert	ic (F18) (N	ILRA 150	A, 150B)	dille	as disturbed of problematic.
Sandy Redox (S5)		Piedmont Floo	odplain So	ils (F19) (MLRA 149		
Stripped Matrix (S6) Dark Surface (S7) (LRR P,	S T III	Anomalous B	right Loam	y Soils (F	20) (MLR /	A 149A, 153C,	153D)
Restrictive Layer (if observed):			·			
Туре:	•						
Depth (inches):		<u> </u>				Hydric Soil I	Present? Yes No No
Remarks:							100 100 100 100 100 100 100 100 100 100
	1			. 0			_
	10	tydorz	58	i V	D.	کے بیرے	
			- 0-	\sim	NA A	esent	γ
					•		
							1
							1
							



Wetland data point *WNAG012_w* facing east



Wetland data point *WNAG012_w* facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: NASH Sampling Date: 5-21-15 Sampling Point: Wnag012_u Project/Site: Applicant/Owner: Dominion DOWEST Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): _ Hillslope Local relief (concave, convex, none): ______ Slope (%): _____ Subregion (LRR or MLRA): O 263 Long: 77.8825 Soil Map Unit Name: _ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: Not all three para meters **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) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes ____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology preser

Sampling Point: ____wnag012_u

Tree Stratum (Plot size: 30	Absolute	Dominan	Indicator	Dominance Test worksheet:
		Species		Number of Dominant Species
1. Pinus tacala	50		FAC	That Are OBL, FACW, or FAC:(A)
2. Lyrio Dendron tuling Kera	20	V	FACU	
3. Excessur don as bor excu	20	$\overline{\mathcal{J}}$	FACU	Total Number of Dominant
4			1-100	Species Across All Strata: (B)
T				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	0			
		= Total Co		OBL species x 1 =
50% of total cover:	20% of	total cove	r: 18	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:				FAC species x 3 =
1. Oxceden doon be borgan	15		FACU	FACU species x 4 =
Licide (= Line)	- 10			UPL species x 5 =
2 Liriddendron tuligrifera			FACU	
3. Leccinium stamiliseum	_5		FACU	Column Totals: (A) (B)
4				Drovelance Index on B/A
5				Prevalence Index = B/A =
G				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
	35	= Total Co		3 - Prevalence Index is ≤3.0¹
50% of total cover: <i>ί</i> 7. 2	· ن د د -	- 10tal CO	ver 7	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover	:_ <u>/</u>	
Herb Stratum (Plot size:)	~	/		¹Indicators of hydric soil and wetland hydrology must
1. Osminda cinamoneci			FACIN	be present, unless disturbed or problematic.
2. Brundinaria engratea	3	$\overline{}$	FACW	Definitions of Four Vegetation Strata:
3.			(1500	Dominions of Four Vogetation Strate.
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Conline/Church Woody plants avaleding visual lass
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than o in. DBM and greater than 0.20 k (1 in) tak.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Michael Color All Color
11				Woody vine – All woody vines greater than 3.28 ft in height.
12				l noight.
12.	10			
,	<u> </u>	= Total Co	ver 🔿	
50% of total cover:	20% of	total cover	:_ <u></u>	· .
Woody Vine Stratum (Plot size: 30,)	~			
1. Smelan votente bolic	(5)		FAC	
Silver Children	<u>~</u> _	/-	The	
2. VITIS 10 HIMOLITORIA			FAC	
3.				
4				
5				Harton bards
	10:	Total O		Hydrophytic Vegetation
		= Total Co		Present? Yes No
50% of total cover:		total cover	:_ _ _	100
Remarks: (If observed, list morphological adaptations belo	w).			

wnag012_	u
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	wnaguiz u	ı
Sampling Point:		

Profile Description: (Describe to the d	lepth needed to document the indicator or confi	rm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features	_
D-3 10403/2	Color (moist) % Type ¹ Loc ²	Fab (
104(5/2		5And 50% contro small
3-16+ 104R 4/2		
¹ Type: C=Concentration D=Depletion R	RM=Reduced Matrix, MS=Masked Sand Grains.	21
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solls ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T,	— · · · · · · · · · · · · · · · · · · ·
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	· 1
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T,	U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Ochric (F11) (MLRA 151)	
Coast Prairie Redox (A16) (MLRA 15	Iron-Manganese Masses (F12) (LRR O, F	, , , , , , , , , , , , , , , , , , , ,
Sandy Mucky Mineral (S1) (LRR O, S	· · · · · · · · · · · · · · · · · · ·	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	B) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B	unless disturbed or problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 1	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	
Dark Surface (S7) (LRR P, S, T, U)	The second of the second (1 20) (ME	1404, 1000, 1000)
Restrictive Layer (if observed):		
Type:		^/
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		Tryunc son Flesent? Tes No v
	$\lambda \lambda = \lambda \lambda \lambda \lambda$	vic Soil present
	100 rage	we so present
	9	
)

WNAGO12_U



Upland data point *WNAG012_U* facing east



Upland data point *WNAG012_U* facing south

WNAG012 soils



Wetland/upland soils

Project/Site: Atlantic Coast Pipeline	City/County: Nash	Sampling Date: 3/11/2015			
Applicant/Owner: DOMINION		State: NC Sampling Point: wnac006f_w			
Investigator(s): Team C Section, Township, Range: No PLSS in this area					
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conve	x, none): concave Slope (%): 2			
		-77.89102209 Datum: WGS 1984			
Soil Map Unit Name: Rains fine sandy loam					
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					
Are Vegetation, Soil, or Hydrology		d, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site ma	p snowing sampling point loca	tions, transects, important features, etc.			
	No Is the Sampled Are	a			
	No within a Wetland?				
Wetland Hydrology Present? Yes	No				
Remarks:	by containty and finish and any of an administration 18/o	thought application on accounted at all mond. Calle are			
Wetland recieves water inputs from drainage off of near disturbed in the areas around the pond. There are seve					
distance in the dread dround the pond. There are seve	rai dinaii depressionai poolo found ilifougi	out the wettand that support amphibian me.			
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 Conca					
	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)					
	 Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (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):				
Water Table Present? Yes No	Depth (inches): 2				
Saturation Present? Yes _ V No	Depth (inches): 0 Wetland	d Hydrology Present? Yes <u></u> No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we	all parial photos, provious inspections) if s	wailable:			
Describe Recorded Data (stream gauge, monitoring we	ii, aeriai priotos, previous irispectioris), ii a	valiable.			
Remarks:					
Wetland hydrology indicators present					
,					

20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1. Acer rubrum	% Cover 40	Species? Yes	Status FAC	Number of Dominant Species That Are ORL FACW or FAC: 7 (A)
1. Acertabrum 2. Liquidambar styraciflua	25	Yes	FAC	That Are OBL, FACW, or FAC: (A)
			TAC	Total Number of Dominant Species Across All Strata: 7 (R)
3				Species Across All Strata: (B)
				Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	65	= Total Cov		OBL species0 x 1 =0
50% of total cover:32.5			13	FACW species28
	20% 01	total cover:	·	FAC species98
Liquida sala su atura siftua	20	Yes	FAC	FACU species0 x 4 =0
1. Liquidambar styraciilua 2. Acer rubrum	5	No	FAC	UPL species 0 x 5 = 0
3. Quercus nigra		No	FAC	Column Totals: 126 (A) 350 (B)
4				Prevalence Index = B/A =2.77
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8	30			<u>✓</u> 3 - Prevalence Index is ≤3.0 ¹
15		= Total Cov	•	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15	20% of	total cover:	:	
Herb Stratum (Plot size: 5)	15	V	FACW	¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea		Yes		be present, unless disturbed or problematic.
2. Ilex myrtifolia	10	Yes	FACW	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	25	= Total Cov	er	
50% of total cover:12.5	20% of	total cover:	5	
Woody Vine Stratum (Plot size: 30)				
1. Smilax rotundifolia	3	Yes	FAC	
2. Smilax laurifolia	3	Yes	FACW	
3.				
4				
5.				Hydrophytic
	6	= Total Cov	er	Vegetation
50% of total cover:3		total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Terraines. (Il observed, list morphological adaptations belo	vv).			

SOIL Sampling Point: wnac006f_w

Profile Desc	cription: (Describe	to the depth				or confirm	the absence o	f indicators.)
Depth	Matrix			x Feature	1	12	Taritim	Dd -
(inches) 0-10	Color (moist) 10 YR 3/2	<u>%</u> 95 1	Color (moist) 0 YR 3/6	<u>%</u> 5	<u>Type'</u> C	Loc ²	Texture SL	Remarks
0-10	10 1K 3/2	95 1	U 1K 3/0					
10-16	10 YR 5/1	95 1	0 YR 3/6	5	С	M	S	
-								
								·
	-			·	· -			
	oncentration, D=Depl					ains.	² Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Application	able to all LF	RRs, unless other	wise not	ed.)		Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U) 1 cm Mu	uck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Su	rface (S9)) (LRR S,	T, U)	2 cm Mu	uck (A10) (LRR S)
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduce	d Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)			nt Floodplain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Mat	trix (F3)			Anomalo	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P,	, T, U)	Redox Dark S	•	,		(MLR	A 153B)
5 cm Mi	ucky Mineral (A7) (LR	R P, T, U)	Depleted Dar	k Surface	e (F7)			rent Material (TF2)
Muck P	resence (A8) (LRR U)	Redox Depre		8)			allow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (L				Other (E	explain in Remarks)
-	d Below Dark Surface	e (A11)	Depleted Och					
l '	ark Surface (A12)		Iron-Mangan					tors of hydrophytic vegetation and
	rairie Redox (A16) (N		Umbric Surfa			', U)		and hydrology must be present,
	Mucky Mineral (S1) (L	.RR O, S)	Delta Ochric				unles	ss disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver				\	
-	Redox (S5)		Piedmont Flo					4500)
	Matrix (S6)	T	Anomalous B	right Loai	my Soils (F20) (MLR	A 149A, 153C,	153D)
	rface (S7) (LRR P, S						_	
Restrictive	Layer (if observed):							
Type:			<u> </u>					.1
Depth (in	ches):		_				Hydric Soil P	Present? Yes No
Remarks:							•	
Hydric soil pr	esent							



Photo 1 Wetland data point wnac006f_w facing east



Photo 2
Wetland data point wnac006f_w facing north

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Atlantic Coast Pipeline	City/C	County: Nash	Sampling Date: 3/11/2015
Applicant/Owner: DOMINION	,	, <u> </u>	State: NC Sampling Point: wnac006_u
	Secti		
Landform (hillslope, terrace, etc.): Hill Slop	e Local		none): none Slope (%): 5
			7.89121278 Datum: WGS 1984
Soil Map Unit Name: Rains fine sandy loan			NWI classification: None
Are climatic / hydrologic conditions on the s			
			Circumstances" present? Yes No
Are Vegetation, Soil, or Hyd	drology naturally problem	atic? (If needed, e	xplain any answers in Remarks.)
SUMMARY OF FINDINGS – Atta	ch site map showing san	npling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No		
	Yes No	Is the Sampled Area	
	Yes No V	within a Wetland?	Yes No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is req	uired; 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		Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres a		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Solls (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)Other (Explain in Remarl	(0)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery		(5)	Shahow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	(57)		Sphagnum moss (D8) (LRR T, U)
Field Observations:			opnagnammee (20) (21111 1; 0)
Surface Water Present? Yes	No V Depth (inches):		
	No Depth (inches):		
	No Depth (inches):		ydrology Present? Yes No
(includes capillary fringe)			· • — —
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pre	evious inspections), if avai	lable:
Remarks:			
No wetland hydrology indicators present			
No wettand riyurology indicators present			

Trop Stratum (Blot size: 30		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1 Liquidambar styraciflua	% Cover 20	Species? Yes	FAC	Number of Dominant Species That Are OBL FACW or FAC: 8 (A)
Discus to a de	15	Yes	FAC	That Are OBL, FACW, or FAC:8 (A)
2. Prinus taeda 3. Acer rubrum	15	Yes		Total Number of Dominant
3. Acei lubium		165	FAC	Species Across All Strata: 9 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 88.88888888 (A/B)
6				Prevalence Index worksheet:
7				
8				
0.5	50	= Total Cov		OBL species $0 \times 1 = 0$
50% of total cover:25	20% of	total cover:	10	FACW species x z =
Sapling/Shrub Stratum (Plot size:)				FAC species $\frac{90}{5}$ $\times 3 = \frac{294}{20}$
1. Liquidambar styraciflua	20	Yes	FAC	FACU species X 4 =
2. Acer rubrum	10	Yes	FAC	UPL species
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =3.04
5				1 Tevalence mack = B/TC =
6.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
··	30	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 15		total cover:	^	Problematic Hydrophytic Vegetation ¹ (Explain)
50 % of total cover.	20 /6 01	iolai covei.	·	
Herb Stratum (Plot size:	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Athyrium asplenioides		Yes	FAC	Definitions of Four Vegetation Strata:
3 Lonicera japonica		Yes	FACU	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov	er	
50% of total cover: 10	20% of	total cover:	4	
Woody Vine Stratum (Plot size: 30)				
1. Smilax rotundifolia	3	Yes	FAC	
2				
3				
4				
5.				Hydrophytic
	3 .	= Total Cov	er	Vegetation
50% of total cover:1.5		total cover:	0.0	Present? Yes No
Remarks: (If observed, list morphological adaptations below		total bovor.	· ——	1
Remarks. (If observed, list morphological adaptations below	w).			

SOIL Sampling Point: wnac006_u

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redo	x Feature					
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-7	10 YR 2/2	100					S		
7-16	10 YR 4/4	100					S		
·									
					· 				
1Typo: C-C	oncentration, D=Depl	otion DM_D	aduced Matrix MS	S-Mackad	d Sand Gr	nine	2l ocation: DI -	Pore Lining, M=Matrix.	
	Indicators: (Applica					all 15.		Problematic Hydric So	ils³:
Histosol		ibio to all El	Polyvalue Be			DD C T II		•	
	pipedon (A2)		Thin Dark Su					(A3) (LRR S)	
	istic (A3)		Loamy Muck					ertic (F18) (outside ML	.RA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		loodplain Soils (F19) (L	
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anomalous	Bright Loamy Soils (F2	.0)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark	Surface (F	- 6)		(MLRA 1	53B)	
	ucky Mineral (A7) (LR		Depleted Da					Material (TF2)	
	resence (A8) (LRR U)		Redox Depre		8)			w Dark Surface (TF12)	
	uck (A9) (LRR P, T)	(0.4.4)	Marl (F10) (L		/MI DA 4	F4\	Other (Expl	ain in Remarks)	
-	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Ocl Iron-Mangan				T) ³ Indicators	of hydrophytic vegetat	ion and
	rairie Redox (A16) (M	I RΔ 150Δ)	Umbric Surfa					hydrology must be pres	
	/lucky Mineral (S1) (L		Delta Ochric			, •,		isturbed or problematic	
-	Gleyed Matrix (S4)	, -,	Reduced Ver			0A, 150B)			
-	Redox (S5)		Piedmont Flo				9A)		
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils (F20) (MLR	A 149A, 153C, 153	D)	
	rface (S7) (LRR P, S,	T, U)							
Restrictive	Layer (if observed):								
Type:			_						
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No
Remarks:									
No hydric soil	present								



Photo 1 Upland data point wnac006_u facing south



Photo 2 Upland data point wnac006_u facing west

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline		City/C	county: Nash		Sampling Date: 3/11/2015
Applicant/Owner: Dominion				State: NC	Sampling Point: wnab103f_w
Investigator(s): TP, SA		Section	on, Township, Range: No	PLSS in this area	1
Landform (hillslope, terrace, etc.): drain					
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Rains fine sandy le	oam			NWI classific	ation: None
Are climatic / hydrologic conditions on the	e site typical for				
Are Vegetation, Soil, or I	Hydrology	significantly distur	bed? Are "Norma	l Circumstances" p	present? Yes No
Are Vegetation, Soil, or I					
SUMMARY OF FINDINGS – A					
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?		No	Is the Sampled Area within a Wetland?	Vac V	No
Wetland Hydrology Present?		No	within a wettand?	165	NO
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is	required: check	all that apply)		Surface Soil	
Surface Water (A1)	-	True Aquatic Plants (B14)		getated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pa	
Saturation (A3)				Moss Trim L	
Water Marks (B1)	1	Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)
<u>✓</u> Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(Other (Explain in Rer	narks)		tressed Plants (D1)
Iron Deposits (B5)	(DZ)				Position (D2)
Inundation Visible on Aerial Image	ry (B7)			Shallow Aqu	
Water-Stained Leaves (B9) Aquatic Fauna (B13)				✓ FAC-Neutral	aphic Relief (D4)
Field Observations:				TAO Neditai	1031 (00)
	No 🗸	Depth (inches):			
		Depth (inches):	1		
			0 Wetland I	Hydrology Preser	nt? Yes ✔ No
(includes capillary fringe)					··· ··· <u>——</u> ··· <u>——</u>
Describe Recorded Data (stream gaug	e, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

Sampling Point: wnab103f_v	Sampling	Point: wnab103f_	W
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00	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Liquidambar styraciflua	20	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Acer rubrum	20	Yes	FAC	
3. Fraxinus pennsylvanica	10	No	FACW	Total Number of Dominant
	10	No	FAC	Species Across All Strata: (B)
4. Ulmus rubra			170	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				(772)
7		· ·		Prevalence Index worksheet:
7	60			Total % Cover of: Multiply by:
00	:	= Total Cover		
50% of total cover:30	20% of	total cover:	12	OBL species X I =
Sapling/Shrub Stratum (Plot size: 15				FACW species x 2 =
1 Acer rubrum	10	Yes	FAC	FAC species x 3 = 210
2 Liquidambar styraciflua	10	Yes	FAC	FACU species0 x 4 =0
Z				
3				95 240
4				Column Totals: (A) (B)
5				2.02
				Prevalence Index = B/A =2.82
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
<u> </u>	20	= Total Cover		✓ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 10			4	4 - Morphological Adaptations ¹ (Provide supporting
	20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Arundinaria gigantea	5	Yes	FACW	Problematic Hydrophytic Vegetation (Explain)
2				
				¹ Indicators of hydric soil and wetland hydrology must
3		 -		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		· ·		more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
11	5			Herb – All herbaceous (non-woody) plants, regardless
25		= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5	20% of	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
3				
4				Hydrophytic
5.				Vegetation
	0	= Total Cover		Present? Yes No
50% of total cover: 0		total cover:	0	
50 78 OI total cover:		total cover		
Remarks: (Include photo numbers here or on a separate si	heet.)			

Sampling Point: wnab103f_w

SOIL

Profile Des	cription: (Describe t	o the dep	th needed to docu	nent the i	ndicator	or confirm	the abse	nce of indicators.)
Depth	Matrix			x Features	5			
(inches) 0-6	Color (moist) 10YR 2/2	<u>%</u> 100	Color (moist)	<u> </u>	Type ¹	Loc ²	<u>Texture</u> SL	Remarks
6-12	10YR 4/1	95	10YR 4/6	5	С	М	SCL	
						· 		
								_
¹ Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.		: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils ³ :
-			Dark Surface	(97)				_ 2 cm Muck (A10) (MLRA 147)
Histosol	pipedon (A2)		Polyvalue Be	. ,	00 (SS) (N	MI DA 1/17		_ 2 cm Muck (A10) (MLRA 147) _ Coast Prairie Redox (A16)
	istic (A3)		Polyvalue Be				140)	
	en Sulfide (A4)		Loamy Gleye			147, 140)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		<u>✓</u> Depleted Ma		r <i>z)</i>			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	, ,	·6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(Δ11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)	, (, , , , ,	Redox Depre					
	Mucky Mineral (S1) (L	RR N.	Iron-Mangan			LRR N,		
	A 147, 148)	,	MLRA 13		· · · · · · · · · · · · · · · · · · ·	,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6, 122)	:	³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
-	d Matrix (S6)		Red Parent I					unless disturbed or problematic.
	Layer (if observed):					<u> </u>	Í	•
Type:								
	ches):						Hydric \$	Soil Present? Yes No
Remarks:								



Photo 1
Wetland data point wnab103f_w facing northwest



Photo 2Wetland data point wnab103f_w facing southeast

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Atlantic Coast Pipeline		City/C	ounty: Nash		Sampling Date: 3/11/2015
Applicant/Owner: Dominion					Sampling Point: wnab103_u
		Section	on, Township, Range: No	PLSS in this area	1
Landform (hillslope, terrace, etc.): hill slop					
Subregion (LRR or MLRA): P					
Soil Map Unit Name: Rains fine sandy loa	m			NWI classific	ation: None
Are climatic / hydrologic conditions on the	site typical for				
Are Vegetation, Soil, or Hy	drology	significantly distur	bed? Are "Norma	I Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hy					
SUMMARY OF FINDINGS – Atta					
Hydrophytic Vegetation Present?	Yes 🗸		Is the Sampled Area		-
Hydric Soil Present?	Yes		within a Wetland?	Yes	No
Wetland Hydrology Present? Remarks:	Yes	No		·	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is re	auired: check	all that apply)		Surface Soil	
Surface Water (A1)	•	rue Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)		lydrogen Sulfide Od		Drainage Pa	
Saturation (A3)		-	es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	F	Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	F	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)
Drift Deposits (B3)		hin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_ (Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)	(DZ)				Position (D2)
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqui	
Water-Stained Leaves (B9)Aquatic Fauna (B13)				FAC-Neutral	aphic Relief (D4) Test (D5)
Field Observations:				<u></u> 1710 Hould	1031 (20)
	No 🗸	Depth (inches):			
		Depth (inches):			
		Depth (inches):		Hydrology Preser	nt? Yes No ✔
(includes capillary fringe)					
Describe Recorded Data (stream gauge,	monitoring we	ell, aerial photos, pre	vious inspections), if ava	allable:	
Remarks:					
1					

Samo	lina	Point:	wnab103_u

00	Absolute	Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:)			Status	Number of Dominant Species
1. Pinus taeda	20	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Liquidambar styraciflua	15	Yes	FAC	T. 10 1 15
3. Quercus nigra	10	Yes	FAC	Total Number of Dominant Species Across All Strata: 5 (B)
				Species Across Air Strata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Describence in day weather at
7				Prevalence Index worksheet:
	45	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 22.5		total cover:	9	OBL species x 1 = 0
Sapling/Shrub Stratum (Plot size: 15)				FACW species0 x 2 =0
1 Liquidambar styraciflua	5	Yes	FAC	FAC species55
'' <u>'</u>		100	1710	FACU species 0 x 4 = 0
2				0
3				UPL species X 5 =
4				Column Totals: (A) (B)
5				
				Prevalence Index = B/A = 3
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 ¹
	5	= Total Cover		
50% of total cover: 2.5	20% of	total cover:	1	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size:5				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
1				
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Dominiono or Four Togotation Ottata
6		· ·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	0 .	= Total Cover		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cover:	1	or orgon, and moody plante 1995 than orgon train
00/001 total 00/01:	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:) 1 Vitis rotundifolia	5	Yes	FAC	height.
1. Vilis rotundiiolia		165	TAC	
2				
3				
4				
5.		<u> </u>		Hydrophytic
o	5	T-1-1-0		Vegetation Present? Yes No
50% of total cover: 2.5		= Total Cover	1	
0070 01 (0141 00701:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: wnab103_u

SOIL

Depth	Matrix		Redox Features		
inches)	Color (moist)	<u>%</u>	Color (moist) % Type ¹ Loc ²		Remarks
0-4	10YR 2/1	100		SL	
4-12	10YR 4/4	100		SCL	
				_	•
				<u> </u>	
				_	
					· ·
vne: C=Co	oncentration D=Den	oletion RM=Re	educed Matrix, MS=Masked Sand Grains.	² Location: F	PL=Pore Lining, M=Matrix.
	Indicators:	olotion, rawi–ra	eddodd Matrix, Mio-Mashed Carla Crainis.		cators for Problematic Hydric Soils ³ :
_ Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S9) (MLRA 147, 148		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)	,	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	- (Δ11)	Depleted Dark Surface (F7)		Other (Explain in Remarks)
	ark Surface (A12)	e (ATT)	Redox Depressions (F8)	<u> </u>	Other (Explain in Remarks)
	flucky Mineral (S1) (I	I DD N	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)	LIXIX IV,	MLRA 136)		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	3 _{In}	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		retland hydrology must be present,
-	Matrix (S6)		Red Parent Material (F21) (MLRA 127, 1		nless disturbed or problematic.
	Layer (if observed)		Ned Falent Material (F21) (MENA 121, 1	ui	niess disturbed of problematic.
-STRICTIVA I					
	Layer (II observeu)	-			
Туре:		•	_		
Type: Depth (inc		•	-	Hydric Soi	il Present? Yes No
Type: Depth (inc		-	- 	Hydric Soi	il Present? Yes No
Type: Depth (inc		-	_ _	Hydric Soi	il Present? Yes No
Type: Depth (inc			<u>-</u>	Hydric Soi	il Present? Yes No 🗸
Type:			_ 	Hydric Soi	il Present? Yes No <u> </u>
Type: Depth (inc			- -	Hydric Soi	il Present? Yes No <u> </u>
Type:			<u>-</u>	Hydric Soi	il Present? Yes No <u> </u>
Type:			<u>-</u> -	Hydric Soi	il Present? Yes No
Type:			_	Hydric Soi	il Present? Yes No
Type:			_	Hydric Soi	il Present? Yes No
Type:			_	Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Туре:				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Type: Depth (inc				Hydric Soi	il Present? Yes No
Type:				Hydric Soi	il Present? Yes No



Photo 1 Upland data point wnab103_u facing northwest



Photo 2
Upland data point wnab103_u facing southeast

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County:	Nash		Sampling Date: 4	118/15
Applicant/Owner: Dominion			State: NC	Sampling Point: 6	Jnab103F.v
Investigator(s): EST-R. TUINbull, IC. MUIPHYEY	Section, Town	nship, Range:			
Landform (hillslope, terrace, etc.): Flot			поле): <u>СО</u> О С	Sive Slone	(%): <u>0 - 2</u>
Subregion (LRR or MLRA): LRR P Lat: 36,	62177	Laner ~	-77. 8435	\$ Date	m: W65 8
Soil Map Unit Name: Rains Fine Sondy Ivam		Long;		ation: PFO	m: <u>vy 10</u>
Are climatic / hydrologic conditions on the site typical for this time of ye		No	(If no, explain in R		
	•				,
Are Vegetation, Soil, or Hydrology significantly			Circumstances* p		No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(if needed, e	explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling	point location	ons, transects	, important fea	itures, etc.
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes No	I .	Sampled Area	را ا	<u></u>	[
Wetland Hydrology Present? Yes No	Within	a Wetland?	Yes	No	
Remarks:	<u> </u>				
					1
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of t	un required)
Primary Indicators (minimum of one is required; check all that apply))		Surface Soil	•	NO TOGORICO?
Surface Water (A1) Aquatic Fauna (B:				getated Concave S	urface (PS)
Addatic Patha (6 High Water Table (A2) Marl Deposits (B1	· · · · · ·		Sparsely veg		unace (Do)
Saturation (A3) — Hydrogen Sulfide			Moss Trim L		
Water Marks (B1) — Oxidized Rhizospi		ring Roots (C3)		Water Table (C2)	
Sediment Deposits (B2) Presence of Redu	· -	mig roots (GC)	Crayfish Bur	• •	-
Octament Deposits (B2)		Soils (C6)	 •	isible on Aerial Ima	nery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		,Olio (OO)		Position (D2)	9617 (55)
Iron Deposits (B5) Other (Explain in	• •		Shallow Agu		
Inundation Visible on Aerial Imagery (B7)	,		FAC-Neutral	· · ·	
Water-Stained Leaves (B9)				noss (D8) (LRR T,	ຫ
Field Observations:					
Surface Water Present? Yes NoDepth (inche	s): NA	1			
1	3 V ii				
Water Table Present? Yes No Depth (inche Saturation Present? Yes No Depth (inche	:s): 720"	Wetland	Hydrology Preser	nt? Yes	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous in	aspections), if ava	ailable:		
Remarks:					
Remarks.					
·					
					•
					!

Tree Stratum (Plot size: 30をよるの子		Dominant		Dominance Test worksheet:
1. Liliddendun tulipifera	- No Cover	Species?	_	Number of Dominant Species
		<u> </u>	FACU	That Are OBL, FACW, or FAC: (A)
2 Pinus taeda	'5	Ü	FAC	
3				Total Number of Dominant
3				Species Across All Strata: (B)
4				Barrant of Barris and O
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 690 (A/B)
				That Are OBL, FACW, or FAC: 8010 (A/B)
6			-	Prevalence Index worksheet:
7				Prevalence index worksheet;
8				Total % Cover of: Multiply by:
	77.			OBL species x 1 =
		= Total Cov		
50% of total cover: 10	20% of	total cover	:_ H	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 (+1 ×30 fc)				FAC species x 3 =
Capiting/Orling Orlandin (Flot size, OS (17700)	16	17	FAC	FACU species x 4 =
1. Liquidambar Styracifica	12	y		i i
2. Acer rubrum	-5	ý	FAC	UPL species x 5 =
3.				Column Totals: (A) (B)
J	· 			· · · · · · · · · · · · · · · · · · ·
4				Prevalence index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation 1 مرا
7				2 - Dominance Test is >50%
8				l i
U	$\frac{1}{2}$			3 - Prevalence Index is ≤3.01
. •	<u> </u>	= Total Co	/ег	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of	total cover	. 4	
Herb Stratum (Plot size: 30 Ft X 305)				
Held Stratum (Plot size: 500 CR 500)		S. 1	0.1	Indicators of hydric soil and wetland hydrology must
1. Wouldward on areolata		<u>y</u>	OBL	be present, unless disturbed or problematic.
1. Wouldwardin areolata 2 Arundinaria gigantea	5	\exists_{I}	FACW	Definitions of Four Vegetation Strata:
<u> </u>			11.01	Builtions of Four Vegetation Ctrata.
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
				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 tail.
10				
				Woody vine - All woody vines greater than 3.28 ft in
11				height,
12				
		= Total Co		
-			_	
50% of total cover: 7.3	<u>></u> 20% o	ftotal cover	r: <u> </u>	
Woody Vine Stratum (Plot size: ろいとナンシンをす				
1. Smilax votanditolia	۷.	V	FAC	
1. Sittles to totalialistic		——	1110	
2				1 .
3	-			1
· · · · · · · · · · · · · · · · · · ·				
4				
5.				Uvdrophydia
· ·· · · · · · · · · · · · · · · · · ·	5	7-1-1-0-		Hydrophytic
	, —	= Total Co		Vegetation
50% of total cover: 🔬 🦠	<u>>_</u> 20%∘	f total cove	r: <u> </u>	Fleseitt, tes NO
Remarks: (If observed, list morphological adaptations bel				<u> </u>
	O17).			
				· ·
				j
				•
Į				

	cubriou: (neacupe	to me debiu t	seasa to aocat	ent the inal	lcator or c	ontirm	the absence of Indicator	'S.)	
Depth	Matrix			Features					
(inches)	Color (moist)		Color (moist)	<u> </u>	Γγρe' <u>L</u>	.oc²	<u>Texture</u>	Remarks	
10 - 7	10482/1	100_	***				MUCKY 1000	<u>~</u>	
4-8	2.543/1	100	_		····		S		
8-20	2,544/2	100					<u> </u>		
	, , ,								
									
ļ ——									
¹Type: C=C	oncentration, D=Dep	oletion, RM=Re	duced Matrix. MS	=Masked Sa	and Grains		² Location: PL=Pore Lir	ning M=Matrix	
	Indicators: (Applic						Indicators for Problem		
Histosol			Polyvalue Bel		•	S. T. U		-	
Histic E	pipedon (A2)	_	Thin Dark Sui				2 cm Muck (A10) (I		
Black H	istic (A3)	_	Loamy Mucky				Reduced Vertic (F1		150A,B)
	en Sulfide (A4)	_	Loamy Gleye	d Matrix (F2))		Piedmont Floodplai		P, S, T)
	d Layers (A5)	-	Depleted Mat				Anomalous Bright L	oamy Soils (F20)	
1	Bodies (A6) (LRR P	-	Redox Dark S				(MLRA 153B)		
	ucky Mineral (A7) (LI resence (A8) (LRR L		Depleted Dari		<i>(</i>)		Red Parent Materia		
	uck (A9) (LRR P, T)		Redox Depre: Marl (F10) (L1	, ,			Very Shallow Dark		
	d Below Dark Surfac	_	Mari (F10) (L. Depleted Och	-	I R A 151)		Other (Explain in R	emarks)	
	ark Surface (A12)		Iron-Mangane	, ,,	•	R O. P.	T) ³ Indicators of hydr	rophytic vegetation a	and
	rairie Redox (A16) (I	MLRA 150A)					•	gy must be present,	
1	Mucky Mineral (S1) (Delta Ochric				unless disturbed		
Sandy (Gleyed Matrix (S4)	_	Reduced Ver			150B)		·	
I .	Redox (S5)	_	Piedmont Flo						
	i Matrix (S6)	-	Anomalous B	right Loamy	Soils (F20) (MLR	A 149A, 153C, 153D)		
	rfece (S7) (LRR P, S	S. T. U)							
1 B = 4.4 - 41									
<u> </u>	Layer (if observed)						1		
Туре:	Layer (if observed)	:							
Type: Depth (in	Layer (if observed)	:	_				Hydric Soll Present?	Yes No	
Туре:	Layer (if observed)	:	_		· .		Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	_				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	<u>-</u>				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	and delivery was the
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:	-				Hydric Soll Present?	Yes No	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No.	
Type: Depth (in	Layer (if observed)	:					Hydric Soll Present?	Yes No.	

Environmental Field Surveys Wetland Photo Page





Wetland data point wnab103f_w facing southwest.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County:	Nash	Sampling Date: 6/18/15
Applicant/Owner: Dominio		State: N.C.	Sampling Point: Whab 103_u
Investigator(s): ESI-R. TUMBUIL, K.	Mulhagertion Towns	oin Range: NA	camping tome <u>serious years</u>
Landform (hillslope, terrace, etc.): Flort	,	cave, convex, none):CO	nvex slope (%): 0-2
Subregion (LRR or MLRA): LRR P		Long: -77 . 89	
Soil Map Unit Name: Rains Fine Sondy			
, , , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·	
Are climatic / hydrologic conditions on the site typical fo		No (If no, explain	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstanc	es" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any ar	swers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing sampling p	oint locations, transe	ects, important features, etc.
	<u> </u>		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	- No Is the Sa	mpled Area	
Wetland Hydrology Present? Yes	No within a	Wetland? Yes_	No
Remarks:	140		·
			i
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of one is required; check	k all that apply)	Surface	Soil Cracks (B6)
Surface Water (A1) Aqu	ualic Fauna (B13)	Sparsely	y Vegetated Concave Surface (B8)
	rl Deposits (B15) (LRR U)	Drainag	e Patterns (B10)
	drogen Sulfide Odor (C1)	Moss Tr	im Lines (B16)
Water Marks (B1) Oxi	idized Rhizospheres along Living	g Roots (C3) Dry-Sea	son Water Table (C2)
	esence of Reduced Iron (C4)	Crayfish	Burrows (C8)
	cent Iron Reduction in Tilled Soil	is (C6) Saturati	on Visible on Aerial Imagery (C9)
<u> </u>	in Muck Surface (C7)		phic Position (D2)
<u> </u>	ner (Explain in Remarks)		Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)			eutral Test (D5)
Water-Stained Leaves (B9)		Sphagn	um moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	_Depth (inches): NA	-	
Water Table Present? Yes No	Depth (inches): 220	-	
Saturation Present? Yes No No	Depth (inches): 720	_ Wetland Hydrology Pr	resent? Yes No
Describe Recorded Data (stream gauge, monitoring)	well, aerial photos, previous insr	pections), if available:	
,			
Remarks:			
			•

Table 1 out of all of a colonials in		Dominant	Indicator	Deminance Test worksheets
Tree Stratum (Plot size: 30 F+ x 30 F6)		Species?		Dominance Test worksheet:
1. Liviodend Na tulipisera	10	4	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidambar styracistura	15	Ý	FAC	(1)
3. Pinus taeda	5	~ <u>/</u>	FAC	Total Number of Dominant
-	<u> </u>		,	Species Across All Strata: (B)
				Percent of Dominant Species 75% (A/B)
5				That Are OBL, FACW, or FAC: 15 / 5 (A/B)
6				Prevalence Index worksheet:
7				
8.				Total % Cover of: Multiply by:
	3 <i>O</i>	= Total Co	/er	OBL species x1 =
50% of total cover: 15		total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 84 × 3084			`	FAC species x 3 =
1. Liquidamber Starocifica	10	V	FAC	FACU species x 4 =
	· —	N	FAC	UPL species x 5 =
2. TIPE OPACA	· ~~			Column Totals:(A)(B)
3. Liviodendrun tulipisera		<u> </u>	FACU	Column Totals, (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation indicators:
6				
7				2 - Dominance Test is >50%
8.				l
	14	= Total Co		3 - Prevalence Index is ≤3.01
700 CHA		= Total Co	ver 1 K	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7	20% of	total cover	r. <u>A 1 U</u>	
Herb Stratum (Plot size: 3084 x 3084)	_		⊢ ∧	¹ Indicators of hydric soil and wetland hydrology must
1. Athrujum asplenoides		\frac{\frac{\chi}{\chi}}{\frac{\chi}{\chi}} \end{array}} \chi_{\chi}	FAC _	be present, unless disturbed or problematic.
2. A Selenium Protaneurum		_У	FACU	Definitions of Four Vegetation Strata:
3. Moodwardia areolata	2	_Ý	OBL	The Manda last and discrete 2 is (7.0 cm) and
4.		1		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.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Mondy sing All weeds since greater than 2.79 ft in
11				Woody vine - All woody vines greater than 3.28 ft in height.
			-	
12	<u> </u>	- Total O		
	<u></u>	= Total Co		
50% of total cover: 4.	<u></u>	ftotal cove	r: 1, 0	
Woody Vine Stratum (Plot size: 30 ft x 30 ft	^	. 1		
1. Wisteria Frutescens			FACW	1
2 VITIS NOTURE SOLIA	5	У	FAC	
3. Smilax Whundisolia	5	<u> </u>	FAC	
4				
*·			-	
2				Hydrophytic
,	. <u>-12</u>	= Total Co		Vegetation Present? Yes No
50% of total cover:	<u>20%</u> 20% c	of total cove	r: <u>2.4</u>	Present? Yes No
Remarks: (If observed, list morphological adaptations be	low).	***		
1				

epth	cription: (Describe Metrix			ox Feature		01 001111111	tile absolice t	Ji maicatoi	3.1	
nches)	Color (moist)	_%	Color (moist)	%	Type	Loc ²	Texture		Remarks	
2-6	104R312	100								
0-8	2.544/3	100					5			
3-20	2.545/4	100			-					
	- 1071	· -			·					
		· -								
							 ,			
		· ·	., ., ., .		·				_	
	oncentration, D=Dep					ains,			ning, M=Matrix	
	Indicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)		Indicators f	or Problen	natic Hydric S	Soils ³ :
_ Histosol	• •		Polyvalue Be							
	pipedon (A2)		Thin Dark St					uck (A10) (I		
	istic (A3)		Loarny Mucl	•	. , .	O)			8) (outside N	
	en Sulfide (A4)		Loamy Gley		(F2)				in Soils (F19)	
	d Layers (A5) Bodies (A6) (LRR P	T 10	Depleted Ma		EG)				.oamy Soils (F	-20)
	ucky Mineral (A7) (LF		Redox Dark Depleted Da	-			•	A 153B) rent Materia	1 (TEO)	
	esence (A8) (LRR U		Redox Depr						ii (1F2) Surface (TF1)	3 \
	ıck (A9) (LRR P, T)	,	Mari (F10) (I		٠,			Explain in R	•	2)
	d Below Dark Surfac	e (A11)	Depleted Oc	•	(MLRA 1	51)		-APIGIN III IX	omarks)	
	ark Surface (A12)	` '	Iron-Mangar	. ,	•	•	T) ⁹ Indica	tors of hydi	rophytic veget	ation and
_ Coast P	rairie Redox (A16) (N	NLRA 150A) Umbric Surf	ace (F13)	(LRR P, T	, U)			gy must be pr	
Sandy N	/lucky Mineral (S1) (L	RR O, S)	Delta Ochric						or problemat	
_ Sandy @	Bleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 15	0A, 150B)			-	
-	Redox (S5)		Piedmont Fl	oodplain S	60ils (F19)	(MLRA 149	9A)			
Strippod										
	í Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLR/	A 149A, 153C,	153D)		
Dark Su	rface (S7) (LRR P, S		Anomalous	Bright Loa	my Soils (F20) (MLR/	A 149A, 153C,	153D)		
Dark Su			Anomalous	Bright Loa	my Soils (F20) (MLR/	A 149A, 153C,	153D)		
Dark Su	rface (S7) (LRR P, S		Anomalous	Bright Loa	my Soils (F20) (MLR/	A 149A, 153C,	153D)		
_ Dark Su estrictive I Type:	rface (S7) (LRR P, S		Anomalous	Bright Loa	my Soils (F20) (MLR)	4 149A, 153C, Hydric Soil I		Yes	No
_ Dark Su estrictive i Type:	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR)			Yes	No
Dark Suestrictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Suestrictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No <u></u>
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No <u></u>
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No <u></u>
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MLR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Suestrictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No
Dark Su strictive I Type: Depth (in	rface (S7) (LRR P, S Layer (if observed):		Anomalous	Bright Loa	my Soils (F20) (MILR/			Yes	No

Environmental Field Surveys Wetland Photo Page



Upland data point wnab103_u facing northeast.



Upland data point wnab103_u facing southeast.

	M – Atlantic and Gulf Coastal Plain Region
Project/Site: SERIP City/0	County: NASH Sampling Date: Sampling Point: WNAHO2
Applicant/Owner: Dominion	State: NC Sampling Point \\ \DVAHO2
	ion, Township, Range:
Landform (hillslope, terrace, etc.): Botton Visne Loca	relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat: 36°00°	18.988 Long: 77°54'36.195" Datum:
Soil Map Unit Name: Goldsboro Line spondy he	From 0 2.20 NIMI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	
	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LR	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Inc.	<u> </u>
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)	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No _X _ Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	~/
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	^
Hydrologeg preser	

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

WNAHO21F_W Sampling Point:____

1	Abcoluto	Daminant	In dia atau	
Tree Stratum (Plot size:)		Dominant Species?		Dominance Test worksheet:
1. hilyindanling turner tun	25	Openes:		Number of Dominant Species
2. Platanis occirlos ala			HHC	That Are OBL, FACW, or FAC:(A)
	- 42		FAU	Total Number of Dominant
3. Acer rubnum	_20		MIL	Species Across All Strata: (B)
4. Ulmus americana	20		FALW	/ Species / loross / lil otrata.
			4 / 12 / 1	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6	-			
7	-			Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	Q5			OBL species x 1 =
613		= Total Cove		FACW species x 2 =
50% of total cover: 42	 20% of	f total cover:		
Sapling/Shrub Stratum (Plot size:)		/		FAC species x 3 =
1. Ulmis amorragea	15	~ ~ /	FAKE	FACU species x 4 =
2. Ligiletiner styracifian	15		FIA (UPL species x 5 =
3. Copiny carplinana	10		1010	Column Totals: (A) (B)
S. Co. Junes Carpliniana			FAC	Column Fotals. (A)
4.				Prevalence Index = B/A =
5				
6			***************************************	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3,01
<u>_</u>	415	= Total Cove	r a	
50% of total cover: 27	5 20% of	total gaver	7	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size:)	207001	total cover.	-	
	25	, /	201	¹Indicators of hydric soil and wetland hydrology must
1. Saurus Cerrus	<u> </u>		<u>OBL</u>	be present, unless disturbed or problematic.
2. Altriquentelex-timere	10		MACU	Definitions of Four Vegetation Strata:
3. Polistichem acrostoilas	-5		FACC	The state of the s
4			11000	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
5				height.
6				
V.			l	Sanling/Shrub Woody plants evaluding vines less
6				Sapling/Shrub - Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:			than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
7	40:	= Total Cove		than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
7	20% of LO	= Total Cove total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
7	40 = 20% of LO	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cove total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
7	20% of LO = 20% of =	= Total Cover total cover:	18 AC	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Sampling Point:

Profile Desc	ription: (Descr	ibe to the dep	oth needed to do	cument the	indicator	or confirm	the absence of indica	tors.)
Depth	Matr	ix		edox Feature				
(inches)	Color (moist	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0.7	10413	<u>'</u>					_ LOAM	
1-1-12/7	12.543	<i>(</i>)	101 R4	14 75	· (m	SCL	
J		/	19.17.	/ 		7.		
	-		*					

	<u> </u>				.			
¹Type: C=Co	oncentration, D=	Depletion, RM	=Reduced Matrix,	MS=Maske	d Sand Gr	ains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soil I	Indicators: (Ap	plicable to all	LRRs, unless of	herwise no	ted.)		Indicators for Probl	ematic Hydric Soils³:
Histosol	(A1)		Polyvalue	Below Surfa	ace (S8) (L	.RR S, T, U) 1 cm Muck (A9)	(LRR O)
Histic Ep	oipedon (A2)			Surface (SS			2 cm Muck (A10	
Black His	stic (A3)			ucky Mineral			Reduced Vertic	(F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy GI	eyed Matrix	(F2)		Piedmont Flood	olain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted	Matrix (F3)			Anomalous Brigh	nt Loamy Soils (F20)
	Bodies (A6) (LR			irk Surface (F6)		(MLRA 153B)	
	cky Mineral (A7)) Depleted	Dark Surfac	e (F7)		Red Parent Mate	erial (TF2)
	eserice (A8) (LR		Redox De	pressions (F	8)			rk Surface (TF12)
	ck (A9) (LRR P,		☐ Marl (F10) (LRR U)			Uther (Explain in	n Remarks)
	d Below Dark Su		□ Depleted	Ochric (F11)	(MLRA 1	51)		
	irk Surface (A12			janese Mas:			 T) ³Indicators of h 	ydrophytic vegetation and
	rairie Redox (A1		· 1	urface (F13)		', U)	wetland hydro	ology must be present,
	lucky Mineral (S		Delta Och	ric (F17) (M	LRA 151)		unless disturt	ped or problematic.
	lleyed Matrix (S4	ł)		Vertic (F18)	•			
 	edox (S5)		Piedmont	Floodplain	Soils (F19)	(MLRA 149	9A)	
. =	Matrix (S6)		Anomaloւ	is Bright Loa	my Soils (F20) (MLR/	A 149A, 153C, 153D)	
	face (S7) (LRR							
	ayer (if observ	ed):						
Type:			·					X ·
Depth (inc	ches):						Hydric Soil Present?	Yes No
Remarks:						***************************************	gail pr	0 =
				1			$\bigcap_{i=1}^{n}$	4
***************************************			1 -	1	11-	. / <	VCI Jus	esery
			175	NU			5	•
			100	(`			
			•	•				
-								

Wnah021f_w



Wetland data point wnah021f_w facing east



Wetland data point wnah021f_w facing south

WEITAND DETERMINATION DATA	A FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SERP	City/County: NASH Sampling Date:
Applicant/Owner: Dominion	State: NC Sampling Point: WNAHO.
Investigator(s): DUEST	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat: 🕉	Local relief (concave, convex, none): Slope (%): さって 0.0 / 8.355 "Long: 77*5 4 36、を55" Datum:
Soil Map Unit Name: Galds boro fine smaly	1832 0 - 2% NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	
	ng sampling point locations, transects, important features, etc.
The state of the s	g sampling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled Area
Hydric Soil Present? Welland Hydrology Present? Yes No	within a Wetland? Yes No
12 1 00 this	exerciters present
Margare Indee	= sorumetors and
Y	3 Person
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B'	— • • • • • • • • • • • • • • • • • • •
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
☐ Water Marks (B1) ☐ Oxidized Rhizospl	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5) ☐ Other (Explain in F☐ Inundation Visible on Aerial Imagery (B7)	
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	
gaage, montening well, acriai prior	tos, previous inspections), il available.
Remarks:	
$\lambda = \lambda$	
1 Portgo	Irology present
	· J ·

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

WWA 14021 - U Sampling Point: _____

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Ulmy Jeafer	15		FACU	That Are OBL, FACW, or FAC:(A)
2. Queren alles	20		FACU	
3. Lixux aulma stromenting	10	1.1	F-74	Total Number of Dominant
4 9				Species Across All Strata: (B)
5.				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
6				
7.				Prevalence Index worksheet:
8.	***			Total % Cover of: Multiply bγ:
	45	= Total Cov	er _	OBL species x 1 =
50% of total cover: 22				FACW species x 2 =
Sapling/Shrub Stratum (Plqt size:		(010) 00001		FAC species x 3 =
1. Harranes styrouthe	15	/	En/	FACU species x 4 =
	///			UPL species x 5 =
	10		<u> </u>	
3. Quercy allow	10		HAKU	Column Totals: (A) (B)
4. Limbolendron felipifora	15_	$\underline{}$	PACU	Prevalence Index = B/A =
5	***************************************	***************************************		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				1 []
8			***************************************	2 - Dominance Test is >50%
V	50	T	***************************************	3 - Prevalence Index is ≤3.0¹
		= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: $\frac{2}{2}$	20% of	total cover:		
Herb Stratum (Plot size:)				¹Indicators of hydric soil and wetland hydrology must
1. Polystichum acrostuides	_1/	$\underline{}$	FACU	be present, unless disturbed or problematic.
2.				Definitions of Four Vegetation Strata:
3.				- similari ou cultura
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.				
11				Woody vine – All woody vines greater than 3.28 ft in height.
	***************************************	***************************************		rieight.
12.	175			
· · · · · · · · · · · · · · · · · · ·		= Total Cov	er .	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size:)		1		
1 Spular returned dolla	IQ		FAC	
2. Campies indicana	10		FA	
3.				
1				
T				
5.				Hydrophytic
2	<u> </u>	= Total Cov	er , j	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations below	w).	·	L L.	

WNAHO21-U Sampling Point:____

	•		dicator or commi	the absence of indicators.)	
Depth	Matrix	Redox Features			
(inches)	Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture Remarks	
0-3	104R3/3			souly lown	
3-15+	104R 4/4			36 L	***************************************
					
		-			
17 C-Ca				2	
Hydric Soil I	ncentration, D=Depletion, RM=F ndicators: (Applicable to all L	Reduced Matrix, MS=Masked S	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.	
Histosol				Indicators for Problematic Hydric Soils ³ :	
<u> </u>	(AT) ipedon (A2)	Polyvalue Below Surface Thin Dark Surface (S9) (` ' ' '	
Black His		Loamy Mucky Mineral (F		2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 15	0 A B)
p	n Sulfide (A4)	Loamy Gleyed Matrix (F		Piedmont Floodplain Soils (F19) (LRR P,	
	Layers (A5)	Depleted Matrix (F3)	L)	Anomalous Bright Loamy Soils (F20)	3, 1,
	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)	
	cky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)	
	esence (A8) (LRR U)	Redox Depressions (F8)		Very Shallow Dark Surface (TF12)	
	ck (A9) (LRR P, T)	Marl (F10) (LRR U)		Uther (Explain in Remarks)	
	Below Dark Surface (A11)	Depleted Ochric (F11) (F		- T	
	rk Surface (A12) airie Redox (A16) (MLRA 150A)	Iron-Manganese Masses		, , , ,	1
	ucky Minerał (S1) (MLRA 150A) ucky Minerał (S1) (LRR O, S)		· ·	wetland hydrology must be present,	
	eyed Matrix (S4)	Delta Ochric (F17) (MLF Reduced Vertic (F18) (N	•	unless disturbed or problematic.	
== '	edox (S5)	Piedmont Floodplain Soi	•)A)	
· ·	Matrix (S6)	Anomalous Bright Loam		•	
Dark Sur	face (S7) (LRR P, S, T, U)		,	, , , , , , , , , , , , , , , , , , , ,	
	ayer (if observed):				
T			1		
Туре:				<i>ب</i>	~
	hes):			Hydric Soil Present? Yes No	$\langle \ $
	hes):			Hydric Soil Present? Yes No	<u> </u>
Depth (inc	hes):			Hydric Soil Present? Yes No	<u> </u>
Depth (inc	hes):		1 0		ナ
Depth (inc	hes):		h O		$\frac{x}{x}$
Depth (inc	hes):	No	Lezdon		X -
Depth (inc	hes):	No	Lezdon	Hydric Soil Present? Yes No	X
Depth (inc	hes):	No	Kezdon		X
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		X -
Depth (inc	hes):	No	Lezdon		X
Depth (inc	hes):	No	Legor		X
Depth (inc	hes):	No	Legor		<u>X</u>
Depth (inc	hes):	No	Legdon		<u> </u>
Depth (inc	hes):	No	Legor		X
Depth (inc	hes):	No	Lezdo		
Depth (inc	hes):	No	Lezdo		
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		X
Depth (inc	hes):	No	Lezdo		
Depth (inc	hes):	No	Legon		
Depth (inc	hes):	No	Legon		

Wnah021_u



Upland data point wnah021_u facing east



Upland data point wnah021_u facing north

Wnah021_u soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region NASH Project/Site City/County Sampling PoinWNAHOZ Applicant/Owner: Investigator(s) Section, Township, Range. Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _______ Concave_ Slope (%): 1.876" Long 77"54"31.872" Datum Subregion (LRR or MLRA) Soil Map Unit Name. _ NWI classification. Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are Vegetation ______, Soil ______, or Hydrology ______ significantly disturbed? Are "Normal Circumstances" present? Yes _____ 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? 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) Surface Water (A1) 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) EAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

1 , NAHOZZE - W

VEG

EGETATION (Four Strata) – Use scientific nat	mes of pl	ants.		Sampling Point:
		Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
•				That Are OBL, FACW, or FAC:(A)
				Total Number of Dominant
				Species Across All Strata: (B)
				Percent of Dominant Species
·				That Are OBL, FACW, or FAC: (A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
50% of total cover:	20% of	total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size:)				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.01
		= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover:		- residuals rijaroprijus regelation (Explain)
Herb Stratum (Plot size:)		,		Indicators of hydric call and watered hydrology mays
Boons Dipinota	10	1/	FAC	'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Sirpus (ypprinus	70	7	181	Definitions of Four Vegetation Strata:
Juneus Huses	75		PHOW	Definitions of Four Vegetation Strata.
Minulus alata	10	\rightarrow	······································	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
17.1	10	/-	OBL	more in diameter at breast height (DBH), regardless of
Hibiscus mychentos	42		OBL	height.
Polygorum hydropi perordes		<u> </u>	PACK	Capinigion as Troody plants, excluding vines, less
Certex lupalina	10		<u>013L</u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Cypenus striagosus	10		FACY	Herb – All herbaceous (non-woody) plants, regardless
Shurus cernica	$\underline{\iota D}$		OBL	of size, and woody plants less than 3.28 ft tall.
0	-			
1.				Woody vine – All woody vines greater than 3.28 ft in height.
2			······	Height.
	159			
50% of total cover. 50	100	= Total Cov		
	20% of	total cover:	4	
Voody Vine Stratum (Plot size:)				
-				
	ALDINASLA.			1
5.				11-41-41-
5.		= Total Cov		Hydrophytic Vegetation
5.00% of total course		= Total Cov	er	Hydrophytic Vegetation Present? Yes No
50% of total cover:	20% of		er	Vegetation
50% of total cover:	20% of		er	Vegetation
Remarks: (If observed, list morphological adaptations below	20% of w).	total cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations below	20% of w).	total cover:		Present? Yes No No
Remarks: (If observed, list morphological adaptations below	20% of w).	total cover:		Present? Yes No No
	20% of w).	total cover:		Vegetation Present? Yes No No

WNAHOZZE - W
Sampling Point: _____

Profile Desc	ription: (Describe to the de	oth needed to docu	ment the ir	ndicator	or confirm	the absence of indic	ators.)		
Depth	Matrix	Redo	ox Features						
(inches)	Color (moist) %	Color (moist)		Type'	Loc ²	Texture	Remarks		
2 1114	104R 3 /2	104R 4/6			M	LOAM	***************************************		
5-14	104K5/1	104R416-5	18726) (M,PL	SCL			

	-								
						The state of the s			
¹Type: C=Cd	oncentration, D=Depletion, RM	² Location: PL=Pore	e Lining M=Matrix						
Hydric Soil I	ndicators: (Applicable to al	Indicators for Problematic Hydric Soils ³ :							
<u> </u>	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)			
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Reduced Vertic (F18) (outside MLRA 150A,B)			
	Layers (A5)	Depleted Ma		- 2)		Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20)			
	Bodies (A6) (LRR P, T, U)	Redox Dark	٠,	3)		(MLRA 153B)			
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)						Red Parent Material (TF2)			
	esence (A8) (LRR U) ck (A9) (LRR P, T)	Redox Depre	,)		☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)			
	Below Dark Surface (A11)	Depleted Oc		MLRA 1	51)	Other (Explain)	n Remarks)		
	rk Surface (A12)	☐ Iron-Mangar				r) ³ Indicators of t	nydrophytic vegetation and		
	rairie Redox (A16) (MLRA 150	·			', U)	•	rology must be present,		
	lucky Mineral (S1) (LRR O, S) leyed Matrix (S4)	☐ Delta Ochric ☐ Reduced Ve		•	:0A 4E0D\	unless distur	bed or problematic.		
	edox (S5)	Piedmont Flo				9A)			
=	Matrix (S6)					A 149A, 153C, 153D)			
	face (S7) (LRR P, S, T, U) -ayer (if observed):								
Type:	-ayer (ii observed):								
Depth (inches):						Hydric Soil Present	2 Van X		
Remarks:						riyunc 3011 Flesent	1 163 / 140		
r torridanto.									
						_			
	11 1		. (\cap	_		
	(State)	72	971	F	V 0	sent			
	rigee			(and the			
	\mathcal{O}			'					

Wnah022e_w



Wetland data point wnah022e_w facing east



Wetland data point wnah022e_w facing south

Wnah022e_w soils



Wetland/upland soils

WEILAND DETERMINATION DATA			- A PAC HO 2-4
Project/Site: SERP	City/County:	MSH	Sampling Point: 8-4-14
Applicant/Owner: Dominion		State: NC	Sampling Point: 8-4-14
Investigator(s): ADWE 57	Section, Township, Ra	inge:	
Landform (hillslope, terrace, etc.): Bottom land	Local relief (concave, o	convex. none): CON	Slope (%):
Subregion (LRR or MLRA): Lat: 35	59' 23. 646"	Long: 77° 5'4' 32	299 (**)
Cail Man Unit Man		NWI classifi	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant			present? Yes No
Are Vegetation, Soil, or Hydrology naturally p		eeded, explain any answ	•
SUMMARY OF FINDINGS – Attach site map showin	g sampling point i	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No No	Is the Sampled	l Area 、	<u></u>
Wetland Hydrology Present? Yes No	within a Wetlar	nd? Yes <u>/</u>	<u> </u>
Dod	7 1 1 (>		
Baltoniand hardword	dabuttin	a Regos	String RD
		1	34016 160,
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply		parang .	ators (minimum of two required)
Surface Water (A1) Surface Water (A1) Surface Water (A1)			Cracks (B6)
High Water Table (A2) Marl Deposits (B2)			getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide	• •	Drainage Pa Moss Trim L	, ,
	neres along Living Roots	^~~~	Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bui	` '
	ction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Uther (Explain in	Remarks)	Shallow Aqu	` '
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	
Water-Stained Leaves (B9) Field Observations:			moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	·)·		
Water Table Present? Yes No Depth (inche	m > ()		
Saturation Present? Yes No Depth (inche		tland Hydrology Prese	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho		, ,,	
besome Necorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:	
Remarks:			
		\wedge	
de la companya della companya della companya de la companya della	\sim	10.4	
Hydrolo	ser pro	sery	

MNAHOZZf_W

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

VEGETATION (Four Strata) – Use scientific nar	nes of pl	ants.		Sampling Point:
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. traxings pennsylvanica	35	-\/	<u>CACU</u>	That Are OBL, FACW, or FAC:(A)
2. Hear rubrum	45	$\underline{\hspace{1cm}}$	FAC	Total Number of Dominant
3				Species Across All Strata: (B)
4.				
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	200	***************************************		OBL species x 1 =
<i>i 1</i> 2		= Total Cov		FACW species x 2 =
50% of total cover:	20% of	total cover	<u> 100</u>	
Sapling/Shrub Stratum (Plot size:)	^ ^	. /	<u></u>	FAC species x 3 =
1. Acer rusnum	<u>20</u>	\rightarrow	FIRM	
2. moning ponnighmen	20	$\underline{}$	FAC	UPL species x 5 =
3 ' 5				Column Totals: (A) (B)
4.				Browstone test SV
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2- Dominance Test is >50%
8	778			3 - Prevalence Index is ≤3.0¹
-7 λ	40	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	: <u> </u>	
Herb Stratum (Plot size:)	11.	,	<i>r</i>	¹ Indicators of hydric soil and wetland hydrology must
1. Murdone Kergak	70	\mathcal{A}	DBL	be present, unless disturbed or problematic.
2. Blyceila melicaria	15		OBL	Definitions of Four Vegetation Strata:
3. Sauruus cemua	10		OBL	_
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5.				_
6.				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9	•••••			of size, and woody plants less than 3.28 ft tall.
10				Woody vine All woody vines greater than 3.28 ft in
11.				height.
12				, and the second
	1.5	= Total Cov	er	
50% of total cover: <u>32 r</u>	200/ of	total cover	ッ ター	
Woody Vine Stratum (Plot size:)	<u>3</u> 20% 01	total cover.	(
voody vine stratum (Plot size.	K	1/	N-10	
smeet 10 vancipoles			UPPE	-
2				
3.				
4.				
5				Hydrophytic
	5	= Total Cov	er ,	Vegetation
50% of total cover: 👱 😅	20% of	total cover:	/	Present? Yes No
Remarks: (If observed, list morphological adaptations below				
(iii caca taa nat marphological adaptationo bolor				
				I

SOIL

Sampling Point:

Profile Description: (Describe to	the depth needed to docum	nent the indicator o	r confirm t	he absence of indic	cators.)
Depth <u>Matrix</u>		k Features			,
(inches) Color (moist)	% Color (moist)	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-4 104R5/2	LOYR 416	710 C	m, Pi	LOAM	
4-14+104R3/1	10484/6+5/8	7206	in .PL	CIAULON	777
-					
17				2	
¹ Type: C=Concentration, D=Deple Hydric Soil Indicators: (Applicat			ins.		re Lining, M=Matrix.
		•			blematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)		low Surface (S8) (LF rface (S9) (LRR S, T		1 cm Muck (As 2 cm Muck (A	
Black Histic (A3)		/ Mineral (F1) (LRR		,	c (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed		O ,	7***1	dplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matr				ight Loamy Soils (F20)
Organic Bodies (A6) (LRR P, 1		Surface (F6)		(MLRA 153E	. ,
5 cm Mucky Mineral (A7) (LRF	₹ P, T, U) 🔲 Depleted Dark	k Surface (F7)		Red Parent Ma	aterial (TF2)
Muck Presence (A8) (LRR U)	Redox Depres	` '			Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LF	•		Uther (Explain	in Remarks)
Depleted Below Dark Surface		ric (F11) (MLRA 15	•	3	
Thick Dark Surface (A12) Coast Prairie Redox (A16) (ML	powerq	ese Masses (F12) (L			hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LR	Taxana and a second	ce (F13) (LRR P, T, (F17) (MLRA 151)	U)		drology must be present, urbed or problematic.
Sandy Gleyed Matrix (S4)	· ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	(F17) (MLRA 151) tic (F18) (MLRA 150	A 150R)	uniess disti	arbed or problematic.
Sandy Redox (S5)		odplain Soils (F19) (A)	
Stripped Matrix (S6)				149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S,		, ,	, ,	, ,	
Restrictive Layer (if observed):					
Туре:	-				\checkmark
Depth (inches):				Hydric Soil Presen	t? Yes No
Remarks:					
	1				
į.	Lydri Se			<u></u>	
(,	della Son Se	$\mathcal{L}(\mathcal{L})$	K O A O	1	
	" ICASA O DO	3-C D	100A6		
	\bigcirc				
,					

WETLAND DETERM	INATION DATA FOR	M – Atlantic and G	ulf Coastal Pl	ain Region
Project/Site: SERP	City/0	County: NAS I	(Sampling Date:
Applicant/Owner: Dominico				Sampling Point: WNAHO
Investigator(s):	Secti	on, Township, Range:		
Landform (hillslope, terrace, etc.):	o/rond Loca	relief (concave, convex	none).	Slone (%): Co
Subregion (LRR or MLRA):	Lat: 35°59	23.6281 ong	77'54'33	7033° Datum:
Soil Map Unit Name: Meggett /c	DRIET		NWI classific	- College College (College College Col
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	1		****
Are Vegetation, Soil, or Hydrology				oresent? Yes No
Are Vegetation, Soil, or Hydrology			explain any answe	
				·
SUMMARY OF FINDINGS - Attach si	ite map showing sar	npling point locatio	ns, transects	, important features, etc.
	No No No	Is the Sampled Area within a Wetland?	Yes	No <u></u>
Remarks:				
HYDROLOGY	three param	neters pre	sent	
Wetland Hydrology Indicators:			C111	A (- (- i)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	tors (minimum of two required) Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LR	R U)	Drainage Par	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizospheres a			Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Ird Recent Iron Reduction in	, ,	Crayfish Burn	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Tilled Solls (Co)	_	sible on Aerial Imagery (C9) Position (D2)
Iron Deposits (B5)	Other (Explain in Remar	ks)	Shallow Aqui	, ,
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No	V. 5. 4. 6. 1.)			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches)		lvdrology Preser	it? YesNo
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	7 4			
, , , , , , , , , , , , , , , , , , , ,	g, aa- pa-to-s, p			
Remarks				
11.	1		<i>i</i>	
100	Mydrology	presen	for 10	nel siele
edge	hydrologe, gradine	5 down	n to a	Gacarb
	np fores	2		
	/	4		

VEGETATION	(Four Strata) – Use scientific names of plants	

WNAHO22 - U

				Sampling Point:	
Tree Stratum (Plot size:)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
1 0000000000000000000000000000000000000	% Cover	Species?		Number of Dominant Species	
1. Acronboum	<u> </u>		FAC	That Are OBL, FACW, or FAC:	(A)
2. Saura (4) microsco	15		FACU	Total Number of D	
3. Morus rubra	15	\mathcal{L}	EACU	Total Number of Dominant Species Across All Strata:	(D)
4. Conseteuna suransa				Specification of the contraction	(B)
5. Liferiftempor styons Place	TS		FAC	Percent of Dominant Species 7 2	
6.	1		+11>	That Are OBL, FACW, or FAC:	(A/B)

7	-			Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	(0D)	= Total Cov	/er	OBL species x 1 =	_
50% of total cover:	20% of	total cover	. 17.	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size:)	2070 01	total cover		FAC species x 3 =	
1. Acer rubrum	700		1 Fag.	FACU species x 4 =	
2. Caguidagonban Ayon-illag	<u> </u>		THE		
2. Capatragnoss Symeillag	Share Maria		<u>LHC</u>	UPL species x 5 =	
3. Lypus trum synense	20		1-4C	Column Totals: (A)	_ (B)
4. Chinus alata	20		MACU	Drougher as Index. D/A	
5,				Prevalence Index = B/A =	
6.				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vegetation	
7	***************************************			2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.01	
/ / /		Total Cov	er +	Problematic Hydrophytic Vegetation¹ (Explain	.
50% of total cover:	<u></u> 20% of	total cover:	16	Explain	''
Herb Stratum (Plot size:)	~ ~			11-diseases of the Line of the	
1. Paspaliem notatum	40	V	FACU	¹ Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	ust
2. Am brosice greenisitolia	K		FACU		
3. Rhus molican	 .			Definitions of Four Vegetation Strata:	
				Tree – Woody plants, excluding vines, 3 in. (7.6 c	m) or
4				more in diameter at breast height (DBH), regardle	ss of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines,	
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	iess
8	-				
9.		~		Herb - All herbaceous (non-woody) plants, regard	lless
9				of size, and woody plants less than 3.28 ft tall.	
10.				Woody vine - All woody vines greater than 3.28	tin
11.				height.	`'''
12.					-
	<i>(01</i>) =	Total Cove	er		
50% of total cover		otal cover.	20		
Woody Vine Stratum (Plot size)	2070011	otal cover,			
1 Smile or state of Alletin	15	s /.	parents and		
2 Phys andre	12-	- 	EAC		
2 ISBURY THOUSE	<u> </u>	<u> </u>	FAC		
3					
4.					
5				the form butter	
	7/1 =	Total Cove	ar .	Hydrophytic Vegetation	
50% of total cover.	All and	otal cover.	"6 l	Present? Yes No	
Remarks (If observed, list morphological adaptations below		Jiai cover.			
	() .				

SOIL

WNAHOZZ - U

Depth	ription: (Describe to the dep Matrix	th needed to document the indicator or confirm	the absence of indicators.)
(inches)	Color (moist) %	Redox Features Color (moist) % Type Loc2	Texture Remarks
5-3	MOYK 5/6		Sonlylown
3-14	104K 5/8		SCI
	, , , , , ,	The second secon	grafic distribution of the second of the sec
	10 AN 17 MAIN AN 17 MA	A CONTRACTOR OF THE PROPERTY O	
		Reduced Matrix MS=Masked Sand Grains	*Location: PL=Pore Lining, M=Matrix
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosof	(A1) (pedon (A2)	Polyvalue Below Surface (S8) (LRR S. T. U	· 🗂
Black His		Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
riydroger	Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5) Bodies (A6) (LRR P , T, U)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	cky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TF2)
Muck Pre	esence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
=	Below Dark Surface (A11) rk Surface (A12)	Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P.	T) ³ Indicators of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (MLRA 150A		wetland hydrology must be present.
	ucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
7	leyed Matrix (S4) edox (S5)	Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149)	200
	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	·
	face (S7) (LRR P, S, T, U)		
	ayer (if observed):		
	hes)	****	Hydric Soil Present? Yes No
Remarks			Trydric Soft Fesence Fes
	1	A = A + A	\wedge
	Λ	To hydror soils	resent
		To the second se	

Wnah022_u



Upland data point wnah022_u facing east



Upland data point wnah022_u facing north

Wnah022 soils



Wetland/upland soils

Wnah022f_w



Wetland data point wnah022f_w facing east



Wetland data point wnah022f_w facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region NASH Project/Site City/County Sampling PoinWNAHOZ Applicant/Owner: Investigator(s) Section, Township, Range. Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _______ Concave_ Slope (%): 1.876 Long 77°54'31.872" Datum Subregion (LRR or MLRA) Soil Map Unit Name. _ NWI classification. Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are Vegetation ______, Soil ______, or Hydrology ______ significantly disturbed? Are "Normal Circumstances" present? Yes _____ 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? 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) Surface Water (A1) 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) EAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

1 , NAHOZZE - W

VEG

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point:
		Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
·				That Are OBL, FACW, or FAC:(A)
				Total Number of Dominant
				Species Across All Strata:(B)
	-			
	-			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
·				(100
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 /0 01	(Otal COVE)		FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				(1)
· ————	*			Prevalence Index = B/A =
·				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
		= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size:)		,		¹ Indicators of hydric soil and wetland hydrology must
Books Dipinota	10	\rightarrow	FAC	be present, unless disturbed or problematic.
Sirpus cypprinus	10		OBL	Definitions of Four Vegetation Strata:
Juneus Offises	75		PHOW	
Minulus alata	10	₹/-	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
Hibiscus mucheutos	15		OBC	more in diameter at breast height (DBH), regardless of height.
Polygorum Mydropi perordes	10		FACH	,
Cerco lupalina	10	\rightarrow	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Elypenis striagers	10		FACW	than 3 m. Don and greater than 3.20 k (1 m) tail.
- 7 11	10		Frich	Herb – All herbaceous (non-woody) plants, regardless
Shurus cerreca	·	<u></u>	<u> </u>	of size, and woody plants less than 3.28 ft tall.
0.				Woody vine - All woody vines greater than 3.28 ft in
1.				height.
2				
٧,	100	= Total Cov		
50% of total cover. 50	20% of	total cover:	10	
Voody Vine Stratum (Plot size:)				

	*			
		= Total Cov		Hydrophytic Vegetation
50% of total cover				Present? Yes No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo				
\sim \sim \sim \sim \sim \sim \sim			" A ·	2 2/1/20
Maintained he	TIXER	LOU	ω	Down all
^ -	, /	2 ^	V	
Crossina Pia Pa	Jack	1 /a	001	2 har Harman del
Maintained he crossing Pig Bas	DEN A		CCK	- DUNUMURSMO
<u> </u>				

WNAHOZZE - W
Sampling Point: _____

Profile Desc	ription: (Describe to the de	oth needed to docu	ment the ir	ndicator	or confirm	the absence of indica	ators.)
Depth	Matrix	Redo	ox Features				
(inches)	Color (moist) %	Color (moist)		Type	Loc ²	Texture	Remarks
2 1114	104R 3 /2	104R 4/6			M	LOAM	
5-14	104K5/1	104R416-5	18726) (M,PL	SCL_	
***************************************					-		
¹Type: C=Cd	oncentration, D=Depletion, RM	=Peduced Matrix M	C=Maakad	Cand Ca		21	
Hydric Soil I	ndicators: (Applicable to al	LRRs, unless othe	rwise note	d.)	airis.	² Location: PL=Pore	e Lining, M=Matrix. Ilematic Hydric Soils³:
☐ Histosol		Polyvalue B			RR S, T, U	_	
) 	pipedon (A2)	Thin Dark S	urface (S9)	(LRR S,	T, U)	2 cm Muck (A10	
Black Hi	` '	Loamy Muck			R O)		(F18) (outside MLRA 150A,B)
	n Sulfide (A4) I Layers (A5)	Loamy Gley Depleted Ma		2)		F 1	plain Soils (F19) (LRR P, S, T) tht Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark	. ,	5)		(MLRA 153B)	
🔲 5 cm Mu	cky Mineral (A7) (LRR P, T, U) 🔲 Depleted Da	rk Surface	, (F7)		Red Parent Mat	
	esence (A8) (LRR U)	Redox Depr	•)			ark Surface (TF12)
_	ck (A9) (LRR P, T) I Below Dark Surface (A11)	☐ Marl (F10) (I☐ Depleted Oc		MIDA 1	E4\	Other (Explain i	n Remarks)
	irk Surface (A12)	Iron-Mangar				(i) Indicators of t	nydrophytic vegetation and
	airie Redox (A16) (MLRA 150	A) 🔲 Umbric Surfa					ology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric				unless distur	bed or problematic.
	leyed Matrix (S4) edox (S5)	Reduced Ve				141	
. —	Matrix (S6)					A 149A, 153C, 153D)	
	face (S7) (LRR P, S, T, U)			,			
_	-ayer (if observed):						
Type:	4						\mathbf{X}
	ches):					Hydric Soil Present?	? Yes No
Remarks:							
	A 1 a		. (`		\bigcap	
					- ^ 0	101	•
	vrya	IC S		Ý.	200	and .	
	\mathcal{O}			1		•	

Wnah022e_w



Wetland data point wnah022e_w facing east



Wetland data point wnah022e_w facing south

Wnah022e_w soils



Wetland/upland soils

WEILAND DETERMINATION DATA			- A PAC HO 2-4
Project/Site: SERP	City/County:	MSH	Sampling Point: 8-4-14
Applicant/Owner: Dominion		State: NC	Sampling Point: 8-4-14
Investigator(s): ADWE 57	Section, Township, Ra	inge:	
Landform (hillslope, terrace, etc.): Bottom land	Local relief (concave, o	convex. none): CON	Slope (%):
Subregion (LRR or MLRA): Lat: 35	59' 23. 646"	Long: 77 5 4 32	299 (**)
Cail Man Unit Man		NWI classifi	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significant			present? Yes No
Are Vegetation, Soil, or Hydrology naturally p		eeded, explain any answ	•
SUMMARY OF FINDINGS – Attach site map showin	g sampling point i	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No No	Is the Sampled	l Area 、	<u></u>
Wetland Hydrology Present? Yes No	within a Wetlar	nd? Yes <u>/</u>	<u> </u>
Dod	7 1 1 (>		
Baltoniand hardword	dabuttin	a Regos	String RD
		1	34016 160,
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply		parang .	ators (minimum of two required)
Surface Water (A1) Surface Water (A1) Surface Water (A1)			Cracks (B6)
High Water Table (A2) Marl Deposits (B2)			getated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide	• •	Drainage Pa Moss Trim L	, ,
	neres along Living Roots	^~~~	Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bui	` '
	ction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7)	Geomorphic	Position (D2)
Iron Deposits (B5) Uther (Explain in	Remarks)	Shallow Aqu	` '
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	
Water-Stained Leaves (B9) Field Observations:			moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche	·)·		
Water Table Present? Yes No Depth (inche	m > ()		
Saturation Present? Yes No Depth (inche		tland Hydrology Prese	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho		, ,,	
besome Necorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:	
Remarks:			
		\wedge	
de la companya della companya della companya de la companya della	\sim	10.4	
Hydrolo	ser pro	sery	

MNAHOZZf_W

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

VEGETATION (Four Strata) – Use scientific nar	nes of pl	ants.		Sampling Point:
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. traxings pennsylvanica	35	-\/	<u>CACU</u>	That Are OBL, FACW, or FAC:(A)
2. Hear rubrum	45	$\underline{\hspace{1cm}}$	FAC	Total Number of Dominant
3.				Species Across All Strata: (B)
4.				
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8	200	***************************************		OBL species x 1 =
<i>i 1</i> 2		= Total Cov		FACW species x 2 =
50% of total cover:	20% of	total cover	<u> 100</u>	
Sapling/Shrub Stratum (Plot size:)	^ ^	. /	<u></u>	FAC species x 3 =
1. Acer rusnum	<u>20</u>	\rightarrow	FIRM	
2. moning ponnighmen	20	$\underline{}$	FAC	UPL species x 5 =
3 ' 5				Column Totals: (A) (B)
4.				Browstone test SV
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2- Dominance Test is >50%
8	778			3 - Prevalence Index is ≤3.0¹
-7 λ	40	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	: <u> </u>	
Herb Stratum (Plot size:)	11.	,	<i>r</i>	¹ Indicators of hydric soil and wetland hydrology must
1. Murdone Kergak	70	\mathcal{A}	DBL	be present, unless disturbed or problematic.
2. Blyceila melicaria	15		OBL	Definitions of Four Vegetation Strata:
3. Sauruus cemua	10		OBL	_
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of height.
5.				_
6.				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9	•••••			of size, and woody plants less than 3.28 ft tall.
10				Woody vine All woody vines greater than 3.28 ft in
11.				height.
12				, and the second
	1.5	= Total Cov	er	
50% of total cover: <u>32 r</u>	200/ of	total cover	ッ ター	
Woody Vine Stratum (Plot size:)	<u>3</u> 20% 01	total cover.	(
voody vine stratum (Plot size.	K	1/	N-10	
smeet 10 vancipoles			UPPE	-
2				
3.				
4.				
5				Hydrophytic
	5	= Total Cov	er ,	Vegetation
50% of total cover: 👱 😅	20% of	total cover:	/	Present? Yes No
Remarks: (If observed, list morphological adaptations below				
(iii caca taa nat marphological adaptationo bolor				
				I

SOIL

Sampling Point:

Profile Description: (Describe to	the depth needed to docum	nent the indicator o	r confirm t	he absence of indic	cators.)
Depth <u>Matrix</u>		k Features			,
(inches) Color (moist)	% Color (moist)		Loc ²	<u>Texture</u>	Remarks
0-4 104R5/2	LOYR 416	710 C	m, Pi	LOAM	
4-14+104R3/1	10484/6+5/8	7206	in .PL	CIAULON	777
-					
17				2	
¹ Type: C=Concentration, D=Deple Hydric Soil Indicators: (Applicat			ins.		re Lining, M=Matrix.
		•			blematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)		low Surface (S8) (LF rface (S9) (LRR S, T		1 cm Muck (As 2 cm Muck (A	
Black Histic (A3)		/ Mineral (F1) (LRR		,	c (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed		O ,	7***1	dplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matr				ight Loamy Soils (F20)
Organic Bodies (A6) (LRR P, 1		Surface (F6)		(MLRA 153E	. ,
5 cm Mucky Mineral (A7) (LRF	₹ P, T, U) 🔲 Depleted Dark	k Surface (F7)		Red Parent Ma	aterial (TF2)
Muck Presence (A8) (LRR U)	Redox Depres	` '			Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	☐ Marl (F10) (LF	•		Uther (Explain	in Remarks)
Depleted Below Dark Surface		ric (F11) (MLRA 15	•	3	
Thick Dark Surface (A12) Coast Prairie Redox (A16) (ML	powerq	ese Masses (F12) (L			hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LR	Taxana and a second	ce (F13) (LRR P, T, (F17) (MLRA 151)	U)		drology must be present, urbed or problematic.
Sandy Gleyed Matrix (S4)	· ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	(F17) (MLRA 151) tic (F18) (MLRA 150	A 150R)	uniess disti	arbed or problematic.
Sandy Redox (S5)		odplain Soils (F19) (A)	
Stripped Matrix (S6)				149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S,		, ,	, ,	, ,	
Restrictive Layer (if observed):					
Туре:	-				\checkmark
Depth (inches):				Hydric Soil Presen	t? Yes No
Remarks:					
	1				
).	Lydri Se			<u></u>	
(,	della Son Se	$\mathcal{L}(\mathcal{L})$	K O A O	. 4	
	" ICASA O DO	3-C D	100A6		
	\bigcirc				
,					

WETLAND DETERM	INATION DATA FOR	M – Atlantic and G	ulf Coastal Pl	ain Region
Project/Site: SERP	City/0	County: NAS I	(Sampling Date:
Applicant/Owner: Dominico				Sampling Point: WNAHO
Investigator(s):	Secti	on, Township, Range:		
Landform (hillslope, terrace, etc.):	o/rond Loca	relief (concave, convex	none).	Slone (%): Co
Subregion (LRR or MLRA):	Lat: 35°59	23.6281 ong	77'54'33	7.033° Datum:
Soil Map Unit Name: Meggett /c	DRIET		NWI classific	- College College (College College Col
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	1		****
Are Vegetation, Soil, or Hydrology				oresent? Yes No
Are Vegetation, Soil, or Hydrology			explain any answe	
				·
SUMMARY OF FINDINGS - Attach si	ite map showing sar	npling point locatio	ns, transects	, important features, etc.
	No No No	Is the Sampled Area within a Wetland?	Yes	No <u></u>
Remarks:				
HYDROLOGY	three param	neters pre	sent	
Wetland Hydrology Indicators:			C111	A (- (- i)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	tors (minimum of two required) Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LR	R U)	Drainage Par	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizospheres a			Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Ird Recent Iron Reduction in	, ,	Crayfish Burn	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Tilled Solls (Co)	_	sible on Aerial Imagery (C9) Position (D2)
Iron Deposits (B5)	Other (Explain in Remar	ks)	Shallow Aqui	, ,
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No	V. 5. 4. 6. 1.)			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches)		lvdrology Preser	it? YesNo
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	7 4			
, , , , , , , , , , , , , , , , , , , ,	g, aa- pa-to-s, p			
Remarks				
11.	1		<i>i</i>	
100	Mydrology	presen	for 10	nel siele
edge	hydrologe, gradine	5 down	n to a	Gacarb
	np fores	2		
	/	4		

VEGETATION (Four Strata) - Use scientific names of plants	VEGETATION ((Four Strata) -	Use scientific	names of plants
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50% of total cover:	= Total	al Cover cover:	Total Number of Species Across Percent of Domit That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Hydrophysis Vo	ACW, or FAC: Dominant All Strata: nant Species ACW, or FAC: ex worksheet: eer of:	Multiply by: <1 =	
50% of total cover: 20 Some Stratum (Plot size:	= Total	al Cover cover:	Total Number of Species Across Percent of Domi That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Hydrophysis Vo	Dominant All Strata: nant Species ACW, or FAC: ex worksheet: er of:	Multiply by: <1 =	(B) (A/B
50% of total cover: 30 20 pling/Shrub Stratum (Plot size:) 4 pling/Shrub Stratum (Plot size:) 4 pling/Shrub Stratum (Plot size:) 4 pling/Shrub Stratum Stratum 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	= Total	al Cover cover:	Total Number of Species Across Percent of Domin That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Hydrophytic Vo	All Strata: nant Species ACW, or FAC: ex worksheet: rer of:	Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 = <a href="mailto:multip</td><td>(A/B</td></tr><tr><td>50% of total cover: 30 20 pling/Shrub Stratum (Plot size:) Acer rubrum 22 pling/Shrub Stratum (Plot size:) Authorner styraether 22 pling strum strange 22 plings a lata 22 plings of total cover: 40 20 plings of total cover: 40 p</td><td>= Total</td><td>al Cover cover:</td><td>Percent of Domin That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Hydrophysis Vo</td><td>nant Species ACW, or FAC: Ex worksheet: Yer of: X X X X</td><td>Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 = <a href="mailto:multip</td><td>(A/B</td></tr><tr><td>50% of total cover: 30 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>= Total</td><td>al Cover cover:</td><td>That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence</td><td>ACW, or FAC: ex worksheet: er of:</td><td>Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 = <a href="mailto:multip</td><td></td></tr><tr><td>50% of total cover: 30 21 pling/Shrub Stratum (Plot size:) Acer rubrum 2 Acer rubrum 2</td><td>= Total</td><td>al Cover cover:</td><td>That Are OBL, F Prevalence Inde Total % Cov OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence</td><td>ACW, or FAC: ex worksheet: er of:</td><td>Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 = <a href="mailto:multip</td><td></td></tr><tr><td>50% of total cover: 30 21 pling/Shrub Stratum (Plot size:) Acer whom</td><td>= Total</td><td>al Cover
cover:</td><td>Total % Cov OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence</td><td>rer of:</td><td>Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 = <a href="mailto:multip</td><td></td></tr><tr><td>50% of total cover: 30 21 Acer rubrum (Plot size:) Acer rubrum 22 Lywidhmbar styraciflas 22</td><td>= Total</td><td>al Cover
cover:</td><td>Total % Cov OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence</td><td>rer of:</td><td>Multiply by: Multiply by: a 1 = a 2 = a 3 = a 4 = a 5 =	

SOIL

WNAHOZZ - U

Depth	ription: (Describe to the dep Matrix	th needed to document the indicator or confirm	the absence of indicators.)
(inches)	Color (moist) %	Redox Features Color (moist) % Type Loc2	Texture Remarks
5-3	MOYK 5/6		Sonlylown
3-14	104K 5/8		SCI
	, , , , , ,	The second secon	grafic distribution of the second of the sec
	10 AN 17 MAIN MA	A CONTRACTOR OF THE PROPERTY O	
		Reduced Matrix MS=Masked Sand Grains	*Location: PL=Pore Lining, M=Matrix
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosof	(A1) (pedon (A2)	Polyvalue Below Surface (S8) (LRR S. T. U	· 🗂
Black His		Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
riydroger	Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5) Bodies (A6) (LRR P , T, U)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
	cky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	(MLRA 153B) Red Parent Material (TF2)
Muck Pre	esence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
=	Below Dark Surface (A11) rk Surface (A12)	Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P.	T) ³ Indicators of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (MLRA 150A		wetland hydrology must be present.
	ucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
7	leyed Matrix (S4) edox (S5)	Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149)	200
	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	·
	face (S7) (LRR P, S, T, U)		
	ayer (if observed):		
	hes)	****	Hydric Soil Present? Yes No
Remarks			Trydric Soft Fesence Fes
	1	A = A + A	\wedge
	Λ	To hydror soils	resent
		To the second se	

Wnah022_u



Upland data point wnah022_u facing east



Upland data point wnah022_u facing north

Wnah022 soils



Wetland/upland soils

Wnah022f_w



Wetland data point wnah022f_w facing east



Wetland data point wnah022f_w facing south

WEILAND DETERMINATION DATA	FORM – Atlantic ar	nd Gulf Coastal	Plain Region
Project/Site: SERP	City/County:	ASH	WNAHO13
Applicant/Owner: DOMINION		State: (N)	Sampling Point: 8-5-14
Investigator(s):	Section, Township, Rang		Sumpling Form.
Landform (hillslope, terrace, etc.):			NCVIVE Slape (%):
	59'10.917"Lo	77354	37,44(Datum)
Soil Map Unit Name: Mecap (sification:
Are climatic / hydrologic conditions on the site typical for this time of	ear? Yes X No		
Are Vegetation, Soil, or Hydrology significan			
Are Vegetation, Soil, or Hydrology naturally !		lormal Circumstances ded, explain any ans	
SUMMARY OF FINDINGS – Attach site map showing			•
	g sampling point lot	Jations, transec	is, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No	Is the Sampled A	\rea	
Hydric Soil Present? Yes No No	within a Wetland	? Yes	No
Remarks:			
Emergent MArs	in mid	$2(d_{\alpha})$	Como al O
Carried Courts	C IN PULIC	are g	10163/65
worland 234			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	icators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply Surface Water (A1) Aguatic Fauna (B			oil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B		ν·	/egetated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide			Patterns (B10) Lines (B16)
	eres along Living Roots (C		n Water Table (C2)
Sediment Deposits (B2) Presence of Redu		<u> </u>	urrows (C8)
	tion in Tilled Soils (C6)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac Iron Deposits (B5) Other (Explain in			ic Position (D2)
Iron Deposits (B5) Uother (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)		quitard (D3)
Water-Stained Leaves (B9)			ral Test (D5)
Field Observations:		Spriagrium	moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche):		
Water Table Present? Yes No Depth (inche): 1		
Saturation Present? Yes No Depth (inche (includes capillary fringe)	SULTACE Wetla	ind Hydrology Pres	ent? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), it	f available:	
	, ,		
Remarks:		***************************************	
		\triangle	
Andler Iven	mes	ent	
Hydro loge	1 /	A	
			
			The state of the s

Sampling Point: _____

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

	Absolute	Dominant In	ndicator		iiig Foliit.	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	ŗ.	
1. Acer rubrum	ズ	37,7	FAC	Number of Dominant Species	6	
2. Diospyros virginiana	7		ENC	That Are OBL, FACW, or FAC:		(A)
3 Salix higgers	· —		135	Total Number of Dominant	(
Jan R rugget			ODL	Species Across All Strata:	(O	(B)
4						` ,
5				Percent of Dominant Species	(07)	
6.				That Are OBL, FACW, or FAC:		(A/B)
7				Prevalence Index worksheet:		
8				Total % Cover of:	Martinia bar	
8	110			I .	Multiply by:	•
~ · ·	10	= Total Cover	7	OBL species x		
50% of total cover 7.5	20% of	total cover:	2	FACW species x		
Sapling/Shrub Stratum (Plot size:)				FAC species x	3 =	
1				FACU species x	4 =	
2				UPL species x !	5 =	
3				Column Totals:(A)		(D)
	***************************************			(A)		(B)
4				Prevalence Index = B/A =		
5						
6				Hydrophytic Vegetation Indicat		
7				1 - Rapid Test for Hydrophyti	c Vegetation	
8				2 - Dominance Test is >50%		
				3 - Prevalence Index is ≤3.01		
		Total Cover		Problematic Hydrophytic Veg	etation1 (Explain)	1
50% of total cover:	20% of	total cover:		, , , , , , , , , , , , , , , ,	otation (Explain)	'
Herb Stratum (Plot size:)				Indicates of building it		
1. Carex lupalina.	40		98L	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	and hydrology mu	ıst
2. Hisbisuus macheutos	AST	7	BC			
3 Scirpus cyperinus	1		3 773 1	Definitions of Four Vegetation S	Strata:	
Rhingh od 200 milet			15L_	Tree – Woody plants, excluding v	ines 3 in (7.6 cm	n) or
4 Rhynchospora Zotniculata	10.	—/ <u></u>	9 <u>B</u> Z	more in diameter at breast height	(DBH), regardles	s of
5 Brohmente gylindrica	20	U/ 1-	WW	height.		
6 Juneus Officers	20	\mathcal{L}	MOW	Sapling/Shrub – Woody plants, e	والمواد والمراجع	
7.				than 3 in. DBH and greater than 3	:xciuding vines, le - 28 ft (1 m) tall	ess
8.						
9		***************************************		Herb - All herbaceous (non-wood	y) plants, regardle	ess
9				of size, and woody plants less tha	n 3.28 ft tall.	
10.				Woody vine - All woody vines gre	aatar than 2 20 ft i	.
11.				height.	cater than 5.20 ft	"
12.						
	100	Total Cover				ĺ
50% of total cover:		otal cover:	27			
Woody Vine Stratum (Plot size:)	20% 010	otal cover:				
1						
2.						
3.						
4						
5.						
				Hydrophytic		
		Total Cover		Vegetation		
50% of total cover:		otal cover:		Present? Yes	No	
Remarks. (If observed, list morphological adaptations below	/).		L			

_	_		
c	$\boldsymbol{\cap}$	ı	

Depth	N A = 4 .5.						or confirm	the absent		4.013.)	
(inches)	Matrix Color (møist)		Color (Redo moist)	x Features %	Type	Loc ²	Texture		5 ,	
<u>)-6</u>	104R3/1		104R	4/4			m.Pl		TZG-sc A	Remarks	······································
5-157	104R911		INVE	111	` <u> </u>		/ _		FIN	-	
- NE.			UIL		720		m, Pl	- CLH	Y LOX	ton	
					-		-		_		
									*		
			···								
			····								

Type: C=C	oncentration, D=De	pletion, RM=R	Reduced I	Matrix, MS	=Masked	Sand Gr	ains.	² l ocation	PI=Pore	Lining, M=Mat	·iv
yarıc Soli	indicators: (Applic	cable to all Li	RRs, uni	ess other	wise note	d.)		Indicator	s for Prob	lematic Hydric	Soils ³ :
Histosol	l (A1) pipedon (A2)		Pol	yvalue Bel	low Surfac	e (S8) (l	-RR S, T, U	1 1 cm	Muck (A9)	(LRR O)	
	istic (A3)		Thir	n Dark Sur	face (S9)	(LRR S,	T, U)	2 cm	Muck (A10) (LRR S)	
	en Sulfide (A4)		Loa	ımy Mucky ımy Gleyed	/ Mineral (I d Matrix /E	·1) (LRF	R O)	Redu	ced Vertic	(F18) (outside	MLRA 150A,
Stratified	d Layers (A5)	,	Dep	oleted Mati	rix (F3)	۷)		Anon	nont Flood Dalous Brig	olain Soils (F19 ht Loamy Soils) (LRR P, S, 1 (E20)
Organic	Bodies (A6) (LRR F	P, T, U)	∏ Red	lox Dark S	Surface (F6			(ML	.RA 153B)	it Loanly Soils	(F20)
J 5 cm Mu	ucky Mineral (A7) (LI esence (A8) (LRR L	RR P, T, U)		leted Darl				☐ Red F	Parent Mate		
1 cm Mu	uck (A9) (LRR P, T)	(ر		lox Depres		•		Ŭ Very	Shallow Da	irk Surface (TF	12)
Depleted	d Below Dark Surface	ce (A11)		l (F10) (LF deted Och		MI DA 1	54\	U Other	(Explain ir	Remarks)	
Thick Da	ark Surface (A12)		Iron	-Mangane	se Masse:	(F12) (LRR O, P, T	") ³ lndi	cators of h	ydrophytic vege	tation and
Coast Pi	rairie Redox (A16) (I	MLRA 150A)	Uml	bric Surfac	e (F13) (L	RR P, T	_: (; () , (j)		etland hydro	ology must be p	resent
Sandy N	Mucky Mineral (S1) (I	LRR O, S)	L Delt	a Ochric (F17) (MLF	(A 151)		un	less disturt	ed or problema	itic.
Sandy B	Sleyed Matrix (S4) ledox (S5)		Red	luced Verti	ic (F18) (N	LRA 15	0A, 150B)				
_	Matrix (S6)		Ano	malous Br	ight Loam	ls (F19) . Saila (1	(MLRA 149	A) .149A, 1530			
				maious Di	ignt Loani	y 30115 (1	~2U) (NILKA	149A. 1530	: 1530)		
_ Dank Qui	nace (S7) (LRR P, S	S, T, U)						,	, 1000,		
estrictive L	rface (S7) (LRR P, S -ayer (if observed):						I				
Type:	-ayer (if observed):									V	^
testrictive L Type: Depth (ind	-ayer (if observed):							Hydric Soi		Yes	No
Restrictive L Type:	-ayer (if observed):							· · · · · · · · · · · · · · · · · · ·		Yes	No
testrictive L Type: Depth (ind	-ayer (if observed):	:						· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:		2				· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	<u></u>	50	dpe	256		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):		lac	50)	de	2 5(· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	lac	50	il pe	. 25 (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	laz	50	10	.		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	la	50		.		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	<u>-</u>	<i>\$</i> 50		250		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	inc	60		C S (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	erc.	50		ಆ೨೧		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	erc.	50		C 5 (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	inc.	50		25(· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:	-	50		C S (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:		50	The state of the s	2 50		· · · · · · · · · · · · · · · · · · ·		Yes	No
testrictive L Type: Depth (inc	-ayer (if observed):	:			The same of the sa			· · · · · · · · · · · · · · · · · · ·		Yes	No
testrictive L Type: Depth (ind	-ayer (if observed):	:	in c	50	Column Co	250		· · · · · · · · · · · · · · · · · · ·		Yes	No
testrictive L Type: Depth (ind	-ayer (if observed):	:		50		C 5 (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:		50		C S (· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:			College of the Colleg	C 50		· · · · · · · · · · · · · · · · · · ·		Yes	No
estrictive L Type: Depth (inc	-ayer (if observed):	:			The state of the s	250		· · · · · · · · · · · · · · · · · · ·		Yes	No

Wnah023e_w



Wetland data point wnah023e_w facing east



Wetland data point wnah23e_w facing south

Wnah023e_w soils



Wetland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none); _ Subregion (LRR or MLRA): Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) ___, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks,) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Depth (inches): 507 460 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology present

WWAHO23f_W
Sampling Point:_____

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

Toro Charles (DL)		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	<u>(2)</u>	
1. Fraxerus poursy (vanis		, <u> </u>	CHICK	That Are OBL, FACW, or FAC:	<u></u>	(A)
2. Hear rubnin	<u></u>		FAC	Total Number of Deviler	1	
3				Total Number of Dominant Species Across All Strata:		(B)
4				opedica / terosa / tir otrata.		(6)
5				Percent of Dominant Species	-100	
				That Are OBL, FACW, or FAC:		(A/B)
6				Prevalence Index worksheet:		
7					N. A. alkim factor in	
8				Total % Cover of:		
e7 .e.	70	= Total Cov	er ,	OBL species x		-
50% of total cover: <u>55</u>	20% of	total cover	: 14	FACW species x		
Sapling/Shrub Stratum (Plot size:)	<u></u>		·····	FAC species x	3 =	_
1. Fraxiners poursylvinaioca	20	1/	CEVIN	FACU species x	4 =	
2. Acar rulnum	3×	17	CLAS	1	5 =	
			N KIT	Column Totals: (A		-
3				Coldinii Totals (A	V	- (D)
4.				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indica		-
6						
7.				1 - Rapid Test for Hydrophy		
8				2 - Dominance Test is >50%	ó	
8	U Z			☐ 3 - Prevalence Index is ≤3.0	1	
70	<u> </u>	= Total Cov	er 🗸	Problematic Hydrophytic Ve	getation1 (Explain	1)
50% of total cover: ZO	20% of	total cover:	<u> </u>	_ , , ,	, , , , , , , , , , , , , , , , , , ,	,
Herb Stratum (Plot size:)				¹ Indicators of hydric soil and wet	land budgalani	4
1. Spurlus cornua	25	\sim \langle $/$	OBL	be present, unless disturbed or p	iana nyarology m roblematic	ust
2. Carex intumescens	IM		FACW			
			111000	Definitions of Four Vegetation	Strata:	
3.				Tree - Woody plants, excluding	vines, 3 in, (7,6 c	m) or
4				more in diameter at breast heigh	t (DBH), regardle	ss of
5				height.		
6				Sapling/Shrub – Woody plants,	oveluding vines	loco
7.				than 3 in. DBH and greater than	3.28 ft (1 m) tall	iess
8				Herb - All herbaceous (non-woo	dy) plants, regard	dless
9				of size, and woody plants less th	an 3.28 ft tall.	-
10.				Woody vine – All woody vines g	reater than 3.28 i	ft in
11.				height.		
12						
	35 :	Total Cov	er		V-1	
50% of total cover: 17-6	200/ 05	total cover:				-
		iolai cover:				
Woody Vine Stratum (Plot size:	10	1/	5-101			İ
Myrian rottenar to la	11.					
2. Thus Padecare	10	L//	MAC			
3.						
4						
5.						,
	2.1	T-4-1 O:		Hydrophytic Vogetation		
145		Total Cove	er	Vegetation Present? Yes	No	
50% of total cover: [15		total cover:		165	. 110	
Remarks: (If observed, list morphological adaptations below	·).					
						- 1

Fiolile Des	cription: (Describe	to the depth needed to docu	ment the i	ndicator	or confirm	i the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	Redo	x Feature	s			
17-61	2/5/3/2	% Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
L/ 1/ 1		- 10 NO 1/E					
7-16	23411	10.412 4/6	10		m		
			-		**************************************		
	***************************************		-				
1Tuna: C-C			• ———		***************************************		
Hydric Soil	Indicators: (Applica	etion, RM=Reduced Matrix, Matr	S=Masked	Sand Gr	ains.		Pore Lining, M=Matrix.
Histoso					DD C T II	\neg	Problematic Hydric Soils ³ :
	pipedon (A2)	☐ Polyvalue Be ☐ Thin Dark Su	irface (S9)	CE (SB) (L	-KK 5, 1, U T 11)		(A9) (LRR O) (A10) (LRR S)
	listic (A3)	Loamy Muck	y Mineral	(F1) (LRF	₹0)		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)	🔲 Loamy Gleye	ed Matrix (F2)		Piedmont F	loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR P,	Depleted Ma		C \			Bright Loamy Soils (F20)
5 cm M	ucky Mineral (A7) (LR	T, U) Redox Dark				(MLRA 1	53B) : Material (TF2)
│	resence (A8) (LRR U)	Redox Depre					w Dark Surface (TF12)
	uck (A9) (LRR P, T)	Marl (F10) (L					ain in Remarks)
Thick D	d Below Dark Surface ark Surface (A12)					3	_
	rairie Redox (A16) (M	∐ Iron-Mangan ILRA 150A) ☐ Umbric Surfa	ese Masse ice (E13) (S (F12) (LRR O, P,		of hydrophytic vegetation and
🔲 Sandy N	Mucky Mineral (S1) (L	RR O, S) Delta Ochric	(F17) (ML	RA 151)	, 0,		hydrology must be present, listurbed or problematic.
	Gleyed Matrix (S4)	Reduced Ver	tic (F18) (i	VILRA 15			or problematio.
	Redox (S5) 1 Matrix (S6)	Piedmont Flo					
		Anomalous E	right Loan	ny Soils (I	F20) (MLR/	A 149A, 153C, 153	D)
	mace (S/) (LRR P. S.	T III					
	ırface (S7) (LRR P, S, Layer (if observed):	T, U)					
Restrictive Type:	Layer (if observed):	Τ, U)					2/
Restrictive Type: Depth (in	Layer (if observed):	T, U)				Hydric Soil Pres	ent? Yes No
Restrictive Type:	Layer (if observed):	T, U)				Hydric Soil Pres	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		entant de la constant			<u> </u>	sent? Yes No No
Restrictive Type: Depth (in	Layer (if observed):		301	Pre) SQN	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):	Hydric =	<u>></u>	Pre) S2 1/\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		>01\	Pre) SQ11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		>>\	Pre) SQN	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		507	Pre) SQ1\	<u> </u>	eent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		>07	Pre) SC11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		S01	Pre) SQ 11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		307	Pre) SQ11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		307	Pre) S21/\	<u> </u>	eent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		301	Pre) SC/\	<u> </u>	eent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		307\	Pre) SQ 11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		301	Pre) SQ.11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):			Pre) SC 1/\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		S07	Pre) SC //\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		S07	Pre) SQ.11\	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		301	Pre) S2N	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		SON	Pre) SQN	<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		307	Pre		<u> </u>	sent? Yes No
Restrictive Type: Depth (in	Layer (if observed):		S07	Pre	0 50.11	<u> </u>	sent? Yes No

Wnah023f_w



Wetland data point wnah023f_w facing east



Wetland data point wnah023f_w facing south

CAAA				
Project/Site: SERP Applicant/Owner: Dominion	City/County:	MSH	Sampling Date:	
Applicant/Owner:		State: 10	Sampling Ponts 5 - 14	
	_ Section, Township, R			
Landform (hillslope, terrace, etc.):	Local relief (concave	CORVEY DODE):	Slppe (%): <u>O - (</u>	
Subregion (LRR or MLRA): Lat: 35	159 18.390	Long: 77.54 3	33.010 Datum:	
Soil Map Unit Name: Megaett		NWI classifi		
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No			
Are Vegetation Soil, or Hydrology significantly	,	"Normal Circumstances"	, /	
Are Vegetation Soil, or Hydrology naturally pr		needed, explain any answe	/	
	·			
SUMMARY OF FINDINGS – Attach site map showing	g sampling point	locations, transects	inportant features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sample within a Wetla		No	
Remarks				
Not all three parameters present				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is required; check all that apply)			ators (minimum of two required)	
Surface Water (A1) Aquatic Fauna (B1)		Sparsoly Vo	getated Concave Surface (B8)	
High Water Table (A2) Marl Deposits (B19)	•	Drainage Pa	` '	
Saturation (A3) Hydrogen Sulfide (Moss Trim Li	• •	
	neres along Living Root		Water Table (C2)	
Sediment Deposits (B2) Presence of Reduce		Crayfish Buri	rows (C8)	
1 1 1 44 444 4 6 6 6 6 6 6 6 6 6 6 6 6 6	ction in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in B		Geomorphic	Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in F☐ Inundation Visible on Aerial Imagery (B7)	Remarks)	☐ Shallow Aqui		
Water-Stained Leaves (B9)		FAC-Neutral		
Field Observations:		<u> </u>	noss (D8) (LRR T, U)	
Surface Water Present? Yes No Depth (inches	s):			
Water Table Present? Yes NoDepth (inches				
Saturation Present? Yes No Depth (inches): w	etland Hydrology Presen	t? YesNo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo				
garage, we making work, deliai prior	33, previous mapeedion.	s), ii avallable.		
Remarks				
No hie	Drolog	y prese	20	

WNAHO23

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

VEGETATION (Four Strata) – Use scientific na	imes of p	lants.		Samp	ling Point:	
Tree Stratum (Plot size:)	Absolute	Dominar	nt Indicator	Dominance Test worksheet:		
1. Carpener CHroliniana	% Cover 25	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	8	(A)
2. Querces Magna	25		EALC			(* ')
3 Ligued anter styrocotte	125		<u>FAC</u>	Total Number of Dominant Species Across All Strata:		(B)
5.				Percent of Dominant Species	1/17	
6.				That Are OBL, FACW, or FAC:		(A/B)
7.				Prevalence Index worksheet:		
7 8				Total % Cover of:	Multiply by:	
	7		_	OBL species x		
50% of total annual 27		= Total Co		FACW species x		
50% of total cover: 37. Sapling/Shrub Stratum (Plot size:)	20% of	f total cove	er: <u>10</u>	FAC species x	3 =	_
1. Corpenes carolinara	70	3 /	5-01-	FACU species x	4 =	_
2 Ligustrum sprense	-50		- <u>FAC</u>	UPL species x	5 =	
3. Liquedonners styracitte	37		- Free	Column Totals:(A		
4.	•		- 1115	(//	,	(6)
				Prevalence Index = B/A =		
5	***************************************		-	Hydrophytic Vegetation Indica	tors:	
6				1 - Rapid Test for Hydrophyt		
7			-	2 - Dominance Test is >50%		
8	120		-	3 - Prevalence Index is ≤3.0	İ	
50% of total cover: 30	\	= Total Co	ver	Problematic Hydrophytic Veg	getation¹ (Explai	n)
Herb Stratum (Plot size:)	20% of	total cove	F haven			
1. Khus palicens	18 1	7	FAC	¹ Indicators of hydric soil and wetl	and hydrology m	nust
2. Oxalis stricta				be present, unless disturbed or p		
		-	FACU	Definitions of Four Vegetation	Strata:	
3				Tree - Woody plants, excluding v	ines, 3 in, (7.6 d	cm) or
4				more in diameter at breast height	(DBH), regardle	ess of
5				height.		
6				Sapling/Shrub - Woody plants,	excluding vines,	less
7				than 3 in. DBH and greater than 3	3.28 ft (1 m) tall.	
8		***		Herb - All herbaceous (non-wood	dy) plants, regar	dless
9				of size, and woody plants less that	n 3.28 ft tall.	
10.			***************************************	Woody vine - All woody vines gr	eater than 3.28	ft in
11				height.		
12.	-H					
50% of total cover:		Total Co	Long.			
Woody Vine Stratum (Plot size:/)/	20% of i	total cover	· <u>• ()</u>			
1 Smelan White State	/(0 0	, CA			
2 Bla Printhousersing alless	1000		15.00	<u> </u>		
3	9 C-V214			- :		
4						
5						
	20			Hydrophytic		
50% of total cover:		Total Cov	A I	Vegetation Present? Yes	No	
Remarks: (If observed, list morphological adaptations below		total cover				
the description in the property and applations below	<i>(</i>).					

\sim	t	
S (1)	ı	

WNAHOZ3.

	th needed to document the indicator or conf	firm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	
0-4 25/4/3		LOAN
4-15 75YR5/8	294 16/3 5	SCI
1Tune: C=Consentration D=Depletion DM		
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Histosol (A1)		Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR S, T	
Black Histic (A3)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Ochric (F11) (MLRA 151)	•
Coast Prairie Redox (A16) (MLRA 150A	Iron-Manganese Masses (F12) (LRR O,	· ' ' ' - ' - ' - ' - ' - ' - ' - ' - '
Sandy Mucky Mineral (S1) (LRR O, S)	Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150	unless disturbed or problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MI	
Dark Surface (S7) (LRR P, S, T, U)		,
Restrictive Layer (if observed):		
Type:		
Depth (inches):	- The state of the	Hydric Soil Present? Yes No
Remarks:		
	(
12	Regelrie Soil	
$\mathcal{N}_{\mathcal{O}}$	Reduce Sout	5 Dresen
,		T V
		l e e e e e e e e e e e e e e e e e e e
, i		
S.		

Wnah023_u



Upland data point wnah023_u facing east



Upland data point wnah023_u facing north

Wnah023 soils



Wetland/upland soils

WEILAND DETERMINATION DATA	FORM – Atlantic ar	nd Gulf Coastal	Plain Region
Project/Site: SERP	City/County:	ASH	WNAHO13
Applicant/Owner: DOMINION		State: (N)	Sampling Point: 8-5-14
Investigator(s):	Section, Township, Rang		Sumpling Form.
Landform (hillslope, terrace, etc.):			NCVIVE Slape (%):
	59'10.917"Lo	77354	37,44(Datum)
Soil Map Unit Name: Mecap (sification:
Are climatic / hydrologic conditions on the site typical for this time of	ear? Yes X No		
Are Vegetation, Soil, or Hydrology significan			
Are Vegetation, Soil, or Hydrology naturally !		lormal Circumstances ded, explain any ans	
SUMMARY OF FINDINGS – Attach site map showing			•
	g sampling point lot	Jations, transec	is, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No	Is the Sampled A	\rea	
Hydric Soil Present? Yes No No	within a Wetland	? Yes	No
Remarks:			
Emergent MArs	in mid	$2(d_{\alpha})$	Como al O
Carried Courts	C IN PULIC	are g	10163/65
worland 234			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply Surface Water (A1) Aguatic Fauna (B			oil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B		ν·	/egetated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide			Patterns (B10) Lines (B16)
	eres along Living Roots (C		n Water Table (C2)
Sediment Deposits (B2) Presence of Redu		<u> </u>	urrows (C8)
	tion in Tilled Soils (C6)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac Iron Deposits (B5) Other (Explain in			ic Position (D2)
Iron Deposits (B5) Uother (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)		quitard (D3)
Water-Stained Leaves (B9)			ral Test (D5)
Field Observations:		Spriagrium	moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inche):		
Water Table Present? Yes No Depth (inche): 1		
Saturation Present? Yes No Depth (inche (includes capillary fringe)	SULTACE Wetla	ind Hydrology Presi	ent? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), it	f available:	
	, ,		
Remarks:		***************************************	
		\triangle	
Andler Iven	mes	ent	
Hydro loge	1 /	A	
			
			The state of the s

Sampling Point: _____

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

	Absolute	Dominant In	ndicator		iiig Foliit.	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	ŗ.	
1. Acer rubrum	ズ	37,7	FAC	Number of Dominant Species	6	
2. Diospyros virginiana	7		ENC	That Are OBL, FACW, or FAC:		(A)
3 Salix higgers	· —		135	Total Number of Dominant	(
Jan R rugget			ODL	Species Across All Strata:	(O	(B)
4						` ,
5				Percent of Dominant Species	(07)	
6.				That Are OBL, FACW, or FAC:		(A/B)
7				Prevalence Index worksheet:		
8				Total % Cover of:	Martinia bar	
8	11			I .	Multiply by:	•
~ · · ·	10	= Total Cover	7	OBL species x		
50% of total cover 7.5	20% of	total cover:	2	FACW species x		
Sapling/Shrub Stratum (Plot size:)				FAC species x	3 =	
1				FACU species x	4 =	
2				UPL species x !	5 =	
3				Column Totals:(A)		(D)
	*****			(A)		(B)
4				Prevalence Index = B/A =		
5						
6				Hydrophytic Vegetation Indicat		
7				1 - Rapid Test for Hydrophyti	c Vegetation	
8				2 - Dominance Test is >50%		
				3 - Prevalence Index is ≤3.01		
		Total Cover		Problematic Hydrophytic Veg	etation1 (Explain)	1
50% of total cover:	20% of	total cover:		, , , , , , , , , , , , , , , , , , ,	otation (Explain)	'
Herb Stratum (Plot size:)				Indicates of building it		
1. Carex lupalina.	40		98L	¹ Indicators of hydric soil and wetla be present, unless disturbed or pr	and hydrology mu	ıst
2. Hisbisuus macheutos	AST	7	BC			
3 Scirpus cyperinus	1		3 773 1	Definitions of Four Vegetation S	Strata:	
Rhingh od 200 milet			<u> 151-</u>	Tree – Woody plants, excluding v	ines 3 in (7.6 cm	n) or
4 Rhynchospora Zotniculata	10.	—/ <u> </u>	9 <u>B</u> Z	more in diameter at breast height	(DBH), regardles	s of
5 Brohmente gylindrica	20	U/ 1-	KW	height.		
6 Juneus Officers	20	\mathcal{L}	MOW	Sapling/Shrub – Woody plants, e	والمواد والمراجع	
7.				than 3 in. DBH and greater than 3	:xciuding vines, le - 28 ft (1 m) tall	ess
8.						
9		***************************************		Herb - All herbaceous (non-wood	y) plants, regardle	ess
9				of size, and woody plants less tha	n 3.28 ft tall.	
10.				Woody vine - All woody vines gre	aatar than 2 20 ft i	.
11.				height.	cater than 5.20 ft	"
12.						
	100	Total Cover				ĺ
50% of total cover:		otal cover:	27			
Woody Vine Stratum (Plot size:)	20% 010	otal cover:				
1						
2.						
3.						
4						
5.						
				Hydrophytic		
		Total Cover		Vegetation		
50% of total cover:		otal cover:		Present? Yes	No	
Remarks. (If observed, list morphological adaptations below	/).		L			

~~	
SO	"

Depth	Matrix	depth needed to docu	ox Features			•
(inches)	Color (medat) %	Color (moist)	<u>% Type</u>	Loc ²	Texture	Remarks
<u>ا ا ا ا</u>	104R71	_ 104R 4/4	75 C	M.PL	LOTEN	
> 154	104R9/1	104R 4/6	720 C	m.PL	CLAYLO	PA-011
					/	100
				_		
				-		
Type: C=C	oncentration, D=Depletion, F	RM=Reduced Matrix, M	S=Masked Sand	Grains.	² Location: PL=Po	re Lining, M=Matrix.
yarıc Soli	indicators: (Applicable to	all LRRs, unless othe	rwise noted.)		Indicators for Pro	blematic Hydric Soils ³ :
Histosol	⊢(A1) pipedon (A2)	Polyvalue Be	elow Surface (S8)	(LRR S, T, U)	1 cm Muck (As	
	istic (A3)	Loamy Muck	urface (S9) (LRR y Mineral (F1) (LI	S, T, U)	2 cm Muck (A1	0) (LRR S)
	en Sulfide (A4)	Loamy Gleye	ed Matrix (F2)	(KO)	Piedmont Floo	c (F18) (outside MLRA 150A, dplain Soils (F19) (LRR P, S,
Stratified	d Layers (A5) Bodies (A6) (LRR P, T, U)	Depleted Ma	trix (F3)		Anomalous Bri	ght Loamy Soils (F20)
5 cm Mu	ucky Mineral (A7) (LRR P, T,	Redox Dark	Surface (F6) rk Surface (F7)		(MLRA 153E	
Muck Pr	esence (A8) (LRR U)	Redox Depre			Red Parent Ma	iterial (TF2) Park Surface (TF12)
1 cm Mu	ick (A9) (LRR P, T)	Marl (F10) (L	.RR U)		Other (Explain	
Thick Da	d Below Dark Surface (A11) ark Surface (A12)	Depleted Oci	hric (F11) (MLRA	151)		
	rairie Redox (A16) (MLRA 1	I Iron-Mangan 50A) Umbric Surfa	ese Masses (F12 ce (F13) (LRR P,) (LRR O, P, T) -T ++)		hydrophytic vegetation and
Sandy M	lucky Mineral (S1) (LRR O, s		(F17) (MLRA 15 1)		rology must be present, rbed or problematic.
Sandy G	ileyed Matrix (S4) edox (S5)	Reduced Ver	tic (F18) (MLRA	150A, 150B)		root or problematic.
	Matrix (S6)	Piedmont Flo	odplain Soils (F1	9) (MLRA 149A	()	
	face (S7) (LRR P, S, T, U)	Anomalous B	origin Loamy Sons	(F20) (MLRA	149A, 153C, 153D)	
Restrictive I	116 1					
	-ayer (if observed):					
Туре:						V
Type: Depth (inc					Hydric Soll Present	7 Yes No
Type:					Hydric Soll Present	? Yes X No
Type: Depth (inc	ches):		į		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	- Oak 65	il ores		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	year 50	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydac 50	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydac 50	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yûnc so	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydric 30	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yelne 50	il pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydric 50	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydac so	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yearc 50	il pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	Jane 50	il pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yûnc so	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yanc so	il pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yanc so	T pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydric 50	ilpres		Hydric Soil Present	? Yes X No
Type: Depth (inc	ches):	yênc so	ilpres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	yanc so	il pres		Hydric Soil Present	? Yes No
Type: Depth (inc	ches):	ydric 50	il pres		Hydric Soil Present	? Yes No

Wnah023e_w



Wetland data point wnah023e_w facing east



Wetland data point wnah23e_w facing south

Wnah023e_w soils



Wetland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none); _ Subregion (LRR or MLRA): Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) ___, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks,) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Depth (inches): 507 460 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology present

WWAHOZ3f_W
Sampling Point:_____

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

	Absolute	Dominant Indic	cator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species? Sta	atus	Number of Dominant Species	<u>(2)</u>	
1. Fraxcinca poursylvania	ETO.	-U/A	CW/	That Are OBL, FACW, or FAC:		(A)
2. Hear rubnin	<u> </u>	_ V _ F	AL	T	0	
3				Total Number of Dominant Species Across All Strata:		(5)
4				Species Across Ali Strata.		(B)
4				Percent of Dominant Species	107	
5				That Are OBL, FACW, or FAC:		(A/B)
6						
7.				Prevalence Index worksheet:		
8				Total % Cover of:		
	70 =	Total Cover		OBL species x	1 =	
50% of total cover: <u>3</u> 5		otal cover:	4	FACW species x	2 =	
Sanling/Shruh Stratum (Distains)	20% 011	otal cover:		FAC species x		
Sapling/Shrub Stratum (Plot size:)	m C	. 1	z /	FACU species x		
1. traxiners perusylvinaira	<u> 20</u> .	<u> </u>	CVV			
2. Acor ruloun	<u> 20</u>		<u>4C</u>	UPL species x		
3				Column Totals: (A	.)	_ (B)
4						
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		
6			J	1 - Rapid Test for Hydrophyl		
7.				2 - Dominance Test is >50%		
8				☐ 3 - Prevalence Index is ≤3.0		
. .	<u> 40 =</u>	Total Cover	,	Problematic Hydrophytic Ve		_\
50% of total cover: \overline{ZO}	20% of t	otal cover: S	ا د	Problematic Hydrophytic Vet	getation (Explai	(1)
Herb Stratum (Plot size:)		J				
1. Spurcus cornua	76	. / AV	Ril	¹ Indicators of hydric soil and wetl	land hydrology m	nust
	- 			be present, unless disturbed or p		
2. Carex intumescens			<u>CW</u> [Definitions of Four Vegetation	Strata:	
3				Tree – Woody plants, excluding	vinos 2 in 176	-ma\ au
4.				more in diameter at breast heigh		
5				height.	· (20/.), /oga/a.c	
6						
7	-			Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	excluding vines,	less
7				than 5 m. DBH and greater than	3.20 II (1 III) Iaii.	
8				Herb - All herbaceous (non-woo	dy) plants, regar	dless
9				of size, and woody plants less th	an 3.28 ft tall.	
10				Woody vine - All woody vines g	reater than 2 28	# in
11				height.	reater triair 5.20	10 111
12				•		
	35 =	Total Cover				
50% of total cover: 17	20% of to	otal assess	7			
,	<u>.</u> 20% Of to	Julia cover:(
Woody Vine Stratum (Plot size:	10	11 00	20			1
1. Ayung rotterentolia	<u>~</u>		3.6			
2. Thus padecan	10_	1 G	75			
3						
4						
5.				,		
	20 =	T 4 1 0		Hydrophytic		
14.		Total Cover	الما	Vegetation Yes	No	[
50% of total cover: [7		otal cover:	4_	165		
Remarks: (If observed, list morphological adaptations below	<i>i</i>).					
						-
						i

Profile Des	cription: (Describe to the	depth needed to docum	ent the indicator or confir	m the absence of in	dicators.)
Depth	Matrix	Redox	Features		,
(inches)	Color (moist) %	Color (moist)	% Type¹ Loc²	Texture	Remarks
0-4	2,5/3/2				
4-16+	7,57 4/1	10.412 4/6	10 C m		
	<u> </u>	1 27/18 /16	10 C ph		
					
	· · · · · · · · · · · · · · · · · · ·				
¹Type: C=C	oncentration, D=Depletion, I	PM=Peduced Metrix MC	Monked Cond Coning	21 11 51 5	
Hydric Soil	Indicators: (Applicable to	ali I RRs unless other	vise noted)	"Location: PL=F	Pore Lining, M=Matrix.
Histosol					roblematic Hydric Soils ³ :
	pipedon (A2)	Thin Dock Sur	ow Surface (S8) (LRR S, T,		A9) (LRR O)
 -	istic (A3)	Loamy Mucky	face (S9) (LRR S, T, U) Mineral (F1) (LRR O)		A10) (LRR S)
==	en Sulfide (A4)	Loamy Gleyed			rtic (F18) (outside MLRA 150A,B)
	d Layers (A5)	Depleted Matr			podplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR P, T, U)	Redox Dark S		(MLRA 15	Bright Loamy Soils (F20)
☐ 5 cm Mu	ucky Mineral (A7) (LRR P, T,	, U) Depleted Dark	` '		Material (TF2)
│	resence (A8) (LRR U)	Redox Depres			/ Dark Surface (TF12)
│ <u> </u>	Jck (A9) (LRR P, T)	Marl (F10) (LF			in in Remarks)
Deplete	d Below Dark Surface (A11)		ric (F11) (MLRA 151)	office (Expid	iii iii Kemarka)
_	ark Surface (A12)	☐ Iron-Mangane	se Masses (F12) (LRR O, P	, T) ³ Indicators	of hydrophytic vegetation and
Coast P	rairie Redox (A16) (MLRA 1	50A) Umbric Surfac	e (F13) (LRR P, T, U)		ydrology must be present.
Sandy N	Mucky Mineral (S1) (LRR O,	S) 🔲 Delta Ochric (I	F17) (MLRA 151)	unless dis	turbed or problematic.
	Bleyed Matrix (S4)	Reduced Verti	c (F18) (MLRA 150A, 150B	3)	·
	Redox (S5)		dplain Soils (F19) (MLRA 1		
l I I Stripped	Matrix (S6)	· L Anomalous Br	ight Loamy Soils (F20) (MLI	RA 149A, 153C, 153D))
Dark Su	rface (S7) (LRR P, S, T, U)				
Dark Su	rface (S7) (LRR P, S, T, U) Layer (if observed):				
Dark Su Restrictive I Type:	Layer (if observed):				V
Dark Su	Layer (if observed):			Hydric Soil Prese	nt? Yes X No
Dark Su Restrictive I Type:	Layer (if observed):			Hydric Soil Prese	nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):		sol preser		nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				ont? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? YesNo
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? YesNo
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? YesNo
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? YesNo
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? YesNo
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No
Dark Su Restrictive I Type: Depth (inc	Layer (if observed):				nt? Yes No

Wnah023f_w



Wetland data point wnah023f_w facing east



Wetland data point wnah023f_w facing south

CAAA			
Project/Site: SERP Applicant/Owner: Dominion	_ City/County: <i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	H3H-	Sampling Date:
Applicant/Owner: Dominion		State: //	Sampling Ponts-5-14
	_ Section, Township, Ra		
Landform (hillslope, terrace, etc.):	Local relief (concave	CODVEX DODE).	Slppe (%): <u>O - (</u>
Subregion (LRR or MLRA): Lat: 35	'59' <i>[</i> 8:390"	Long: 77 54 3	33.010 Datum:
Soil Map Unit Name: Megaett		NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes No		
Are Vegetation, Soil, or Hydrology significantl	,	"Normal Circumstances"	, /
Are Vegetation, Soil, or Hydrology naturally pr		eeded, explain any answe	,
	·		
SUMMARY OF FINDINGS – Attach site map showing	g sampling point I	ocations, transects	i, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled within a Wetlan		No
Remarks	• 1		
Not all three	(SAM MO	fers presen	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	itors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<u> </u>	Surface Soil	
Surface Water (A1) Aquatic Fauna (B1)	•	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide		☐ Drainage Pa	
		Moss Trim Li	
Sediment Deposits (B2) Presence of Redui	heres along Living Roots	Crayfish Buri	Water Table (C2)
	ction in Tilled Soils (C6)	 3	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic	
Iron Deposits (B5) Other (Explain in F	Remarks)	Shallow Aqui	` '
Inundation Visible on Aerial Imagery (B7)		☐ FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inches			
Sopin (mones			
Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches	;):	Alexand III don't	
[Includes capillary ringe)		tland Hydrology Presen	t? Yes No Z
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:	
Remarks			
A \ (\circ f		
V_0	()on proce	1 prese	2.5(+)
	You City	1 Plant	
	<i>-</i>	ノリ	

WNAHO23

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

- Use scientific na				Sampl	ling Point:	
Tree Stratum (Plot size:)	Absolute	Dominan	t Indicator	Dominance Test worksheet:		
1. Carpence CHrolingana	% Cover	Species	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	8	(A)
2. Querces Maria	25		FARC			(~)
3. Liquid aubor styracotte	25		EAC	Total Number of Dominant Species Across All Strata:		(B)
4.				Barrant of Burning of Burning	s Same	
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	(00)	(A/B)
1 6.				111017110 002,171044,01170		(A/b)
7				Prevalence Index worksheet:		
8				Total % Cover of:	Multiply by:	
	77	= Total Co	vor	OBL species x 1	1 =	
50% of total cover: 37				FACW species x 2	2 =	_
Sapling/Shrub Stratum (Plot size:)	207001	total cover		FAC species x 3	3 =	_
1. Carpeners carolinara	70	- 1/	Edde	FACU species x 4		
2. Ligistrum spranse	50		1 1/2	UPL species x 5		
3 Liquidament Styracities	=	$\overline{}$	TITLE	Column Totals: (A)		
1 - Type Company SPYSTALLING	1-2		<u> </u>	(A)		(B)
				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicate		
6				1 - Rapid Test for Hydrophytic		
<i>1</i>				2 - Dominance Test is >50%	o vogetation	
8				3 - Prevalence Index is ≤3.0¹		
×9	<u> 60</u> .	= Total Cov	/er		aratical resistance	
50% of total cover:	20% of	total cover:	: [Z_	Problematic Hydrophytic Veg	etation (Explain	ነ)
Herb Stratum (Plot size:)	-c *	_		1		
1. Phus radicens	18 1	, 	FAC	¹ Indicators of hydric soil and wetla be present, unless disturbed or pre-	and hydrology m	nust
2. Oxalis stricta	7	_	FACU	L		
3				Definitions of Four Vegetation S	Strata:	l
		······		Tree - Woody plants, excluding vi	ines, 3 in. (7.6 c	m) or
4				more in diameter at breast height	(DBH), regardle	ss of
5	······································			height.		
6				Sapling/Shrub - Woody plants, e	excluding vines,	less
7				than 3 in. DBH and greater than 3.	.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-wood	v) nlants renard	dess
9.				of size, and woody plants less that	n 3.28 ft tall.	1033
10.				Moody sine All woods sines		.
11.				Woody vine – All woody vines green height.	eater than 3.28 i	πin
12.						
	_4 =	Total Cov	er			
50% of total cover:	20% of t	otal cover:	00			
Woody Vine Stratum (Plot size;)	- }	A				
1. Smelax Total tolia	/ /		1 FA			
2. Go Parthancessus alum	incentalis		1-14-1			
3.		1 /2				
4				·		
5.						
J	<u> </u>			Hydrophytic		
15		Total Cove	= L	Vegetation Present? Yes	No	
50% of total cover:		otal cover:		Lieseutt 168 /	NO	
Remarks: (If observed, list morphological adaptations below).					\dashv
						1

\sim	t	
S (1)	ı	

WNAHOZ3

Profile Description: (Describe to the dept	n needed to document the	indicator or confirm		rs.)
Depth <u>Matrix</u>	Redox Feature	es		,
$\frac{\text{(inches)}}{\sqrt[3]{-2}} = \frac{\text{Color (moist)}}{2\sqrt[3]{4}} = \frac{\%}{2\sqrt[3]{4}}$	Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
4) 10+ 7040 X/	2 M/ / 10 =		LOAN	
7-12, 12/K2/8	<u> </u>		SCL	
	The second of th	* *** * * * * * * * * * * * * * * * *		
17				
¹ Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators: (Applicable to all L	Reduced Matrix, MS=Masked	d Sand Grains.	² Location: PL=Pore Lir	
Histosol (A1)			Indicators for Problem	-
Histic Epipedon (A2)	Polyvalue Below Surfa Thin Dark Surface (S9	ce (S8) (LRR S, T, U)		
Black Histic (A3)	Loamy Mucky Mineral	(F1) (LRR O)	2 cm Muck (A10) (L	8) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix ((F2)	Piedmont Floodplai	n Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)		Anomalous Bright L	oamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F		(MLRA 153B)	
Muck Presence (A8) (LRR U)	Depleted Dark Surface Redox Depressions (F		Red Parent Materia	
1 cm Muck (A9) (LRR P, T)	Marl (F10) (LRR U)	0)	Very Shallow Dark Other (Explain in Re	
Depleted Below Dark Surface (A11)	Depleted Ochric (F11)	(MLRA 151)	Other (Explain III K	ciliaiks)
Thick Dark Surface (A12)	Iron-Manganese Mass	es (F12) (LRR O, P, T) ³ Indicators of hydr	ophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S)		LRR P, T, U)		gy must be present,
Sandy Gleyed Matrix (S4)	Delta Ochric (F17) (ML Reduced Vertic (F18) (unless disturbed	or problematic.
Sandy Redox (S5)	Piedmont Floodplain S		A)	
Stripped Matrix (S6)	Anomalous Bright Loar			
Dark Surface (S7) (LRR P, S, T, U)			-	
Restrictive Layer (if observed): Type:				
Depth (inches):				X
Remarks:	***************************************		Hydric Soll Present?	Yes No <u>/</u>
Normana.				
A 🔊		\sim ()		
	Legorie	Soults	Dredu	\sim
/ 0				·
and the second s	The state of the s			

Wnah023_u



Upland data point wnah023_u facing east



Upland data point wnah023_u facing north

Wnah023 soils



Wetland/upland soils

WEILAND DETERMINATION DA	TA FORM – Atlantic and Gulf Coastal Plain Region 🥱 🥻 🕕
Project/Site: SERP	City/County: NASH Sampling Date:
Applicant/Owner: Dominion	State: NC Sampling Point WHHC
Investigator(s): DDWEST	Section, Township, Range:
Landform (hillslope, terrace, etc.):	
Subregion (LRR or MLRA): Lat. 3	5 8 5 1; 36/ Long: 77 54 46.6 1/8 atum:
Soil Map Unit Name: Gootaevillo	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation, Soil, or Hydrology signific	
Are Vegetation, Soil, or Hydrology natural	
	ving sampling point locations, transects, important features, etc.
Action site map snow	ring sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	I IS the Sambled Area (17)
Hydric Soil Present? Wetland Hydrology Present? Yes No No No No	within a Wetland? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	=
Surface Water (A1) High Water Table (A2) Aquatic Fauna Marl Deposits	Spanothy regulated Contact Currace (Bb)
Catholic (45)	(2,0)
[m], sgsca	
[]	ospheres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
	eduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	25 , 100, 100, 100, 100, 100, 100, 100, 10
Iron Deposits (B5) Other (Explain	in Remarks)Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inc	hes):
Water Table Present? Yes No Depth (inc	
Saturation Present? Yes No Depth (incl	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pl	, , , , , , , , , , , , , , , , , , , ,
become recorded bata (stream gauge, monitoring well, aenai pi	notos, previous inspections), if available:
Remarks:	
$i \int_{-\infty}^{\infty} 0$	de constitution
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	١ (٥)

5-1 1/L

WNAHOZHF Sampling Point:

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

1				Sampling Point:
Trop Stratum (Dist.)			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	%/Cover	Speciés'	Status_	Number of Dominant Species
1. for russum	410	$-\mathcal{U}$ /	EN	
2. Carpiny caroliniana	JA	7/	EW	That Are OBL, FACW, or FAC:(A)
	10		1770	Total Number of Dominant
3				Species Across All Strata:(B)
4				(B)
5				Percent of Dominant Species //)
5				That Are OBL, FACW, or FAC: (A/B)
6				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7				Prevalence Index worksheet:
0				Total % Cover of: Multiply by:
8	C S C S			
g for	$\mathcal{L}(\mathcal{L}(\mathcal{L}))$	= Total Co	ver .	OBL species x 1 =
50% of total cover:	k	total cover	17	FACW species x 2 =
	20 /0 01	total cover		
Sapling/Shrub Stratum (Plot size:)	10		F-310	FAC species x 3 =
1. Hop rullun		· ン/	PAL	FACU species x 4 =
2. CATPENERS CATOLINEANCE 14	15		FAL	UPL species x 5 =
3. Liquidsonbook Syracolla	- L		131	Column Totals: (A) (B)
	411		FFE	(A)(B)
4				Dravelance Index - D/A
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 Deminance Tracking 500'
8				2 - Dominance Test is >50%
	71	·		3 - Prevalence Index is ≤3.01
vii vy	<u> </u>	= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	: /	- 1 Tobiomato Hydrophytto Vegetation (Expiain)
Herb Stratum (Plot size:)				
1 5/44/2014 6 6 0004/4	<		ARI	¹Indicators of hydric soil and wetland hydrology must
1. Sisurues cornua	<u></u>		<u> UOL</u>	be present, unless disturbed or problematic.
2. Covex intunescens	15	86	FALL	Definitions of Four Vegetation Strata:
3. Beekmana ey manza	7		FAZG	
1				T I ree - VV00dy plants, excluding vines, 3 in, (7.6 cm) or 1
4.				more in diameter at breast height (DBH), regardless of
5				height.
6.				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9.				Herb - All herbaceous (non-woody) plants, regardless
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
				height.
12	7			height.
	7	· Total Cov	er	height.
	<u>ک</u> ے=	· Total Cov	2 1	height.
12	<u>ک</u> ے=		2 1	height.
12.	<u>ک</u> ے=	· Total Cov	2 1	height.
12	<u>ک</u> ے=	· Total Cov	2 1	height.
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12	<u>ک</u> ے=	· Total Cov	2 1	height.
12	<u>ک</u> ے=	· Total Cov	2 1	height.
12	25 = 20% of t	· Total Cov	FIA FIAC	height. Hydrophytic
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50% of total cover: 12.5 Woody Vine Stratum (Plot size: 1. Stratum folia: 1. Stratu	25 = 20% of to 5 = 10 = 20% of to 5 = 20% of	· Total Cov	5 FIA FIAC	height. Hydrophytic
50% of total cover: 12.5 Woody Vine Stratum (Plot size: 1. Stratum folia: 1. Stratu	25 = 20% of to 5 = 10 = 20% of to 5 = 20% of	Total Cov	5 FIA FIAC	Hydrophytic Vegetation
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50% of total cover: 12.5 Woody Vine Stratum (Plot size: 1. Stratum folia: 1. Stratu	25 = 20% of to 5 = 10 = 20% of to 5 = 20% of	Total Cov	5 FIA FIAC	Hydrophytic Vegetation
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50% of total cover: 12.5 Woody Vine Stratum (Plot size: 1. Stratum folia: 1. Stratu	25 = 20% of to 5 = 10 = 20% of to 5 = 20% of	Total Cov	5 FIA FIAC	Hydrophytic Vegetation

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Sampling Point: ______ VV

Profile Description: (Describe to the depth	needed to document the indicator or confi-	Sampling Point:
Depth Matrix		n the absence of indicators.)
(inches) Color (moist) %	Redox Features Color (moist)	Texture Remarks
0-3 104R4/2 1	W1 A 11.	
7-16+ 10 YR 5/2	2/0	
10 10 11 12 1	34R4/645/8720 C M, A	CLAY COAM
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, L	J) 1 cm Muck (A9) (LRR 0)
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Organic Bodies (A6) (LRR P, T, U)	Depleted Matrix (F3) Redox Dark Surface (F6)	Anomalous Bright Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F6)	(MLRA 153B)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)	☐ Red Parent Material (TF2) ☐ 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)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present.
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Reduced Vertic (F18) (MLRA 150A, 150B)	
· /	Piedmont Floodplain Soils (F19) (MLRA 14	9A)
I I Stripped Matrix (S6)	I I Anomolous Driebt I O-1- (Coo) (III -	
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	LI Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	L Anomalous Bright Loamy Soils (F20) (MLR.	· · · · · · · · · · · · · · · · · · ·
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type:	L Anomalous Bright Loamy Soils (F20) (MLR.	A 149A, 153C, 153D) Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):	Anomalous Bright Loamy Soils (F20) (MLR.	· · · · · · · · · · · · · · · · · · ·
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):	Anomalous Bright Loamy Soils (F20) (MLR.	Hydric Soil Present? Yes No
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Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
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Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
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Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
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Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No

Wnah024f_w



Wetland data point wnah024f_w facing east



Wetland data point wnah024f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: City/County: Sampling Date Applicant/Owner: 1 Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _ ___ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology ____ ___ naturally problematic? (If needed, explain any answers in Remarks,) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: three boyermeters **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Rechologe

WNAH024 -)1

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

Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species	(* 5 a. 5 a. d.) - 6 ge sciendife fia				Samp	ling Point:	
Multiply Department Multiply Black	Tree Stratum (Plot size:)	0/ 0	Dominant	Indicator	Dominance Test worksheet:	*	
Total Number of Dominant Species Aross All States 5.	1. Legenden wor Styracillus	20 20	Species	F	I Number of Dominant Species		(Δ)
Second Colors and Strata (a) Second Colors and Strata (b) Second Colors and Strata (c) Second Colors and Strata (d) Second Colors and Strata (e)	2. Superior Constitution	<u> </u>		PAC		<u> </u>	(/ 1)
Fercent of Dominant Species That Are OBL, FACW, or FAC: Approach Prevalence Index worksheet: Total % Cover of Multiply by.	1. Livi Bachaviam fulipitera	<u> 30</u>		FAC	I otal Number of Dominant Species Across All Strata:		(B)
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL spaces					Percent of Dominant Species	-7R	()
Prevalence Index worksheet: Total Cover Solver of total cover: 20% of total cover: FACW species x 1 = FACW species x 2 = FACW species x 2 = FACW species x 2 = FACW species x 3 = FACU species x 4 = UPL spe	6				That Are OBL, FACW, or FAC:	(((((((((((((((((((((A/B)
Sapina/Shrub Stratum (Plot size: 1 1 1 1 1 1 1 1 1	7				Prevalence Index worksheet:		
Sapina/Shrub Stratum (Plot size: 20% of total cover: 20% of total cover: 30% of	8					Multiply by:	
Saplina/Shrub Stratum (Plot size: 1.20% of total cover: 2.20% of total cover: 3.3 = FACU species x3 = FACU species x4 = UPL species x5 = Column Totals: x5 = Column To		65	= Total Cox				
Fact species X 3 = Fact species X 4 =	50% of total cover: 32	5 20% of	total cover	. / ?			
Act Catalant Act	Sapling/Shrub Stratum (Plot size:		total cover		FAC species x3	3 =	
2. Definitions of Four Vegetation (Explain) 3. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 1 - Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0" Problematic Hydrophytic Vegetation (Explain) 3 - Prevalence Index is \$3.0" Problematic Hydrophytic Vegetation (Explain) 3 - Prevalence Index is \$3.0" Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrophytic Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in alameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (m) tall. Hydrophytic Vegetation Strata: Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height. Woody vine - All woody vines greater than 3.28 ft in height.	1. Linodonchan talibitera	20	$\sim \sqrt{2}$	FACU	FACU species x4	4 =	·
Column Totals: (A) (B)	2. Promis Christmaceneso.	70	77	FA	UPL speciesx5	5 =	_
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index = SA.0 3 - Prevalence Test is >50% 3 - Prevalence Index is \$3.0	3. Liquidant or funeitue	20		FAC	Column Totals: (A)		 (R)
Fevalence Index = 19/A = Hydrophytic Vegetation Indicators:	4			3 / /			
7	5				Prevalence Index = B/A =		_
2 - Dominance Test is >50% of total cover: 50% of total cover: 50% of total cover: 20% of total cover: 1.	6						
3 - Prevalence Index is \$3.0°	7.				1 - Rapid Test for Hydrophyti	c Vegetation	
Solid Cover Solid Cover	8						
Herb Stratum (Plot size:) 1		~5/C\ =	Total Cov				
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	50% of total cover:	20% of t	otal cover	"/(2)	Problematic Hydrophytic Veg	etation¹ (Explair	1)
Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Woody vine – All woody vines greater than 3.28 ft in height. Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Woody vine – All woody vines greater than 3.28 ft in height.	Herb Stratum (Plot size:						
Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Woody vine – All woody vines greater than 3.28 ft in height. Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Woody vine – All woody vines greater than 3.28 ft in height.	1. Vites rotundifolia	$\langle a \rangle$		EAT	'Indicators of hydric soil and wetla	ind hydrology m	ust
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. 50% of total cover: Saning/Shrub – Woody plants, excluding vines, a in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, a in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, a in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, a in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	2			<u> </u>			
more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Woody Vine Stratum (Plot size:	3			* *************************************	Definitions of Four Vegetation S	Strata:	
more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Total Cover Sow of total cover:	4				Tree - Woody plants, excluding vi	nes, 3 in. (7.6 c	m) or
Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine — All woody vines greater than 3.28 ft in height. 50% of total cover:	5				more in diameter at breast height ((DBH), regardle	ss of
than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. 50% of total cover: 20% of total cover:	6				-		
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Total Cover 20% of total cover: Woody Vine Stratum (Plot size:	7				Sapling/Shrub - Woody plants, e.	xcluding vines,	less
of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. 50% of total cover:	8,						
Woody vine – All woody vines greater than 3.28 ft in height. O	9	-			Herb - All herbaceous (non-wood)	y) plants, regard	lless
Sow of total cover: 20% of total cover: 4 Hydrophytic Vegetation Present? Yes No	10				of size, and woody plants less than	n 3.28 ft tall.	
12	11				Woody vine - All woody vines gre	ater than 3,28 f	t in
Sow of total cover: 20% of	12				height.		
50% of total cover:		775 _	T 4.10				
Noody Vine Stratum (Plot size:) Smile of Color of	50% of total cover:			7]			
Smilex retunds to ha 25 VFAC Units rehands to ha 15 VFAC Hydrophytic Vegetation Present? Yes No No No No No No No No No No No No No		_ 20% 01 (0	ital cover: _	han a second			
Hydrophytic Vegetation Present? Yes No		ファ		KAC			
Hydrophytic Vegetation Present? Yes No		100		45			
Hydrophytic Vegetation Present? Yes No			V.	61-	part.		
Hydrophytic Vegetation Present? Yes No No		····					
Hydrophytic Vegetation Present? Yes No							
50% of total cover: 20% of total cover: Present? Yes No No		<u> </u>					
	50% of total			\leq	D		
Cinarks. (Il observed, list morphological adaptations below).		20% of to	tal cover: _		res <u> </u>	No	
	Singles. (II observed, list morphological adaptations below)	•	***************************************			MR. 1. 11111	

SOIL

WNAHOZ4. - U
Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators; Matrix. Redox Features Color (moist) 5. Color (moist) 5. Color (moist) 5. Texture Remarks Type: C=Concentration, D=Depletion, RM=Reduced Matrix. M5mhasked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (Applicable (Applicable to all LRRs, unless otherwise noted.) Hydrogen Sufface (A1) Histos (CA1) Histos (CA2) Hydrogen Sufface (A2) Stratified Justic (A3) Hydrogen Sufface (A4) Stratified Justic (A3) Hydrogen Sufface (A4) Stratified Justic (A3) Loanny Roley Matrix (F3) Organic Bodes (Ap) (LRR P, T, U) Som Mutry Mineral (A7) (LRR P, T, U) Timic Aprix Sufface (A12) Loanny Macro Manneral (A5) (LRR P, T, U) Depleted Dark Sufface (F7) Depleted Dark Sufface (F7) Depleted Dark Sufface (F7) Coast Fraine Redox (A6) (MLRA 150A) Sandy Medxy Mineral (A7) (LRR A 150A) Dark Sufface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Pepth (inches): Remarks:	Profile Description: (Describe to the de	pth needed to docu	ment the i	ndicator	or confirm	n the absence of	Sampling Point:
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) For Mucky Mineral (A7) (LRR P) Tem Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairic Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Seleyed Matrix (S4) Sandy Redox (S5) Depthetion (CF11) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Feducators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Hydric Soil Present? Yes No	Deptil Iviatrix	Red	ox Feature:	s	0. 00111111	ii die abselle o	i mulcators.)
Histosol (A1)	(Inches) Color (moist) %	Color (moist)			Loc ²	Texture	Remarks
Histosol (A1)	STRI 1869						
Histosol (A1)	10-6 SYR414				***************************************		****
Histosol (A1)	6-15 548416						
Histosol (A1)							
Histosol (A1)							
Histosol (A1)							
Histosol (A1)							1000
Histosol (A1)							
Histosol (A1)	¹ Type: C=Concentration D=Depletion BM	-Dodused Mark in the					
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Muck Presence (A8) (LRR P, T, U) Depleted Below Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T) Depleted Dark Surface (F13) Muck Presence (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Redox Dark Surface (F13) (MLRA 150A) Depleted Dark Surface (F13) (LRR O, P, T) Well and the complete of	Hydric Soil Indicators: (Applicable to all	LRRs unless othe	S=Masked	Sand Gra	ins.	Location: PI	L=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Matrix (F3) Depleted Below Dark Surface (F7) Redox Depressions (F8) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S9) (LRR P, T, U) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) 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 (F3) Depleted Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Thin Dark Surface (S9) (LRR O, T, U) Coamy Mucky Mineral (S1) (LRR O, D) Loamy Mucky Mineral (S1) (LRR O, D) Reduced Vertic (F18) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, D) Redox Dark Surface (F17) Marl (F10) (LRR O, D) Redox Dark Surface (F18) (LRR O, P, T) Umbric Surface (F13) (LRR O, P, T) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Hydric Soil Present? Yes No Thin Dark Surface (S3) (LRR O, D) Reduced Vertic (F18) (MLRA 150A) Reduced Vertic (F18) (MLRA	☐ Histosol (A1)						
Black Histic (A3)	Histic Epipedon (A2)	Thin Dark Su	irface (S9)	/IRR S T	KK S, I, U		
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F4) Depleted Matrix (F3) Depleted Matrix		Loamy Muck	y Mineral ((LIKK 3, 1 F1) (LRR	, 0, O)		
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Organic Bodies (A6) (LRR P, T, U) Som Mucky Presence (A8) (LRR U) Organic Bodies (A6) (LRR P, T, U) Organic Bodies (A6) (MLRA 153B) Organic Bodies (A6) (LRR P, T, U) Organic Bodies (A6) (MLRA 153B) Organic Bodies (A6) Organic Bodies (Hydrogen Sulfide (A4)	Loamy Gleye	ed Matrix (F	-2)	-,	Piedmont	Floodplain Soils (F19) (LPR P. C. T.
S cm Mucky Mineral (A7) (LRR P, T, U)		Depleted Ma	trix (F3)			Anomalou	us Bright Loamy Soils (F20)
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) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Redox Depressions (F8) Wery Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland (1+2) Wery Shallow Dark Surface (F12) (IRR O, P, T) Indicators of hydrophytic vegetation and wetland (1+2) Wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland (1+2) Wery Shallow Dark Surface (F12) (IRR O, P, T) Indicators of hydrophytic vegetation and wetland (1+2) Wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland (1+2) 5 cm Mucky Minoral (AZ) (LRR P, T, U)					(MLRA	153B)	
1 cm Muck (A9) (LRR P, T)	Muck Presence (A8) (LRR P, T, U)		rk Surface	(F7)		☐ Red Pare	nt Material (TF2)
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) Restrictive Layer (if observed): Type: Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LR O	1 cm Muck (A9) (LRR P. T))			
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) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (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. Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematics.	Depleted Below Dark Surface (A11)			MI DA 454	()	☐ Other (Ex	plain in Remarks)
Coast Frairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S)	Thick Dark Surface (A12)	I Iron-Mangan	ese Masse	s (F12) (L1	I) RR O P :	T) ³ Indicate	no of budos about
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) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	Coast Prairie Redox (A16) (MLRA 150)	A) 🔲 Umbric Surfa	ce (F13) (L	.RR P, T,	U)		d hydrology must be proceed
Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No	Sandy Mucky Mineral (S1) (LRR O, S)	□ Delta Ochric	(F17) (MLF	RA 151)		unless	disturbed or problematic
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No		Reduced Ver	tic (F18) (N	ILRA 150.	A, 150B)		problemate.
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No		Piedmont Flo	odplain So	ils (F19) (I	MLRA 149	BA)	
Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes No	Dark Surface (S7) (LRR P. S. T. II)	Anomalous B	right Loam	y Soils (F2	20) (MLR A	A 149A, 153C, 15	3D)
Type: Depth (inches): Remarks: Hydric Soil Present? Yes No	Restrictive Layer (if observed):			·			
Remarks: No No							
Remarks:	Depth (inches):						\sim
						Hydric Soil Pre	sent? Yes No
No hydre soil present							
No hydre soil present	. 0	1		\sim			
rychiz sont present	$\mathcal{N}_{\mathcal{D}}$			~ / /	\		\cap
		LICHTZ	_ < ,	~ 1	101	10 101	
				J 4		Con V	
					•		

Wnah024_u



Upland data point wnah024_u facing east



Upland data point wnah024_u facing north

Wnah024 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: DERP	City/County: VASH ville //	VA3 N Same	pling Date: S August 201
Applicant/Owner: Dominion		State: N.C. Sami	pling Point: WNAGGO6
DD IAIC CO	Section, Township, Range:		Julig Found.
Landform (hillslope, terrace, etc.):	Local relief (concave, convey,	nono): Can and M	Clana (9/)
Subregion (LRR or MLRA): Lat:	58 07 998 Lane	70055 10 509	Slope (%)
	No.		
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly		Circumstances" presen	t? Yes No
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If needed, e.	xplain any answers in F	temarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locatio	ns, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area within a Wetland?	Yes	No
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Crack	s (B6)
Surface Water (A1) Aquatic Fauna (B1	•	Sparsely Vegetated	d Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		Drainage Patterns	· · · · · · · · · · · · · · · · · · ·
Saturation (A3) Hydrogen Sulfide (, ,	Moss Trim Lines (E	•
	eres along Living Roots (C3)	Dry-Season Water	· · ·
	tion in Tilled Soils (C6)	Crayfish Burrows (on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	` '	Geomorphic Position	
Iron Deposits (B5) Other (Explain in R		Shallow Aquitard (I	` ′
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutral Test (· ·
Water-Stained Leaves (B9)		Sphagnum moss (I	· · ·
Field Observations:		**************************************	
Surface Water Present? Yes No Depth (inches	:		
Water Table Present? Yes No Depth (inches			
Saturation Present? Yes No Depth (inches (includes capillary fringe)	: Wetland H	ydrology Present? Y	/es No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if avai	ilable:	
Remarks:		<u> </u>	

T 01-4 (DI) 2 (A) 2 (A)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC: (A)
2. SALIX NOCA	30		OBC	Total Number of Dominant
3. Liquidambar styracifica	10	N	FAC	Species Across All Strata: (B)
4. Betula nigre	10	$\underline{\mathcal{M}}$	FACW	5
· -				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				That Ale OSE, I AOV, OI I AO.
7			-	Prevalence Index worksheet:
8		***************************************		Total % Cover of: Multiply by:
	90	= Total Cov	ıor	OBL species x 1 =
50% of total cover:		total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 × 30)	20% 01	total cover	•	FAC species x 3 =
1. Ace (Cubium	30	V	ENC	FACU species x 4 =
2. Lig Vidambre Stycacifive	Sandy Sandy	-7-	1	UPL species x 5 =
		<u> </u>	FAC.	Column Totals: (A) (B)
3				Column rotals. (A)
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
	40	= Total Cov	/er	l =
50% of total cover: 20	20% of	total cover	· 8"	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30/2)		total cover	· 22	1
4 Parasi Caratas I				Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				·
11.				Woody vine - All woody vines greater than 3.28 ft in
				height.
12.				
		= Total Cov		
50% of total cover:	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 1 30)	***		~ ^	
1. Campois codicana	20_	4	FAC	
2				
3				
4				
5.				14. odno mbusto
	20	= Total Cov	rer	Hydrophytic Vegetation
50% of total cover:		total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations below		LOCAL COVE	·	<u> </u>
Transaction of the contraction o	٧,,.			

Sampling Point: WAGOL6 F_W

Depth	Matrix		Redo	x Feature	<u>s</u>				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
)-5	1042 3/2						E.		
~ 10	10425/2	95%	10 7 R. S/4			M	561		
5/6	000m A				Philipper.				
O-Tub	(ark 5/2	<u>80</u>	10425/9	161	- Comment	<u> </u>	Share East		
			101R 5/1	10	D	M			
***************************************				-					***************************************
				-					
···				·					
ype: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, Ma	S=Masked	Sand Gr	ains.	² Location: PL=P	ore Lining, M=Matrix.	
ydric Soil i	ndicators: (Applic	able to all I	RRs, unless other	rwise not	ed.)			oblematic Hydric Soils ³ :	
Histosof	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T,	U) 1 cm Muck (<i>I</i>	49) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su					A10) (LRR S)	
] Black Hi	stic (A3)		Loamy Muck				T 1	tic (F18) (outside MLRA	150A,I
Hydroge	n Sulfide (A4)		🔲 Loamy Gleye	ed Matrix	(F2)			odplain Soils (F19) (LRR	
	l Layers (A5)		Depleted Ma	trix (F3)				Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P		Redox Dark	Surface (F	6)		(MLRA 153		
	cky Mineral (A7) (LF		Depleted Dai					Material (TF2)	
	esence (A8) (LRR U	J)	Redox Depre		8)			Dark Surface (TF12)	
	ck (A9) (LRR P, T)		Marl (F10) (L				U Other (Explai	in in Remarks)	
	Below Dark Surfac	e (A11)	Depleted Oct	, ,	•	•	2		
	irk Surface (A12)	NI DA 4504	☐ Iron-Mangan				•	of hydrophytic vegetation a	
	airie Redox (A16) (N					, U)		ydrology must be present,	
	luck y Mineral (S1) (I leyed Matrix (S4)	LRK U, S)	Delta Ochric			04 4500		turbed or problematic.	
	edox (S5)		Reduced Ver						
_	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S	S T 11\	Anomaious E	ongni Loai	my Solls (F20) (IVILE	RA 149A, 153C, 153D)	
1 Dank Oak	nade (Or) (Ellier, e	, i, u _j							
estrictive l	aver (if observed):	•					i		
	ayer (if observed):	:							
Туре:									
Type: Depth (inc							Hydric Soil Prese	nt? Yes No_	
Туре:							Hydric Soil Prese	nt? Yes No_	
Type: Depth (inc							Hydric Soil Prese	nt? Yes No_	
Type: Depth (inc							Hydric Soil Prese	nt? Yes No_	
Type: Depth (inc							Hydric Soil Prese	nt? Yes No_	
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Type: Depth (inc							Hydric Soil Prese	nt? Yes No	
Type: Depth (inc							Hydric Soil Prese	nt? Yes No	
Type: Depth (inc							Hydric Soil Prese	nt? Yes No	

wnag006f_w



Wetland data point wnag006f_w facing south



Wetland data point wnag006f_w facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site:	City/County: A/A64/12	1/4 / NA	Compling Date: SALULAN 2.16
Applicant/Owner:	oxyroounty.	State: N/C	Sampling Date: WNA 6206- 4
Investigator(s): DD WEST			_ Sampling Point:
		je:	No. 489
Landform (hillslope, terrace, etc.): Terrace Subregion (LRR or MLRA): Lat: 35°	Local relief (concave, co	nvex, none):	Slope (%):
Soil Man Unit Name: Mac.			
Are climatic / hydrologic conditions on the site typical for this time of your conditions.	ear? Yes No	(If no, explain in l	Remarks.)
Are Vegetation, Soil, or Hydrology significantly			
Are Vegetation, Soil, or Hydrology naturally pr SUMMARY OF FINDINGS — Attach site map showing		ded, explain any answ	
	, camping point to	Julions, transect	s, important reatures, etc.
Hydrophytic Vegetation Present? Yes No	is the Sampled A	rea	
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetland		No
Remarks:			
maintained/Mowed ARe	p.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1			getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	(LRR U)	Drainage Pa	
Saturation (A3) Hydrogen Sulfide (Moss Trim L	
	eres along Living Roots (0	C3) 🔲 Dry-Season	Water Table (C2)
Sediment Deposits (B2) Presence of Reduc		Crayfish Bur	
	tion in Tilled Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface ☐ Iron Deposits (B5) ☐ Other (Explain in R	• ,		Position (D2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in R	emarks)	☐ Shallow Aqu	` '
Water-Stained Leaves (B9)		FAC-Neutral	
Field Observations:	· · · · · · · · · · · · · · · · · · ·	Spriagrium n	noss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches)	:		
Water Table Present? Yes No Depth (inches)			the same
Saturation Present? Yes No Depth (inches)		nd Hydrology Preser	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	!		
photo	s, previous inspections), i	r available:	
Remarks:			

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

Sampling Point: WNFG 006_4 Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species 1. None Oresen That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ _____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: ___ ____ 20% of total cover: Sapling/Shrub Stratum (Plot size: __ FAC species _____ x 3 = ____ 1. None Present FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: ____ _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% \square 3 - Prevalence Index is $\leq 3.0^1$ ____ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: Herb Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must 1. Digitaria Cilliaris be present, unless disturbed or problematic. 2. Lespeceta Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 95_ = Total Cover 20% of total cover: 50% of total cover: Woody Vine Stratum (Plot size: 1. Nove Pressor Hydrophytic _____ = Total Cover Vegetation Present? 50% of total cover: ____ ___ 20% of total cover: __ Remarks: (If observed, list morphological adaptations below).

Sampling Point: WNAGOOD_U

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence o	f indicat	ors.)	
Depth	Matrix		Rede	ox Features					,	
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture		Remarks	<u></u>
0-20	10484/6						SCL			

¹Type: C=Co	oncentration, D=Dep	letion PM=P	aduced Matrix M	C=Maskad	<u> </u>		2, ., -			
Hydric Soil	Indicators: (Applic	able to all LR	Rs. unless othe	S-Masked	Sand Gra	ains.	Indicators fo	L=Pore L	_ining, M=Ma	trix.
Histosol			Polyvalue Be			DD C T 111			_	Soils":
	pipedon (A2)		Thin Dark St	urface (S9)	(IRRS	KK 3, 1, 0) T 111	1 cm Mu 2 cm Mu			
🔲 Black Hi			Loamy Muck	v Mineral ((1) (LRR	O)				MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	-2)	-,	Piedmon	t Floodpi	ain Soils (F19	(LRR P, S, T)
	Layers (A5)		Depleted Ma	· · · /	·		Anomalo	us Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P,	, T, U)	Redox Dark				(MLRA	153B)		, ,
Muck Pr	cky Mineral (A7) (LF esence (A8) (LRR U	RR P, T, U)	Depleted Da				Red Pare			
1 cm Mu	ck (A9) (LRR P, T))	Redox Depre)				k Surface (TF	12)
Depleted	Below Dark Surface	e (A11)	☐ Marl (F10) (L ☐ Depleted Oc		MI DA 45	41	Uther (E:	xplain in I	Remarks)	
	rk Surface (A12)	,	Iron-Mangan				') ³ Indicat	ore of bu	drankutia	-4-4:
Coast Pr	airie Redox (A16) (N	ILRA 150A)	Umbric Surfa	ce (F13) (L	-RR P. T.	U)		nd hydrol	drophytic veg ogy must be i	etation and
Sandy M	ucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) (MLF	RA 151)	-,			ed or problem	
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) (N	ILRA 150				р. одлоги	
	edox (S5)		Piedmont Flo							
	Matrix (S6) face (S7) (LRR P, S	T 110	Anomalous E	Bright Loam	y Soils (F	20) (MLRA	149A, 153C, 1	53D)		
	ayer (if observed):	, 1, 0)		***************************************		······································				
Type:										
	hes):		-							
Remarks:							Hydric Soil Pr	esent?	Yes	_ No
remarks.										
* *										
			ř							
										`

Wnag006_u



Upland data point wnag006_u facing east



Upland data point wnag006_u facing north

wnag006 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SER P	_ City/County: NASH VILLE / NASH _ Sampling Date: S AUgust &
Applicant/Owner:	State: Sampling Point: WNAG 005
Investigator(s): DD WEST	Section, Township, Range:
andform (hillstone towns a to be a second	
Subregion (LRR or MLRA): Lat: Lat:	15 4 C4 O34
Soil Map Unit Name: Bibb	Long: NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No (If no explain in Remarks)
Are Vegetation, Soil, or Hydrology significan	
Are Vegetation, Soil, or Hydrology naturally	
	oroblematic? (If needed, explain any answers in Remarks.) ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (B4) Hydrogen Sulfide	5) (LRR U)
- Nanogon Guillac	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
The state of the s	=, (55)
Algal Mat or Crust (B4) Thin Muck Surface	=
Iron Deposits (B5) Other (Explain in	and the second of the second o
Inundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	Springfrum moss (20) (Errit 1, 0)
Surface Water Present? Yes No Depth (inches	s):
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	los, previous inspections), if available:
Remarks:	

20.20	Absolute	Domina	nt Indicator	Dominance Test work	sheet:	t: <u>WN A @</u>
ee Stratum (Plot size: 30 x 30)	% Cover	Specie	s? Status	Number of Dominant Sp		
Liciadandran tulipifera	_ <u> </u>	7	FACIA	That Are OBL, FACW, o	pecies S	(/
Meer rubium		4	<u> </u>	Total Number of Devilo		
Pinus tax da	10	N	EKC	Total Number of Domina Species Across All Strat		(1
Liquidumbur Styraciflus	10	N	FAC	openier / torong / til ottal	a,	\'
THE STATE OF THE S				Percent of Dominant Sp	ecies 🗇	5.
				That Are OBL, FACW, o	r FAC:	<u> </u>
				Prevalence Index work	sheet:	
				Total % Cover of:		v hv·
	- 40 -			OBL species		
50% of total cover:	· 1	= Total C	over /	FACW species		
ing/Shrub Stratum (Plot size: 30 × 30)	20% of	total cov	er:			
ing/shrub Stratum (Plot size:)	e d'as	v .	8000 A /A	FAC species		
Nyssa sylvatica	_ (\)	_/	10/4(,	FACU species		
Acer rulium		<u> </u>	<u> FA</u>	1	× 5 =	
Direccus Nigra			EM	Column Totals:	(A)	
Cletha olistolia		N	FACW	Dravalanas Inday	- D/A -	
				Prevalence Index		
				Hydrophytic Vegetatio		
				1 - Rapid Test for H		atio n
				2 - Dominance Test		
	30			3 - Prevalence Inde		
50% of total cover:		= Total Co	over	☐ Problematic Hydrop	nytic Vegetation ¹	(Explain)
Stratum (Plot size: 30 x 30 total cover. 20	20% of	total cove	er:			
Osmunda Cinnamomea	graft formous	V/ .	19. 12. 1	¹ Indicators of hydric soil	and wetland hydro	ology mu
Athyrium applemailes	<u></u>		<u> </u>	be present, unless distur	bed or problemati	ic.
		7	FAC	Definitions of Four Veg	etation Strata:	
microstogium viningum		\overline{N}	<u>FAC</u>	Tree – Woody plants, ex	oludina vinos 2 is	n /7.6 nm
¥				more in diameter at brea	st height (DBH). r	egardles
				height.		- g
				Sapling/Shrub - Woody	nlanta avaludina	
				than 3 in. DBH and great	er than 3.28 ft (1	n) tall

		***************************************		Herb - All herbaceous (r	ion-woody) plants	, regardi
			-	of size, and woody plants	siess than 3.28 ft	tall.
				Woody vine - All woody	vines greater tha	ın 3.28 ft
				height.	_	
	 .					
45		Total Co	5000			
50% of total cover:	20% of t	total cove	r:			
dy Vine Stratum (Plot size: 30 1 30)	£20).	ž.,	en 10			
initax Cotondifolia	<u> (L.C.)</u>	Y	F PA			
<u>Gelsenium sampervirong</u>		4	FAC 4			
Campsis radicans	21	_N	FAO			
Parthenecissus avinaux filis	71	Ŋ	FACU			
· V V			<u> </u>			
	- 25 -	Total Co		Hydrophytic Vegetation		
E09/ offered	39		DEC.	Present? Yes	No	
50% of total cover:		total cove	r:	103	140	
arks: (If observed, list morphological adaptations be	low).					

SOIL

		b :		"not		,
Sampling	Point:	English with	1/40	-VY9	F	190

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix (inches) Color (moist) %		Redo: Color (moist)	Redox Features								
006	101R-3/2	- - 1 00	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks		
2.16							54				
****/\	10443/7	_ <i>[00</i>					SCL				
15.20	10465/2	<u>-90</u> .	10185/4	_5_	<u>C</u>	<u> M</u>	<u> 200 </u>				
	-		104/2 6/	5	2	M					
	-										
									····		
¹Type: C=C	Concentration, D=De	nletion RM=I	Reduced Matrix MC				2				
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless other	wise not	ed.)	uns.	Location:	PL=Pore I	_ining, M≕Matr ematic Hydric	ix.	
Histoso	l (A1)					RR S. T. U				Solis :	
	Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)				Γ, U)	J)					
	Loamy Mucky Mineral (F1) (LRR O)				0)	Reduced Vertic (F18) (outside MLRA 150A,B)					
	en Suilide (A4) ed Layers (A5)		Loamy Gleyer		F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)				
	Bodies (A6) (LRR F	P. T. U)	Depleted Mate		:6)				Loamy Soils	(F20)	
5 cm M	ucky Mineral (A7) (LI	RR P, T, U)	Depleted Dark				(MLRA 153B) Red Parent Material (TF2)				
	Muck Presence (A8) (LRR U) Redox Depressions (F8)						Very Shallow Dark Surface (TF12)				
	uck (A9) (LRR P, T) d Below Dark Surfac	(444)	Marf (F10) (LF					Explain in		•	
Thick D	ark Surface (A12)	æ (A11)	Depleted Och				- > 3, ,,				
	rairie Redox (A16) (I	MLRA 150A)	Iron-Mangane Umbric Surfac	se (F13) <i>(</i>	es(F12)(L IRRPT	.RR 0, P, 1			drophytic vege		
☐ Sandy N	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric (F17) (ML	RA 151)	Ο,			ogy must be p ed or problema		
	Gleyed Matrix (S4)		Reduced Verti	ic (F18) (i	MLRA 150	A, 150B)			o problema		
	Redox (S5) I Matrix (S6)		Piedmont Floo	dplain S	oils (F19) (MLRA 149	(A)				
	urface (S7) (LRR P, S	S. T. U)	Anomalous Br	ight Loan	ny Soils (F	20) (MLRA	149A, 153C,	153D)			
Restrictive	Layer (if observed):	:				T					
Туре:											
Depth (in	ches):						Hydric Soil F	Present?	Yes	No	
Remarks:							,				
										j	

wnag005f_w



Wetland data point wnag005f_w facing north



Wetland data point wnag005f_w facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SERP City/County: MASIA VIII/e / MASIA Samplin	on Data: 5 Averst 2014
Amplianation	ng Point: WNA G D5 5 4
Investigator(s): DD WEST Section, Township, Range:	ig Point: **** (3-02-3-4)
Landform (hillslope, terrace, etc.): SIDE SLOVE Local relief (concave, convex, none): Convey Subregion (LRR or MLRA): P Lat: 35 57 53.985 Long: 77 55 46.57	Slope (%):
Soil Map Unit Name: NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present?	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Ren	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, import	•
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Remarks: Is the Sampled Area within a Wetland? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (mini	imum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13) Sparsely Vegetated C. Aerial Imagery (C9)	
Water Table Present? Yes No Depth (inches):	
(Includes capillary fringe)	No <u>*</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION (Four Strata) – Use scientific na				Sampling Point: 💯 🛭	VAG
Tree Stratum (Plot size: 30 4 3)	Absolute	Domina	nt Indicator	Dominance Test worksheet:	
11 Licionalande 2 1 1 15 Can		Species	S? Status	Number of Dominant Species	
2. Liguidamber Stussel Plus	30	71	- FAC M	That Are OBL, FACW, or FAC:	(A)
3. Currus Elocide	20	4	- KM	Total Number of Dominant	
		- 1	- tAcu	Species Across All Strata:	(B)
4				Percent of Dominant Species 37 C	
5				That Are OBL, FACW, or FAC:	(A/B)
6					(/ (/ U)
·				Prevalence Index worksheet:	***************************************
8.				Total % Cover of:Multiply by:	
	80 .	= Total Co	over	OBL species x 1 =	_
50% of total cover: 🔼	20% of	total cove	er: 16	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: SOV 3/1)			··· ————	FAC species x 3 =	
1. Cornus Storido	10	ls'	FAC 4	FACU species x 4 =	****
2. Oxydendren arboreum		\	FACU	UPL species x 5 =	
3. Quereus allog		- 1	FATU	Column Totals: (A)	_
4. Querous pholos		A)	FACW	(1)	(□)
5. Ligusian 5.0000		<u></u>	FAC	Prevalence Index = B/A =	
6		<u> N</u>		Hydrophytic Vegetation Indicators:	
6			-	1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8			• ———	☐ 3 - Prevalence Index is ≤3.01	
72 a. 60	=	Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain	m\
50% of total cover: 205	20% of 1	total cove	r: <u></u>	Explain	11)
Herb Stratum (Plot size:)				¹ Indicators of hydric coil and wettend by the	
1. Hexastyls minor	<u> </u>	N	WI	¹ Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic.	nust
2. Mitchella repens)oz	N	FALU	Definitions of Four Vegetation Strata:	·
3		**************************************			
4				Tree - Woody plants, excluding vines, 3 in. (7.6 c	m) or
5				more in diameter at breast height (DBH), regardle height.	ess of
6		****		_	
7				Sapling/Shrub - Woody plants, excluding vines,	less
8.		····	·········	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8			·	Herb - All herbaceous (non-woody) plants, regard	dless
9			-	of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 f	ft in
11				height.	(
12					
	=	Total Cov	/er		
50% of total cover:	_ 20% of to	otal cover	:		İ
Woody Vine Stratum (Plot size: 🐒 🗴 🐧)		: /			
1. Dmilax Ecturalifola	0	Y	FAC		
2. Title Tollandi Sala	10	Y	FAC		
3. Turicodendeon codicars	6	Y	FAC		
4			* • • • •		
5					
	26	T-+ 1 0		Hydrophytic	
50% of total cover:		Total Cov	έω. I	Vegetation Present? Yes No	ŀ
	_ 20% of to	tal cover:		resNo	
Remarks: (If observed, list morphological adaptations below).				

Profile Des	cription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence			·
Depth	Matrix		Redo	x Feature:					····,	
(inches)	Color (moist)		Color (moist)	%		Loc ²	Texture		Remarks	
<u>Jo </u>	<u> </u>	<u> / OC _</u>					54	10% un	coarded S	Co. 50
1.5	10465/2	106					St			
5-20	10425/3	100					SCL	***************************************		
		-				***************************************				
1Tuno: C=C										
Hydric Soil	oncentration, D=Dep Indicators: (Applic	etion, RM=R able to all I F	educed Matrix, MS	S=Masked	Sand Gra	ins.	Location:	PL=Pore I	_ining, M=Matr	ix.
☐ Histosol			Polyvalue Be			RRS T II		/luck (A9) (matic Hydric	Solis :
Histic E	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S. 1	Γ. U)		лиск (А9) (Лиск (А10)		
1	istic (A3)		Loamy Mucky	/ Mineral ((F1) (LRR	O)				MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)		☐ Piedm	ont Floodpl	ain Soils (F19)	(LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR P	T 11)	Depleted Mat	. ,	·C)				Loamy Soils	(F20)
	ucky Mineral (A7) (LF		Depleted Dar	•	,			RA 153B) arent Matei	rial (TE2)	
☐ Muck Pr	resence (A8) (LRR U)	Redox Depre						k Surface (TF1	12)
	uck (A9) (LRR P, T)		Marl (F10) (L					(Explain in		,
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Och				3			
	rairie Redox (A16) (N	(LRA 150A)	Iron-Mangane Umbric Surfa						drophytic vege	
Sandy M	Aucky Mineral (S1) (L	.RR O, S)	Delta Ochric			0,			ogy must be p ed or problema	
	Gleyed Matrix (S4)		Reduced Veri	tic (F18) (I	MLRA 150	A, 150B)		oco alotarot	od or probleme	itro.
	Redox (S5)		Piedmont Flo							
	l Matrix (S6) rface (S7) (LRR P, S	T 10	Anomalous B	right Loan	ny Soils (F	20) (MLR	A 149A, 153C,	, 153D)		
	Layer (if observed):						T		······································	
Type:										5h.
Depth (inc	ches):						Hydric Soil	Present?	Yes	No
Remarks:										
										With
										Ì
							•			

Wnag005_u



Upland data point wnag005_u facing east



Upland data point wnag005_u facing south

Wnag005 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: C	Dity/County: NASHVILLE / NASH Sampling Date: 5 August 2019
Applicant/Owner:	State: NC Sampling Point: WNAGOO4F
	Section, Township, Range:
Landform (hillslope, terrace, etc.):	_ocal relief (concave, convex, none):
Subregion (LRR or MLRA): Lat: 35° 5°	7'52 351' Long: 77'55' 47.318 Datum:
Soil Map Unit Name: Bonnea 4	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No Remarks:	Is the Sampled Area within a Wetland? Yes No
LIVEDOLOGY.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide Oc	
Water Marks (B1) Oxidized Rhizosphe	eres along Living Roots (C3)
Sediment Deposits (B2)	ed Iron (C4) Crayfish Burrows (C8)
	ion 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	` '
☐ Iron Deposits (B5) ☐ Other (Explain in Re Inundation Visible on Aerial Imagery (B7)	emarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	cpringrium moce (55) (2 ntt 1, 5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	14
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:
Remarks:	
I .	1

	Abaaluta	D	4 1 1	T
Tree Stratum (Plot size: 30 3)	Absolute		t Indicator Status	Dominance Test worksheet:
1. Liniodenson tulipiseen	40	Species		Number of Dominant Species
- Transfer IVI VI SERV		1,	PACH	That Are OBL, FACW, or FAC: (A)
2. Nessa Sylvation	2ml)	<u>\</u>	<u> </u>	T-t-IN (CB)
3. I lex opaca	112	N'	FAC	Total Number of Dominant Species Across All Strata: (B)
4. Pins fredo	10	A l	FK	Species Across All Strata: (B)
		- IV		Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				(/05/
7			-	Prevalence Index worksheet:
0			-	Total % Cover of: Multiply by:
8	- CD - CA			
	80	= Total Co	ver ,	OBL species x 1 =
50% of total cover: 40	20% of	total cove	r. 16	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30+30)		15161 0010	··	FAC species x 3 =
1. The state	1/7	A LP	ENG	FACU species x 4 =
		<u> </u>	· <u>rr</u>	
2. Oxyderdeum as hoseum	- Warring	ΔM_{\perp}	FAC Y	UPL species x 5 =
3. Myssa sylvalica	10	N	EAC	Column Totals: (A) (B)
4. Clark calmifolia	<u>30</u>	\(\frac{1}{3}\)	FACW	
"				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7				1 - Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
0.				3 - Prevalence Index is ≤3.01
	<u></u>	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover	20% of	total cover	r: 🖟	Trobematerrydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30)				
	10	VI	FACW	¹ Indicators of hydric soil and wetland hydrology must
1. Osmunda Cinnamumeam				be present, unless disturbed or problematic.
2. Arundinaria gigantea	2	<u> </u>	FACW	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sanling/Shrub Mandy plants avaluation visus I.
7		***************************************		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				and our DEFF and greater than 5.20 K (1 III) tail.
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
13	······································			height.
12				
	<u> </u>	Total Cov	<i>у</i> ег , ј	
50% of total cover:		total cover	- L-4	
Woody Vine Stratum (Plot size: 30 ⊀30)		00761		
TIOCOLC.	~	a f	an A.A	
	fices .	<u> /// </u>	V / / /	
2. Smilax cotundi Rola		<u>Y</u>	_FAC_	
3				
4				
·				
J	, roypå			Hydrophytic
10°2 m2 =		Total Cov	/er ¿ i	Vegetation
50% of total cover: 💆 🥏	20% of t	total cover	. 1. 1	Present? Yes No No
Remarks: (If observed, list morphological adaptations below		.0.01 00 101	·	
	<i>J</i> .			



SOIL Sampling Point: WNA GOOD FOR

	• •	•		ionit tino i	nuicator	or commit	the absence of indic	ators.)	
Depth	Matrix	<u> </u>		(Feature:					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-4		1 <u>40 </u>					<u> </u>		
H-12	104153/3	100					<u> </u>		
12-16	104 R 5/1	<u>100 _</u>					15		
							7355		

1									
Hydric Soil	oncentration, D=Depl Indicators: (Applica	etion, RM=R	teduced Matrix, MS	=Masked	Sand Gra	ains.	² Location: PL=Por	e Lining, M=Matrix.	3
Histosol		ible to all Lr			•	DD C T 11	Indicators for Pro		olls":
	oipedon (A2)		Polyvalue Bel				I)		
	stic (A3)		Loamy Mucky					c (F18) (outside ML	RA 150A.B)
	n Sulfide (A4)	340	Loamy Gleyed			,		dplain Soils (F19) (L	
	d Layers (A5)		Depleted Matr				Anomalous Bri	ght Loamy Soils (F2	
	Bodies (A6) (LRR P, Icky Mineral (A7) (LR		Redox Dark S				(MLRA 153B		
	esence (A8) (LRR U)		Depleted Dark Redox Depres				Red Parent Ma	iterial (TF2) Park Surface (TF12)	
	ick (A9) (LRR P, T)		Mari (F10) (LF		5,		Other (Explain		
Depleted	d Below Dark Surface	e (A11)	Depleted Och	•	(MLRA 15	51)		,	
: =	ark Surface (A12)		Iron-Mangane				T) ³ Indicators of	hydrophytic vegetat	ion and
	rairie Redox (A16) (M			ce (F13) (LRR P, T,	, U)	•	rology must be pres	
	lucky Mineral (S1) (L Bleyed Matrix (S4)	RR 0, S)	Delta Ochric (Reduced Vert			NA 460B\		rbed or problematio	•
	Redox (S5)		Piedmont Floo						
☐ Stripped	Matrix (S6)						A 149A, 153C, 153D)		
	rface (S7) (LRR P, S,	, T, U)							
	Layer (if observed):								
Туре:	Layer (if observed):			VVIIIVA				1000	
Type: Depth (in	Layer (if observed):						Hydric Soil Present	? Yes	No
Туре:	Layer (if observed):			grang.	470	* 2	1	?? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	Mond	16	1	?? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	Mond	16	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	8.4	yand	16	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yand	and b	1	?? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	8,4	yand	en 6	1	?? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yand	**************************************	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	R	ayond	**************************************	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	Be	ryand	and the second	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yand	en de	1	1? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yand	and b	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yond	16	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	ryand	- 6	1	17 Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	8<	yand	en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	1	17 Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yand	and be	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yond	eritana.	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yond	16	1	? Yes	No
Type: Depth (in	Layer (if observed):		Refrieve	84	yand		1	? Yes_\	No
Type: Depth (in	Layer (if observed):		Retrieve	84	ryand		1	17 Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	8	yand	and the second s	1	? Yes	No
Type: Depth (in	Layer (if observed):		Retrieve	84	yond	and the second s	1	? Yes	No

wnag004f_w



Wetland data point wnag004f_w facing south



Wetland data point wnag004f_w facing west

احد المحافقة المحافق

Project/Site SEAP	City/County Nash Sampling Date WNA6 004
Applicant/Owner DOMINION	State NC Sampling Point 8/3/14
	Section, Township, Range.
	Local relief (concave, convex, none): CONVEX Slope (%): 3
	57 52.372" Long 77°55 46,522" Datum
Soil Map Unit Name BON hea 4	NWI classification NA
Are climatic / hydrologic conditions on the site typical for this time of year	
	disturbed? Are "Normal Circumstances" present? Yes NoNo
Are Vegetation Soil or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2)	Drainage Patterns (B10) Dodor (C1) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2)
Surface Water Present? Yes No Depth (inches)	714
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	Wetland Hydrology Present? Yes No
Remarks. Lu Wetland hydrology indicate.	is are not present.

VEGETATION (Four Strata) – Use scientific na				Sampling Point: W/0/	1000
Tree Stratum (Plot size: 30)	Absolute	Dominant	t Indicator	Dominance Test worksheet:	
1. Quenus alba	<u>% Cover</u> 40	Species?	FAC 4	Number of Dominant Species	
2 Pione terda	- 73	- ,	FACU	That Are OBL, FACW, or FAC:	(A)
		7		Total Number of Dominant	
4. Oxydendryn arboreum	- / 3	<u></u>	FACY FACY	Species Across All Strata:	(B)
E		—/ <u>y</u> —		Percent of Dominant Species	
6.				That Are OBL, FACW, or FAC 50	(A/B)
7.	-			Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
		= Total Co	wor.	OBL species x 1 =	
50% of total cover	5 20% of	total cave	, 14	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 30	20 /0 UI	total cover	<u> </u>	FAC species x 3 =	
1. Oxylindrim arborenn	10	V	FACU	FACU species x 4 =	
2. Ilex ogreca	10	- 1 /		UPL species x 5 =	
3.			FAC	Column Totals:(A)	
4.					
5.				Prevalence Index = B/A =	-
56.				Hydrophytic Vegetation Indicators:	***************************************
6				1 - Rapid Test for Hydrophytic Vegetation	
7 8	-		***************************************	2 - Dominance Test is >50%	
	70	= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
50% of total cover: 10	200/ -4	= Total Cov	ver 4	Problematic Hydrophytic Vegetation¹ (Explain)	1)
Herb Stratum (Plot size:30	20% 01	total cover			
	Uo	V	FAC W	Indicators of hydric soil and wetland hydrology mu	ust
1. Cheethers almilles 2. Vaccinium standarum		- N	FAC4	be present, unless disturbed or problematic.	
				Definitions of Four Vegetation Strata:	
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cn	m) or
5				more in diameter at breast height (DBH), regardles height.	ss of
6				_	
				Sapling/Shrub - Woody plants, excluding vines, le	ess
7	-		***************************************	than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-woody) plants, regardl	less
10	****			of size, and woody plants less than 3.28 ft tall.	
				Woody vine - All woody vines greater than 3.28 ft	t in
11	***************************************			height.	
12	· · · · · · · · · · · · · · · · · · ·				
22		= Total Cov	-		
50% of total cover: 22	<u> </u>	total cover:	7		
)		M	= 4.0		
1 Ustes rotendifolia		1	FAC_		
3.					
4					
5				Hydrophytic	
		Total Cove	er l	Vegetation	
and the contract of the contra					ì
50% of total cover	20% of t			Present? Yes No	

Sampling Point: WHAGO OF LU

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix			ox Feature:				,
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10 PR 4/2		····				3L	
3-00	104R 5/2						25	
5-14+	10 YR 5/3							
	- - (42 / 							
		···		_		************		
	• •							
¹Type: C=C	Concentration, D=De	pletion, RM=R	leduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PI =	Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all Li	RRs, unless othe	rwise note	ed.)	***************************************		Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					(A9) (LRR O)
	pipedon (A2)		Thin Dark St				2 cm Muck	(A10) (LRR S)
1 ==	listic (A3)		Loamy Muck			0)		ertic (F18) (outside MLRA 150A,B
	en Sulfide (A4) d Layers (A5)		Loamy Gleye		-2)		I 1	loodplain Soils (F19) (LRR P, S, T)
	Bodies (A6) (LRR I	2. T. U)	Depleted Ma	, ,	6)		Anomalous	Bright Loamy Soils (F20)
	ucky Mineral (A7) (L		Depleted Da		,		()	Material (TF2)
Muck P	resence (A8) (LRR I	J)	Redox Depre					ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Mari (F10) (L	₋RR U)	,			lain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc		•	•		
	ark Surface (A12)	*** ** 450.43	Iron-Mangan					s of hydrophytic vegetation and
	Prairie Redox (A16) (Mucky Mineral (S1) (U)		hydrology must be present,
	Gleyed Matrix (S4)	LKK 0, 3j	Delta Ochric Reduced Ve		,) A 150E)	uniess d	listurbed or problematic.
	Redox (S5)		Piedmont Flo				ιΔ)	
Stripped	d Matrix (S6)						. 149A, 153C, 153	D)
	urface (S7) (LRR P,					, ,	, ,	•
Restrictive	Layer (if observed)	:						***************************************
Type:	***************************************							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Depth (in	iches):						Hydric Soil Pres	sent? Yes NoX_
Remarks:		ř						
14_	driv so	in) incl	Pretere	191-1	0.1		11=10+	-
1 7	<u></u>	16 /	, , ,		1101	P		
						•		

Wnag004_u



Upland data point wnag004_u facing east



Upland data point wnag004_u facing north

Wnag004 soils



Wetland/upland soils

WETLAND DETERMINATION DAT	A FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SERP	City/County: DESH Sampling Date:
Applicant/Owner:	State: NC Sampling Point: WNA6008 F_
Investigator(s): DOWEST	Section, Township, Range:
Landform (hillslope, terrace, etc.): Bollom wand	
Subregion (LRR or MLRA): Lat: 35	1°57' 32.80" Long: 77°556' 23.489" Datum:
Soil Map Unit Name: Rains	Local relief (concave, convex, none): CONCOR Slope (%): 1
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significar	
Are Vegetation, Soil, or Hydrology naturally	,
	,
Attach site map showl	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No No	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	
Surface Water (A1) High Water Table (A2) Aquatic Fauna (IIII) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfid	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surfa	,
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	2 (phogram mood (50) (2 (1) (1) (5)
Surface Water Present? Yes No Depth (inch	es):
Water Table Present? Yes No Depth (inch	
Saturation Present? Yes No Depth (inch (includes capillary fringe)	es): No No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
Hydrology	200 miles
5 7 7	2000

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

EGETATION (Four Strata) – Use scientific r	names of plants.		Sampling Point: WNA6 00 & F
0	Absolute Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)	<u>% Cover Species?</u>	Status	Number of Dominant Species
Pinus tarda	$-2D_{\perp}V_{\perp}$	-AX	That Are OBL, FACW, or FAC: (A)
Hear subrum	$\sqrt{20}$	FAL	
Liquid-Amber Styracit		500	Total Number of Dominant
	male V	17	Species Across All Strata: (B)
			Description of Description of Occasion
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
			THAT ALE OBL, FACTO, OF FAC.
			Prevalence Index worksheet:

	_ <u>6∂</u> = Total Cov	er er	OBL species x 1 =
50% of total cover: 3	O 20% of total cover:	12	FACW species x 2 =
pling/Shrub Stratum (Plot size:			FAC species x 3 =
Lighteramber Styracy The	11	~~~	FACU species x 4 =
	- 12	1/TV	
loter orleans	_ <u>/</u>	1-AC	UPL species x 5 =
Clother Alrifolia	35 1/	FIXW	Column Totals: (A) (B)
Magnolia ungunara	- 75 V	FACE	
- y - in vir y - icorei		TILL	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
	7D = Total Cov		3 - Prevalence Index is ≤3.01
	= Total Cov	er) / [Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of total cover:	1	
rb Stratum (Plot size:)	· · · · · · · · · · · · · · · · · · ·		¹Indicators of hydric soil and wetland hydrology must
19 Duradus overestata	25 /	OBL	be present, unless disturbed or problematic.
Affryour fely Louisa	72	FAVI	Definitions of Four Vegetation Strata:
/		1,00	Definitions of Four Vegetation Strata:
			Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub – Woody plants, excluding vines, less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vine - All woody vines greater than 3.28 ft in
			height.
	US = Total Cove	er 📿 📗	
50% of total cover: 22	20% of total cover:	/	
ody Vine Stratum (Plot size:)			
Salatum (Flot size.	2 /	8700	
SWINDY DELTHORSONOR	-20-14	0,190	
Vitts rotunditolic	-10V	FAC	
			Hydrophytic \ \ \ \ \ \
	= Total Cove	er 🗢 📗	Vegetation
50% of total cover:	20% of total cover:	/	Present? Yes V No
narks: (If observed list morphological adaptations bo			
(ii oboot tou, list morphological adaptations be	iow).		
Remarks: (If observed, list morphological adaptations be	low).		
		MOUNT	

SOIL

Sampling Point: WNA6007F.W

Profile Des	cription: (Describe	to the depth	needed to docu	ment the ir	dicator	or confir	m the absence	of indicat	tors.)	
Depth	Matrix		Redo	x Features					•	
(inches)	Color (moist)		Color (moist)	%	Type	_Loc ²	Texture		Remarks	
0-10	104R211						Stand	770	2000 te	d spand
10-16	IDYR S /I									<u> </u>
							-			
									7,000	
				-						
		-								
¹ Type: C=C	oncentration, D=Dep	oletion, RM=R	educed Matrix, M	S=Masked	Sand Gra	ains.	² l ocation:	PI =Pore I	Lining, M=Matri	v .
Hydric Soil	Indicators: (Applic	able to all LF	RRs, unless other	rwise note	d.)		Indicators	for Proble	ematic Hydric S	Soils ³ :
. Histosol			Polyvalue Be			RR S. T.		uck (A9) (-	,
Histic E	pipedon (A2)		Thin Dark Su					uck (A10)		
	istic (A3)		Loamy Muck						F18) (outside N	M RA 150A B)
	en Sulfide (A4)		Loamy Gleye			-,			lain Soils (F19)	
	d Layers (A5)		Depleted Ma		,		☐ Anomai	lous Briah	t Loamy Soils (F	=20)
U Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F6	3)			A 153B)		,
. ☐ 5 cm Mu	ucky Mineral (A7) (LF	RR P, T, U)	Depleted Dar					rent Mate	rial (TF2)	Ì
	resence (A8) (LRR U	l)	Redox Depre	ssions (F8)				k Surface (TF1;	2)
	uck (A9) (LRR P, T)								Remarks)	´
Deplete	d Below Dark Surfac	e (A11)	Depleted Oct	hric (F11) (I	MLRA 15	1)			•	
I nick D	ark Surface (A12)		iron-Mangan	ese Masse:	s (F12) (L	.RR 0, P	, T) ³ Indica	ators of hy	drophytic veget	ation and
Coast P	rairie Redox (A16) (MLRA 150A)				U)	wetl	and hydro	logy must be pr	esent,
	Mucky Mineral (S1) (I	₋RR O, S)	Delta Ochric				unle	ss disturb	ed or problemat	ic.
	Gleyed Matrix (S4)		Reduced Ver							
	Redox (S5) I Matrix (S6)		Piedmont Flo							
	rMatrix (36) irface (S7) (LRR P, S	T 10	Anomalous B	right Loam	y Soils (F	20) (MLF	RA 149A, 153C,	153D)		
Restrictive	Layer (if observed):	, 1, 0)					· _ · · · · · · · · · · · · · · · · · ·			
Type:	Layer (ii observeu).								,	
									\/	
	ches):						Hydric Soil F	resent?	Yes	No
Remarks:										
								_		
		7.4			\wedge		i	\cap		
		61-	enz :	0	$() \wedge$	\ \ \ \ \	10.5			
		Hus	uc c	\mathcal{Y}	× /-		son	Y		
					,		· ·	U		
										1
										İ
										Ī

wnag008f_w



Wetland data point wnag008f_w facing south



Wetland data point wnag008f_w facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region _____ City/County: _______ ASH____ Project/Site: Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): ____ Lat: 35° 57'32.755" Long: 77° 56' 22, 584 Subregion (LRR or MLRA): Rains Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes ___ Depth (inches): ___ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology present

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

	nes of pl	lants.			Sampling Point: WNAG 00%
	Absolute	Dominant	Indicator	Dominance Test worksh	
ree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Spe	cies . l
Querus gelba	20	<u> </u>	FACU	That Are OBL, FACW, or	
O'xy don as hered	30	-	FACV	Total Number of Dominar	
Ligadardon tulipidaga	30		EALU	Species Across All Strata	
Lizar Domlor Styres the	(5)		THAC	İ.	,
				Percent of Dominant Spe	cies
				That Are OBL, FACW, or	FAC: (A/B)
				Prevalence Index works	heet:
				Total % Cover of:	Multiply by:
	115	\		OBL species	
		⊆ Total Cov		FACW species	
50% of total cover:	20% of	total cover	: <u>~</u>		
apling/Shrub Stratum (Plot size:)	10	. /		FAC species	
Exylogo From der ponea	-10	-	FACC	JFACU species	
Stething ally Robe	-10	$-U_{\ell}$	FACH	JUPL species	
Ovorus allow	_1D		FACU	Column Totals:	(A) (B)
Liquidantos styracitica	10	$\overline{}$	FIA		
					B/A =
				Hydrophytic Vegetation	
				1 - Rapid Test for Hyd	
				2 - Dominance Test is	
	HI			☐ 3 - Prevalence Index	is ≤3.0¹
		≠ Total Cov		Problematic Hydrophy	ytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover			_ , ,
erb Stratum (Plot size:)	15	• /		Indicators of hydric soil a	nd wetland hydrology must
Mitchella reposis	/2		FACU	be present, unless disturb	ed or problematic.
Vitis other Dock	10		FAIL	-Definitions of Four Vege	etation Strata:
				more in diameter at breas	luding vines, 3 in. (7.6 cm) or theight (DBH), regardless of
				height.	t neight (DBH), regardless of
					
7,000				Sapling/Shrub – Woody p than 3 in. DBH and greate	plants, excluding vines, less
				man sin. DBH and greate	i than 3.26 ft (1 m) tall.
				Herb - All herbaceous (no	on-woody) plants, regardless
				of size, and woody plants	less than 3.28 ft tall.
				Woody vine - All woody y	vines greater than 3.28 ft in
				height.	wiles greater than 5.25 k m
	20.	= Total Cov	er , i`		
50% of total cover: _ / D		total cover:	4 ff		İ
oody Vine Stratum (Plot size :)	2076 C.	4			
Water Morenta Educa	101	1/2	FAE		
		'	MAG		
Smoon the believe	ACM .				
Smlox ropusifelia (0				
Smlox roteres felia	0				
Smlox rokusifelia					
Smlox ropuser felia				Hydrophytic	
Smlox rokuerfelia		= Total Cov	er	Hydrophytic Vegetation	
Smlox ropesed felia			I		No

SOIL

SOIL					Sampling Point: WNAG008-
Profile Desc	ription: (Describe to the dept	h needed to document (he indicator or confirm	the absence of indic	ators.)
Depth	Matrix	Redox Fea			,
(inches)	Color (moist) %	Color (moist) 9/	Type ¹ Loc ²	Texture	Remarks
147	104R4/2			Spord	
4-15	104R 21/3			Sond	
	1/-			31373	
	-				
¹Type: C=Co	oncentration, D=Depletion, RM=	Reduced Matrix MS-Mar	skod Sand Crains	21	
Hydric Soil I	ndicators: (Applicable to all L	RRs. unless otherwise	noted)	² Location: PL=Por	
☐ Histosol			urface (S8) (LRR S, T, U)		plematic Hydric Soils ³ :
=	ipedon (A2)	Thin Dark Surface	(S9) (I RR S T II)	1 cm Muck (A9 2 cm Muck (A1	
Black Hi	stic (A3)	Loamy Mucky Mine	eral (F1) (LRR O)		(F18) (outside MLRA 150A,B)
	n Sulfide (A4)	Loamy Gleyed Mat	rix (F2)		Iplain Soils (F19) (LRR P, S, T)
	Layers (A5)	Depleted Matrix (F:			ght Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surfac		(MLRA 153B)
Muck Pr	cky Mineral (A7) (LRR P, T, U) esence (A8) (LRR U)	Depleted Dark Surf		Red Parent Ma	
1 cm Mu	ck (A9) (LRR P, T)	Redox Depressions Marl (F10) (LRR U			ark Surface (TF12)
	Below Dark Surface (A11)	Depleted Ochric (F		U Other (Explain	n Remarks)
	rk Surface (A12)		asses (F12) (LRR O, P, T	1 Indicators of I	nydrophytic vegetation and
. Coast Pr	airie Redox (A16) (MLRA 150A)	Umbric Surface (F1	3) (LRR P, T, U)		rology must be present,
	ucky Mineral (S1) (LRR O, S)	Delta Ochric (F17)	(MLRA 151)		bed or problematic.
	leyed Matrix (S4)	Reduced Vertic (F1	8) (MLRA 150A, 150B)		. ,
	edox (S5)		n Soils (F19) (MLRA 149		
	Matrix (S6)	Anomalous Bright L	oamy Soils (F20) (MLRA	149A, 153C, 153D)	
	face (S7) (LRR P, S, T, U) ayer (if observed):		· · · · · · · · · · · · · · · · · · ·		
Type:	ayer (ii observeu).				
Depth (inc	hes):	·········		Hydric Soil Present	? Yes No
Remarks:					
	1)=	Lydric	Seels	N 4 9 A N	1
	\sim	7	3		
		•	,	•	
					İ

wnag008_u



Upland data point wnag008_u facing east



Upland data point wnag008_u facing north

wnag008 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SERP City/County: NASH VI/TE / NASH Sampling Date: 5 August Zerr Applicant/Owner: Down area State: No Sampling Point: WNASOTE W
Applicant/Owner: Down Alen State: No Sampling Point: WMA 4007 1
Investigator(s): 1/1/ VVE 2/ Section Township Banco
Landform (hillslope, terrace, etc.): Rotton Local relief (concave, convex, none): Slope (%):
Landform (hillslope, terrace, etc.): Bottom Local relief (concave, convex, none): Slope (%): Subregion (LRR or MLRA): T Lat: 35°57′17.796 Long: 77°56′41,267″ Datum:
Soil Map Unit Name: Rains 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? Yes No Is the Sampled Area Wetland Hydrology Present? Yes No within a Wetland? Yes No
Remarks:
The three criteria are present. The sampling point is located within a wetland.
HYDROLOGY
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) In Innudation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Cambridge Advanced in the capital photos, previous inspections), if available: Remarks:
Wetland hydrology is present.

Sampling Point: WNAGOO7F_W VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _30 × 30 % Cover Species? Status **Number of Dominant Species** 1. Kiciodenden tolipitera FACU That Are OBL, FACW, or FAC: 2. Pinus tuedas Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ _ = Total Cover FACW species ____ x 2 = __ 20% of total cover: 50% of total cover: FAC species _____ × 3 = ____ Sapling/Shrub Stratum (Plot size: 30 %) FACU species _____ x 4 = ____ 1. Cicio dendron tulin feren UPL species ___ Acec cabrage x 5 == _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 _ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in この_ = Total Cover 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 1. LONICORD JODGNES Hydrophytic = Total Cover Vegetation Present? 50% of total cover: 20% of total cover: ___ Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation is dominant.

Depth	cription: (Describe Matrix			x Feature				•
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
2-2	107/2/2	100 -					SC	
2-20	104/23/2	95	10425/4	5	<u></u>	M	SCL	
<u> 21-29</u>	10425/1	10%					Set	
	1							
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy R Stripped Dark Su Restrictive I Type: Depth (inc	pipedon (A2)	, T, U) RR P, T, U) e (A11) fLRA 150A) LRR O, S)	RRs, unless other Polyvalue Be Thin Dark Su Loamy Muck; Loamy Gleye Depleted Mai Redox Dark Si Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangane Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo Anomalous B	rwise note flow Surfa inface (S9) y Mineral ed Matrix (trix (F3) Surface (F rk Surface essions (F3) hric (F11) ese Massi ice (F13) ((F17) (ML tic (F18) (loodplain S	ed.) ce (S8) (LI (F1) (LRR S, 7 (F1) (LRR F2) 6) (F7) 8) (MLRA 15 es (F12) (L LRR P, T, RA 151) MLRA 150 oils (F19) (RR S, T, U T, U) O) ARR O, P, U) DA, 150B) (MLRA 148	Indicators 1 cm M 2 cm M Reduce Anoma (MLF Red Pa Very Si Other (T) 3Indic wett	

wnag007f_w



Wetland data point wnag007f_w facing east



Wetland data point wnag007f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SERP	City/County: NASAVITE / NASA Sampling Date: S Avage 344 State: N Sampling Point: WNA6 00 7 M
Applicant/Owner:	State: Nampling Point: WNA 007 - W
investigator(s). a e v v v	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): CANCARS Stone (6())
Subregion (LRR or MLRA): Lat: 35°5'	7'13.204" Long: 77°56'41.150' Datum:
SOIL Man Unit Name: FS 0. (V.)	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No. (If no ovalois is Remodul)
Are Vegetation, Soil, or Hydrology significantly of	The state of the s
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
The three wetland criteria are not present. The	ne sampling point is not located within a wetland.
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Gincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos,	CLRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) In in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) C7) Geomorphic Position (D2) marks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No
Wetland hydrology is not present.	

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

Sampling Point: WAAGOO7-U

(January 200 Goldmine Ha					ling Point: 🚧	$A \in Q$
Tree Stratum (Plot size: 30 K30)	Absolute % Cover	Dominan	t Indicator ? Status	Dominance Test worksheet:		
1. Carya tomontos	20	√ V	<u>: Status</u> ルナ	I Municel of Dominant Species	11	
2. Quercus al m	200	4	FACY	_ That Are OBL, FACW, or FAC:		(A)
3. Pinus tack	15	- /	FAC	illotal Number of Dominant	<i>E</i>	
4. Listedendson tolipifer	1/	7/	FACH	Species Across All Strata:		(B)
5.	10	<u> </u>	PACT	Percent of Dominant Species	ا	
, i				- That Are OBL, FACW, or FAC:	_45	(A/B)
7				Prevalence Index worksheet:		
8				Total % Cover of:		
37 /		= Total Co	ver	OBL species x		
50% of total cover: 32.5	20% of	total cover	: <u>13</u>	FACW species x2		
Sapling/Shrub Stratum (Plot size:)	10562			FAC species x3		
1. Pinus torda	<u></u>	<u> </u>	<u>FRC</u>	FACU species x 4	4 =	_
Z			<u>FAC</u>	UPL species x 5	5 =	
3. Ultipoendron tulipoea	and fin	<u> </u>	FACL	Column Totals: (A)		_ (B)
4			1	Daniel Control		
5				Prevalence index = B/A =		
0				Hydrophytic Vegetation Indicat		
7				1 - Rapid Test for Hydrophyti	c Vegetation	
8				=		
	15 =	Total Cov		3 - Prevalence Index is ≤3.01		
50% of total cover:	 20% of t	total cover	. Z	Problematic Hydrophytic Veg	etation¹ (Explai	n)
Herb Stratum (Plot size: "\() \(\) \(\) \(\)		otal cover	· ———		1	
1. Thelypters novebruensis	5	Y	NI	¹ Indicators of hydric soil and wetla	and hydrology m	nust
2. Mitchella repens		- U	FACY	be present, unless disturbed or pr		
3. Microstegium Vimineum	1500.	L/	FAC	Definitions of Four Vegetation S	Strata:	
	g			Tree - Woody plants, excluding vi	ines, 3 in. (7.6 c	m) or
5.				more in diameter at breast height	(DBH), regardle	ess of
5				height.		
6				Sapling/Shrub - Woody plants, e	xcluding vines,	less
7				than 3 in. DBH and greater than 3.	.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-wood)	v) plants regard	dese
9				of size, and woody plants less than	n 3.28 ft tall.	11033
IU.				Woody vine - All woody vines gre		۸. ا
II.				height.	ater than 3.28	πın
12.				To a second		
**/	<u> </u>	Total Cove	er			
50% of total cover:	_ 20% of to	otal cover:	3			
Woody Vine Stratum (Plot size: 30 x 30)	1 000	á				
1. Vitis Cotondition	<u> </u>	<u>/</u>	FAC			
2. Vasthenocisous quinquestic	<u> </u>	<u> </u>	FACH			
3		,				ĺ
4						
5				. Hardwards de		
	20 =	Total Cove	r /	Hydrophytic Vegetation	Λ.	
50% of total cover:		tal cover:	7.8	D. 40	No	
Remarks: (If observed, list morphological adaptations below)						
Hydrophytic vegetation is not do	minant	•				
						l

Sampling Point: Wha G 007. 4

Redox Features Color (moist) % Type Loc Texture Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coation: PL=Pore Lining, M=Matrix.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Cocation: PL=Pore Lining, M=Matrix.	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) I cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (inches): Depth (A2) Depth (A2) Depth (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depth (A3) Depth (A3) Depth (A4) D	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) I cm Muck (A9) (LRR S) Depleted Matrix (F2) Depleted Dark Surface (F6) I cm Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Mard (F10) (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 Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depty (IRR S, T, U) I cm Muck (A9) (LRR S, T, U) Depleted Matrix (S6) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (MLRA 151) I cm Muck (A9) (LRR P, T, U) Depleted Matrix (F2) Depleted Dark Surface (F7) Mard (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Delta Ochric (F17) (MLRA 151) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Depth (inches): Description (A2) Depth (inches): Description (A2) Description (RR S, T, U) Depleted Matrix (S6) Dark Surface (F1) Mard (F10) (LRR U) Depleted Derive (F18) (MLRA 150A, 150B) Description (RR P, T, U) Depth (inches): Hydric Soil Present? Yes No	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) I cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (inches): Depth (A2) Depth (A2) Depth (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depth (A3) Depth (A3) Depth (A4) D	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A9) (LRR S) Holyadus Matrix (F2) Depleted Matrix (F3) Tom Muck (A9) (LRR P, T, U) 1 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A) Nard (F10) (LRR U) Depleted Delow Surface (F6) Tom Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sirped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Derived Carles (F10) Derived Ochric (F17) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) I cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (inches): Depth (A2) Depth (A2) Depth (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depty Surface (A3) Depth (A3) Depth (A3) Depth (A4) D	- www.
Histosol (A1)	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (James A) Depth (James A) De	
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A1) (LRR S) Bedox Dark Surface (F6) Tom Muck (A9) (LRR P, T, U) Depleted Bolw Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (A1) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Deptor Vision Dark Surface (S8) (LRR S, T, U) Depth (inches): Depth (inches): Depth (inches): Deptovatine Below Surface (S8) (LRR S, T, U) Deploy (Inches): Deploy (Inches): Deploy (Inches) Deploy (Inches	
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) 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 Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Deptet (Inches): Deptet (Inches): Deptet Coast Prairie Redox (A16) (MLRA 150A) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F6) Mark Surface (F7) Mark Surface (F7) Mark Surface (F7) Mark Surface (F7) Mark Surface (F7) Mark Surface (F7) Mark Surface (F7) Mark Surface (F13) (LRR O, P, T) Depleted Ochric (F17) (MLRA 151) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Depleted Dark Surface (S9) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Destrictive Layer (if observed): Type: Depth (inches): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (if observed): Destrictive Layer (i	3 ³ :
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Sandy Redox (S5) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	ιι,
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estrictive Layer (if observed): Type: Depth (inches): emarks: Hydric Soil Present? Yes No	
Depth (inches): Hydric Soil Present? Yes No emarks:	
emarks:	
emarks:	
Hydric soil is present.	
Hydric soil is present.	

wnag007_u



Upland data point wnag007_u facing east



Upland data point wnag007_u facing south

wnag007 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: ACP Applicant/Owner: Domunion Investigator(s): ___ Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): ______ Subregion (LRR or MLRA): Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Surface Water (A1) 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) __ Algai 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? Depth (inches) Water Table Present? Saturation Present? Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: brology present

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

WNAGOLI
Sampling Point:
ninance Test worksheet:
nber of Dominant Species Are OBL, FACW, or FAC:(A)
I Number of Dominant cles Across All Strata:
eent of Dominant Species Are OBL, FACW, or FAC: (A/B)
valence Index worksheet:
Total % Cover of: Multiply by:
species x 1 =
W species x 2 =
species x 3 =
U species x 4 =
species x 5 =
mn Totals: (A) (B)
Prevalence Index = B/A =
rophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0¹
Problematic Hydrophytic Vegetation ¹ (Explain)
cators of hydric soil and wetland hydrology must esent, unless disturbed or problematic.
nitions of Four Vegetation Strata:
- Woody plants, excluding vines, 3 in. (7.6 cm) or in diameter at breast height (DBH), regardless of it.
ing/Shrub – Woody plants, excluding vines, less 3 in. DBH and greater than 3.28 ft (1 m) tall.
– All herbaceous (non-woody) plants, regardless e, and woody plants less than 3.28 ft tall.
dy vine – All woody vines greater than 3.28 ft in t.

	The state of production	Sampling Point:
Tree Stratum (Plot size: 30)	Absolute Dominant Indicat	or Dominance Test worksheet:
itee Statum (Flot size:)	% Cover Species? Statu	s }
1. Hear rubnum	30 V FAC	- Number of Dominant Species
		(A)
2. Live apparon telepitera	30 V/ FAC	U Total Number of Bassis and
3. Magnoba Virginiana	20 V FAC	Total Number of Dominant
40		Species Across All Strata: (B)
5		Percent of Dominant Species
6		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
8		
	Total Cover	OBL species x 1 =
500/ 1. / 1		
50% of total cover: 41	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30)	~~	FAC species x 3 =
1 Marial	1 4	
1. Magnolia verginiana	FAC	FACU species x 4 =
2 Tea Virginica	1/) - FAC	UPL species x 5 =
3. Acer rubrum	7 - 1	
	<u> </u>	Column Totals: (A) (B)
4		
5		Prevalence Index = B/A =
5		
6		
6		─ │
7		2 - Dominance Test is >50%
8		
		— ☐ 3 - Prevalence Index is ≤3.0 ¹
	_ <u>රු </u>	Department of the state of the
50% of total cover: 37	20% of total cover: / 2	Problematic Hydrophytic Vegetation¹ (Explain)
50 % of total cover.	20% of total cover:	<u>-</u>
Herb Stratum (Plot size:)	/	The Person of the Heat of the Control of the Contro
1. Houndinaria granteci	40 1/ 500	Indicators of hydric soil and wetland hydrology must
- The state of the	90 V FAC	be present, unless disturbed or problematic.
2. Woodwarded deceolata	25 V 081	Definitions of Four Vegetation Strata:
3 Krohmerta culmatara		
3. Brohmerta cylindrica	5 FAC	A/
3. Brokmerta cylindrica	5 FAC	Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
3. Brohmerta cylindrica 4.	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
3. Brohmerta cylindrica 4. 5.	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
3. Brohmerta cylindrica 4. 5.	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
3. Szekmerta cylindrica 4. 5.	5 FAC	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
3. <u>Spokmerta cylindrica</u> 4. 5. 6. 7.	5 FAC	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
3. <u>Spokmerta cylindrica</u> 4. 5. 6. 7.	5 FAC	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.
3. <u>Brohmerta cylindrica</u> 4. 5. 6. 7. 8.	5 FAC	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
3. <u>Brohmerta cylindrica</u> 4. 5. 6. 7. 8.	5 FAC	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
3. <u>Brohmerta cylindrica</u> 4. 5. 6. 7. 8.	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. <u>Brohmerta cylindrica</u> 4. 5	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. <u>Brohmerta cylindrica</u> 4. 5	5 FAC	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
3. Spanneria cylindrica 4. 5	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. <u>Brohmerta cylindrica</u> 4. 5	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. Spanneria cylindrica 4. 5	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. Spanneria cylindrica 4. 5	70 = Total Cover	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. Spanneria cylindrica 4. 5	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. Spanneria cylindrica 4. 5	70 = Total Cover	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
3. Spanneria cylindrica 4. 5	70 = Total Cover 20% of total cover: 14	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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3. Spanneria cylindrica 4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 3.5 Woody Vine Stratum (Plot size: 3.5) 1. Smalax curri toha. 2. Smalax manus folia. 3. Uits robura toha. 4. 5.	70 = Total Cover 20% of total cover: 14 10 FAC 10 FAC 10 FAC 10 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
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3. Spanneria cylindrica 4. 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 35 Woody Vine Stratum (Plot size: 3) 1. Spanneria cum folica 2. Spanneria cum folica 3. Urtis robura folica 4. 5.	70 = Total Cover 20% of total cover: 14 10 FAC 10 FAC 10 FAC 10 FAC 20% of total cover: 6	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
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DIL			Sampling Point:
	th needed to document the indicator or confirm	n the absence	of indicators.)
Depth Matrix inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	Texture	Remarks
D-14 104R2/1		lonn	mucky munera
4-18-104R3/1		1 /	Trucky mileral)
		anery com	^
ype: C=Concentration, D=Depletion, RM= ydric Soil Indicators: (Applicable to all I	Reduced Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Matrix.
Histosol (A1)			for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR S, T, L Thin Dark Surface (S9) (LRR S, T, U)		fluck (A9) (LRR O) fluck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR 0)		ed Vertic (F18) (outside MLRA 150A,B
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		ont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)		llous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)		RA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)	⊢ Red Pa	arent Material (TF2)
Muck Presence (A8) (LRR U)	Redox Depressions (F8)		hallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Ochric (F11) (MLRA 151)	 3	
Coast Prairie Redox (A16) (MLRA 150A	Iron-Manganese Masses (F12) (LRR O, P, Umbric Surface (F13) (LRR P, T, U)	•	ators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)		land hydrology must be present, ess disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	dille	ss distarbed of problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	9A)	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR		153D)
Dark Surface (S7) (LRR P, S, T, U)			,
estrictive Layer (if observed):			
Туре:		ĺ	
Depth (inches):		Hydric Soil	Present? Yes No
emarks:		<u> </u>	
,	tydriz soil pr		^
/6	tudore son .		
·		esent	ν
	,	`	•



Wetland data point *WNAG011_w* facing east



Wetland data point *WNAG011_w* facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: NASH Sampling Date: $\mathcal{T} - 21 - 15^-$ Project/Site: Applicant/Owner: Dominion . Sampling Point: WMAG 0 DOWSST Investigator(s): Section, Township, Range: ____ Local relief (concave, convex, none): _c on vex Subregion (LRR or MLRA): L63 Long: 77.8825 Soil Map Unit Name: _ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? No within a Wetland? Wetland Hydrology Present? Yes Remarks: Not all three para meters **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) FAC-Neutral Test (D5) ☐ Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology preser

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

Sampling Point: _____

Tree Stratum (Plot size: 30	Absolute Dominant		Dominance Test worksheet:
	% Cover Species?		Number of Dominant Species
1. Pinus tarda	50 V	FAC	That Are OBL, FACW, or FAC: (A)
2. Lyrio Den Dron tulipe Fera	20 4	FACU	Total Number of Dominant
3. Exception reporter	20 V	FACU	Species Across All Strata: (B)
4		<u> </u>	\
5			Percent of Dominant Species
6			That Are OBL, FACW, or FAC: (A/B)
7			Prevalence Index worksheet:
7.			Total % Cover of: Multiply by:
8	00		OBL species x1 =
	_90 = Total Cov		
50% of total cover: 45	20% of total cover	: <u>10</u>	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	/		FAC species x 3 =
1. Oxydandron by borgan	13 0	FACU	
2. Lirfdbeudvon telipitera	15	FACU	UPL species x 5 =
3 Leccinium staminium	<u>5</u>	FACU	Column Totals: (A) (B)
			Dravalance Index on B/A
5			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
,7,	35 = Total Co	∕er ¬	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>(7, 5</u>	20% of total cover	:	
Herb Stratum (Plot size:)		. .	¹ Indicators of hydric soil and wetland hydrology must
1. Usming a cincinomeci	<u> </u>	FACIN	be present, unless disturbed or problematic.
2. Brundinaria grantea	<u> </u>	FACW	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.
			than o in. BBM and greater than 0.20 K (1 in) tall.
8			Herb - All herbaceous (non-woody) plants, regardless
9			of size, and woody plants less than 3.28 ft tall.
10			Woody vine - All woody vines greater than 3.28 ft in
11			height.
12			
	Total Cov	er 🦴	
50% of total cover:	20% of total cover		
Woody Vine Stratum (Plot size: 30,)	~ /		
1. Smilar rotunde tolia	\mathcal{O}	FAC	
2. Vitis retunditula	37	FAC	
3.			
4			
F			
5	15		Hydrophytic A /
	= Total Cov		Vegetation Present? Yes No
50% of total cover: _5_	20% of total cover		169 <u>V \</u> 10
Remarks: (If observed, list morphological adaptations belo	w).		

JUIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Indicators.) Depth	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Type Loc Texture Remarks D-3 Lo Y(8 3/2 Seatures) Texture Remarks D-3 Lo Y(8 3/2 Seatures) Texture Remarks D-3 Lo Y(8 3/2 Seatures) Texture Remarks D-3 Lo Y(8 3/2 Seatures) Texture Remarks D-4 Location: PL=Pore Lining, M=Matrix. Hidro Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Histic Epipedon (A2) Coation: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ': Indicators for Problematic Hydric Soils (F19) (LRR O) Reduced Vertic (F13) (LRR O) Indicators for Problematic Hydric Soils (F20) Reduced Vertic (F13) (LRR O, P, T) Indicators for Problematic Hydric Soils (F20) (MLRA 150) Reduced Vertic (F13) (LRR O, P, T) Indicators for Problematic Hydric Soils (F20) (MLRA 150) Indicators for Problematic Hydric Soils (F20) (MLRA 150) Indicators for Problematic Hydric Soils (F20) (MLRA 150) Indicators for Problematic Hydric Soils (F20) (MLRA 150) Indicators for Problematic
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Depth Matrix Redox Features	Depth (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks Color (moist) % Type¹ Loc² Texture Remarks Color (moist) % Type¹ Loc² Color (Apolic
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Thick Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Thick Dark Surface (A3) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Coastion: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Fill* (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1 ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 1 Histosol (A1) 1 Histosol (A2) 1 Histosol (A3) 1 Hydrogen Sulfide (A4) 1 Stratified Layers (A5) 1 Organic Bodies (A6) (LRR P, T, U) 2 cm Muck (A10) (LRR Q) 3 tratified Layers (A5) 1 cm Muck (A10) (LRR P, T, U) 2 cm Muck (A10) (LRR Q) 3 reduced Vertic (F18) (outside MLRA 150A, EP) 4 nomalous Bright Loamy Soils (F20) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR Q, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) Wetland Nuch (A10) (LRR Q, S) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. 5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 1
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Histosol (A1)	ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (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) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Polyvalue Below Surface (S9) (LRR S, T, U) Poly lead of Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O) Reduced Vertic (F18) (MLRA 150A, 150B) Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O, P) Reduced Vertic (F18) (MLRA 150A, 150B) Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O, P) Reduced Vertic (F18) (MLRA 151) Polyvalue Below Surface (S1) (LRR O, P, T) Polyvalue Below Surface (S1) (LRR O, P, T) Polyvalue Below Surface (S1) (LRR O, P, T) Polyvalue Below Surface (S1) (LRR O, P, T) Polyvalue Below Surface (S1) (LRR O, P, T) Polyvalue Below Surface (S1) (LRR O, P, T, U) Polymatic Hydric Soils Reduced Vertic (F18) (MLRA 151) Polymatic Hydric Soils Reduced Vertic (F18) (MLRA 150A, 150B)
Histosol (A1)	Histosol (A1)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (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 (S6) Dark Surface (S7) (LRR P, S, T, U) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR P, S, T) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F7) Redox Depressions (F8) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Delow 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) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Carls (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F7) Redox Depressions (F8) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (LRR O, F) Meduced Vertic (F18) (MLRA 151) Thinck Dark Surface (A11) Thick Dark Surface (A12) Umbric Surface (F13) (LRR O, P, T) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) 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) Stripped Matrix (S6) Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O, E) Loamy Mucky Mineral (F1) (LRR O, E) Loamy Mucky Mineral (F1) (LRR P, T, U) Depleted Matrix (F3) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U)	Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 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) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR P, S, T) Depleted Matrix (F3) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (outside MLRA 150A, Educed Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (LRR O, N, T) Reduced Vertic (F18) (MLRA 150A, 150B)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O, S) Depleted Matrix (F2) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 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) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Loamy Mucky Mineral (F1) (LRR O, S) Reduced Vertic (F18) (outside MLRA 150A, E Piedmont Floodplain Soils (F19) (LRR P, S, T Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stem Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dorric (F11) (MLRA 151) 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) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stem Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Organic Bodies (A6) (LRR P, T, U) Seedox Dark Surface (F6) Sem Mucky Mineral (A7) (LRR P, T, U) 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) Stripped Matrix (S6) Dark Surface (S7) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Organic Bodies (A6) (LRR P, T, U) Seedox Dark Surface (F6) Com Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Com Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Dark Surface (TF12) Other (Explain in Remarks) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Antomiators Strict (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
5 cm Mucky Mineral (A7) (LRR P, T, U) 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) Stripped Matrix (S6) Dark Surface (S7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) New Hand Naterial (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) New Hand Naterial (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) New Hand Naterial (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Incom-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)	5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Marl (F10) (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 Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (F12) Other (Explain in Remarks) Very Shallow Dark Surface (F12) Other (Explain in Remarks) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
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) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	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) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B)
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) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	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) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic.
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) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) 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) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Delta Ochric (F17) (MLRA 151) Delta Ochric (F17) (MLRA 150A, 150B) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Delta Ochric (F18) (MLRA 150A, 150B) unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)	
Dark Surface (S7) (LRR P, S, T, U)	
add Alice Long (67) (Editor), (7)	
estrictive Layer (it observed):	Restrictive Layer (if observed):
Type:	Type:
Depth (inches): No No	Depth (inches): Hydric Soil Present? Ves No
	lemarks:
No hydric Soil present	No hydric Soil present

WNAGO11_U



Upland data point *WNAG011_U* facing east



Upland data point *WNAG011_U* facing south

WNAG011 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FOR	M – Atlantic and Gulf Coastal Plain Region
Project/Site SERP City/C	County NASH Sampling Date 8-13-14
Applicant/Owner Cominion	State: NC Sampling Point WAHO
Investigator(s) DOUEST Section	on, Township, Range
Landform (hillslope terrace etc.) Baltom lyon Local	relief (concave, convex, none) 650, carel Slope (%):
Soil Map Unit Name Tornotley	NWI classification P&M
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation Soil or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology naturally problem.	(
SUMMARY OF FINDINGS - Attach site map showing san	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Fauna (B15) (LRI Oxidized Rhizospheres at Oxidized Rhizospher	Sparsely Vegetated Concave Surface (B8) R U) C1) Moss Trim Lines (B16) Blong Living Roots (C3) Crayfish Burrows (C8) I Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Field Observations:	
Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, present)	Wetland Hydrology Present? Yes No
Remarks	ogy present

WNAHO30e-W

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

Trop Stratum (Dist size	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1,		That Are OBL, FACW, or FAC (A)
2		
2		Total Number of Dominant
3.		Species Across All Strata: (B)
4		
5 TO		Percent of Dominant Species //)
		That Are OBL, FACW, or FAC. (A/B)
) A 1 C		
1.		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
		OBL species x 1 =
	= Total Cover	
50% of total cover.	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
		FACU species x 4 =
1		1
2.		
3.		Column Totals. (A) (B)
4 27		
		Prevalence Index = B/A =
5.		Hydrophytic Vegetation Indicators:
6		
7		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
	= Total Cover	
E09/ a64-4-1		Problematic Hydrophytic Vegetation (Explain)
	20% of total cover:	
Herb Stratum (Plot size	A	¹Indicators of hydric soil and wetland hydrology must
1. Bochmenz evlindaza		be present, unless disturbed or problematic.
2. Juncies effusus	OBL OBL	·
		Definitions of Four Vegetation Strata:
3. Impations Capensis		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Mirrostegium Vimina	7 \ FAC	more in diameter at breast height (DBH), regardless of
5. Murdonia Keisak	7 OBL	height,
	- - - - - - - - - -	71-1g/10
6. Joldago, gigantece	_5	Sapling/Shrub - Woody plants, excluding vines, less
7. Carex /worda	10	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Polygenum Nydropiper		
		Herb – All herbaceous (non-woody) plants, regardless
9.		of size, and woody plants less than 3.28 ft tall.
10		NA/
11.		Woody vine – All woody vines greater than 3.28 ft in
		height.
12		
		_
	Total Cover	
· ~	_ ^	
50% of total cover: <u></u>	/OD = Total Cover 20% of total cover:	
· ~	_ ^	
50% of total cover: <u></u>	_ ^	
50% of total cover: 50% woody Vine Stratum (Plot size:)	_ ^	
50% of total cover: 50% woody Vine Stratum (Plot size:)	_ ^	
50% of total cover: 50% woody Vine Stratum (Plot size:)	_ ^	
50% of total cover: 50% woody Vine Stratum (Plot size:)	_ ^	
50% of total cover: 50% woody Vine Stratum (Plot size:)	_ ^	Hudrophytia
50% of total cover: 50% woody Vine Stratum (Plot size:)	20% of total cover: ZO	Hydrophytic
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5	20% of total cover:	Vegetation
50% of total cover: 50% woody Vine Stratum (Plot size:)	20% of total cover:	
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation
50% of total cover: 50 Woody Vine Stratum (Plot size:) 1 2 3 4 5 50% of total cover:	20% of total cover: = Total Cover 20% of total cover:	Vegetation

\sim	$\overline{}$	•	
	()		

WNAHO30e Sampling Point ______W

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	,
(inches): Color (moist) %	Color (maist) % Type Loc	Texture Remarks
104RZ/1		
TO TO TOUR PIL		
10-20-104/15/1-		
T 0-0		2
'Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all I	·	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	·
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)	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) Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)	☐ Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Ochric (F11) (MLRA 151)	T) 31-41-4
Coast Prairie Redox (A16) (MLRA 150A	Iron-Manganese Masses (F12) (LRR O, P, ') Umbric Surface (F13) (LRR P, T, U)	· · · · · · ·
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed or problematic.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149	0.4.\
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	· ·
Dark Surface (S7) (LRR P, S, T, U)	/ Widthalous Bright Edaily Solis (1 20) (WEIV)	1497, 1000, 1000)
Restrictive Layer (if observed):		WIN W. W. W. W. W. W. W. W. W. W. W. W. W.
Туре:		
Depth (inches):	- 	Hadda Oali Barranio Var
		Hydric Soil Present? Yes No
Remarks:		
Λ .		()
1 / / / / / /	at Down in topo	GRADHU FROM
MUILLE	pt drop in topo	3, 1, 100
	ent repland	
(20,00	ent leplane	
	/	

wnah030e_w



Wetland data point wnah030e_w facing east



Wetland data point wnah030e_w facing south

WETLAND DETERMINATION DATA	FORM - At	lantic and G	Bulf Coastal P	lain Region
Project/Site: SERP	City/County:	NASH	_	8-13-14 Sampling Date:
Applicant/Owner: Dom In Lon	, onyroddiny, _		State: NC	Sampling Point: WMH1403
Investigator(s): DUEST		nship, Range:		
16./1	-	oncave, convex		Slope (%): 0 ~ 2
Subregion (LRR or MLRA): Lat: 35	°56'15.	904 "Long:	77057 32	2.948 Datum:
Soil Map Unit Name: Temotley		4		ication:
Are climatic / 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 "Norma	al Circumstances"	present? Yes No
Are Vegetation Soil, or Hydrology naturally pr	roblematic?	(If needed,	explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling	point locati	ons, transect	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No No		Sampled Area a Wetland?	Yes	No No
Pof all thee	DerAn	neter	es pre	sent
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)	<u>}</u>	di di dalam na di di dalam na dalam na mangan	Surface Soi	l Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1				egetated Concave Surface (B8)
☐ High Water Table (A2) ☐ Mart Deposits (B1☐ Saturation (A3) ☐ Hydrogen Sulfide			,	atterns (B10)
Water Marks (B1) Oxidized Rhizosph		ing Roots (C3)	Moss Trim	Water Table (C2)
Sediment Deposits (B2) Presence of Redu	•	3 (,	Crayfish Bu	
Drift Deposits (B3)	ction in Tilled S	oils (C6)	Saturation \	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	1 - 7			c Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in F☐ Inundation Visible on Aerial Imagery (B7)	Remarks)		Shallow Aq	
Water-Stained Leaves (B9)			==	moss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No Depth (inches	s):	anny maken		
Water Table Present? Yes No. Depth (inches				
Saturation Present? Yes No Depth (inches (includes capillary fringe)	s) ⁻	Wetland	Hydrology Prese	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	los, previous in	spections), if av	aılable	
Remarks	Providence and a second of the second and a			
1	^			
No hy	Orolo	gy r	212501	

WNAH03 VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: Absolute Dominant Indicator Dominance Test worksheet: Status Number of Dominant Species That Are OBL, FACW, or FAC (A) Total Number of Dominant Species Across All Strata (B) Percent of Dominant Species 0.77 That Are OBL, FACW, or FAC (A/B) Prevalence index worksheet: Total % Cover of: Multiply by: _____ x 1 = ____ OBL species = Total Cover FACW species ___ x 2 = __ 20% of total cover: FAC species x 3 = ____ FACU species ____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: (A) (B) Prevalence index = B/A = Hydrophytic Vegetation Indicators: 6. 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 = Total Cover, Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover-20% of total cover r Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. FA (UDefinitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 6 Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in Total Cover 50% of total cover Z 20% of total cover Hydrophytic = Total Cover Vegetation Present? 50% of total cover 20% of total cover Remarks: (If observed, list morphological adaptations below).

WNAHO30,	
Sampling Point:	

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc ²	:
O-C LOVE LIFE	Texture Remarks
	SANY GAM
5-10 1048-1/3	Sundy losem
10-16+104R5/3	SALLY ODIN
The state of the s	
Type: G=Concentration: D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) T) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. unless disturbed or problematic.
Restrictive Layer (if observed):	
Type	~ /
Depth (inches)Remarks	Hydric Soil Present? Yes No
Do hydric soil p	resent

wnah030_u



Upland data point wnah030_u facing east



Upland data point wnah030_u facing north

wnah030 soils



Wetland/upland soils

WEILA	AND DETERMINATION DA			Plain Region	Lſ
Project/Site SERV	>	City/County:	MASH	Sampling Date:	7
Applicant/OwnerDom	linion	, , , , , , , , , , , , , , , , , , , ,	State:	Sampling Point. DANH	02
Investigator(s):	DWS ST.	Section, Township, F		anne quantità di construente della construente d	
Landform (hillslope, terrace, etc	Botom land			ncave Slope (%):	Mana-Ipici Maladalia
Subregion (LRR or MLRA)		35°56'06.87			
Soil Map Unit Name				suffication: PFO	partings are to
	ons on the site typical for this time	of year? Yes X No	(If no. explain	***************************************	
	or Hydrology signific	/	e "Normal Circumstance	\ /	
	or Hydrology natural		needed, explain any an		*******
				·	
SUMMARY OF FINDING	S - Attach site map show	ving sampling point	locations, transe	cts, important features, etc	C.
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? Remarks	Yes No Yes No No	Is the Sample		No	
HYDROLOGY					
Wetland Hydrology Indicato				dicators (minimum of two required)	
	of one is required; check all that ap			Soil Cracks (B6)	200
Surface Water (A1) High Water Table (A2)	Aquatic Fauna	, ,	م ا	Vegetated Concave Surface (B8)	
Saturation (A3)	Hydrogen Sulf	(B15) (LRR U)	<u> </u>	e Patterns (B10) m Lines (B16)	
Water Marks (B1)		ospheres along Living Ro		son Water Table (C2)	
Sediment Deposits (B2)		leduced Iron (C4)	` `~/ `	Burrows (C8)	
Drift Deposits (B3)	Recent Iron R	eduction in Tilled Soils (Co	Saturatio	on Visible on Aerial Imagery (C9)	
Algai Mat or Crust (B4)	Thin Muck Sui	rface (C7)	-Geomorp	phic Position (D2)	
Iron Deposits (B5)	Other (Explain	in Remarks)	· = /	Aquitard (D3)	İ
Inundation Visible on Aeri				utral Test (D5)	
Water-Stained Leaves (B	Э)		<u></u>	ım moss (D8) (LRR T, U)	
Field Observations: Surface Water Present?	Yes No Depth (inc	ches):			
Water Table Present?	Yes No Depth (inc	,			
Saturation Present?			Vetland Hydrology Pre	esent? Yes X No	
(includes capillary fringe)	am gauge, monitoring well, aerial i	nhotos, provious inspectio	ns) if available:		_
Besche Mesoraea Bata (site	am gauge, monitoring well, aemai j	priotos, previous inspectio	iis), ii available.		
Remarks:	***************************************		\		-
	$II \circ I$				
	Hylmlogy,	present	7		

VEGETATION	(Four Strata	1 - Use	scientific	names of	plants

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size,)	% Cover Species? Status	(1)
1. Hear rubrum	40 V FAC	Number of Dominant Species
		That Are OBL, FACW, or FAC: (A)
2 Papus tooka	30 V FAC	Total Number of Dominant
3 Ilox opacu	10 FAC	Species Across All Strata (B)
1 Deercus michaelxi	10 FACU	
The state of the s		Percent of Dominant Species (F)()
2		That Are OBL, FACW, or FAC. (A/B)
6		
7		Prevalence Index worksheet:
		Total % Cover of Multiply by
8	7.5	
	= Total Cover	
50% of total cover	20% of total cover: (8	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	/	FAC species x 3 =
	20 1/ FAC	FACU species x 4 =
1 Logralium	12 - 1/1	
2 Overces micheuxi	10 FACW	/ UPL species x 5 =
3 Tley opaca	15 1/ CAL	Column Totals (A) (B)
	75	
4 Carpinus carofiniana	D V FAC	Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		
0		2 - Dominance Test is >50%
	~	3 - Prevalence Index is ≤3.0
9 -	= Total Cover	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: ろち	20% of total cover	
Herb Stratum (Plot size)	•	
	(0 1), FIAC	/ Indicators of hydric soil and wetland hydrology must
1 Dollmesta Cylinthica		The production of the producti
2 Amendinaria gignantea	10 V FACIN	✓ Definitions of Four Vegetation Strata:
3 Ariscema triphy//1/m	10 1/ FACIL	
		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
_		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	and called the find of the control of the property of the control	g
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.		
	= Total Cover	
50% of total cover: $1/5$	20% of total cover	
	20 % of total cover	
Woody Vine Stratum (Plot sizer.	28 1 15m/	
1 Daylax Potenty Folice	30 V PAC	
2. Vitis rotunditalia	10 V FAC	
3		
4		
5.		Hydrophytic
	40 = Total Cover S/	Vegetation
50% of total cover 22		Present? Yes No
	EU 70 OT TOTAL GOVE	
Remarks. (If observed, list morphological adaptations belo	ow).	
		•

Profile Description: (Describe to	the depth need	ed to document t	he indicator	or confirm	the absence of indicators.)	
Depth <u>Matrix</u>		Redox Feat	tures			
(inches) Color (moist)			Type ¹	<u>Loc²</u>	Texture Remarks	
0-8 104R 3/1					SANDy COMM	
8-16 (04R5/2	160	04/1 5	< (M	561	
		100				
						,
A 100 100 100 100 100 100 100 100 100 10						
The state of the s					3.	
Type C=Concentration D=Depte Hydric Soil Indicators: (Applica				rains.	Location PL=Pore Lining, M=Matrix	CONTRACTOR SERVICES AND AND ADDRESS OF A PARTY OF THE PAR
Histosol (A1)	_		·		Indicators for Problematic Hydric S	ous":
Histic Epipedon (A2)		'olyvalue Below Si hin Dark Surface			· · · · · · · · · · · · · · · · · · ·	
Black Histic (A3)		oamy Mucky Mine			2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside N	AI DA 150A D)
Hydrogen Sulfide (A4)		oamy Gleyed Mat		i(0)	Piedmont Floodplain Soils (F19)	
Stratified Layers (A5)	=	epleted Matrix (F:			Anomalous Bright Loamy Soils (F	
Organic Bodies (A6) (LRR P,	T, U) 🗍 F	edox Dark Surfac	e (F6)		(MLRA 153B)	,
5 cm Mucky Mineral (A7) (LRI	R P, T, U) 🔲 🛭	epleted Dark Surf	face (F7)		Red Parent Material (TF2)	ĺ
Muck Presence (A8) (LRR U)	F	edox Depression:	s (F8)		Very Shallow Dark Surface (TF1)	2)
1 cm Muck (A9) (LRR P, T)	=	Marl (F10) (LRR U			Other (Explain in Remarks)	
Depleted Below Dark Surface	=	epleted Ochric (F				A CONTRACTOR OF THE CONTRACTOR
Thick Dark Surface (A12)		on-Manganese M		•	, , , , ,	1
Coast Prairie Redox (A16) (M	· 1	Imbric Surface (F1			wetland hydrology must be pr	1
Sandy Mucky Mineral (S1) (LF	· · · · ·	Pelta Ochric (F17)			unless disturbed or problemat	ic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		Reduced Vertic (F1			24)	
Stripped Matrix (S6)		iedmont Floodpla		•	9A) A 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S,		mornalous bright t	_oamy Solis	(rzu) (IVILKA	4 149A, 153C, 153D)	
Restrictive Layer (if observed):	1, 0,					
Туре						
Depth (inches)					Hydric Soil Present? Yes	No
Remarks		***************************************			nyuric Son Present? Tes / C	NO
Remarks						
		//	1	•		
		Hyd	1576	-	V Nasa ett	
		l vixa	N C		- Jolesen	
		\mathcal{O}			•	
						a de la constanta de la consta
						The state of the s

wnah029f_w



Wetland data point wnah029f_w facing east



Wetland data point wnah029f_w facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: SERP Cit	y/County: Nas H Sampling Date: 8/13/14
Applicant/Owner: VOM INION	State: NC Sampling Point: WNAI+0 29
Investigator(s): DNWEST Se	oction Township Range: 1)A
Landform (hillslope, terrace, etc.): HILLS COPE Lo	cal relief (concave, convex, none): () Slope (%): 2
Subregion (LRR or MLRA): T Lat: 35°56	cal relief (concave, convex, none):
Soil Map Unit Name: 1 cmoffee	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year'	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? YesNo
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) (I	
Saturation (A3) Hydrogen Sulfide Odd	
☐ Water Marks (B1) ☐ Oxidized Rhizosphere ☐ Sediment Deposits (B2) ☐ Presence of Reduced	ss along Living Roots (C3) Dry-Season Water Table (C2) Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction	
Algal Mat or Crust (B4) Thin Muck Surface (C	
Iron Deposits (B5) Other (Explain in Rem	arks) 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:	, 1.0
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): _ Saturation Present? Yes No Depth (inches): _	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks: No hydrology present	

/EGETATION	(Four	Strata	-	Use	scientific	names	of	plants.

WPAHO	27/	_&
Sampling Point		

Tree Stratum (Plot size. 30	Absolute Dominan		Dominance Test worksheet:	e constitue de la constitue de	
1. Pines forda	% Cover Species		Number of Dominant Species		
1. 11065 74686	40 \	FIX.	That Are OBL, FACW, or FAC	(A)	
2. Liquidamber Styraciflus		PAC	Total Number of Dominant	3	
3.		·	Species Across All Strata:	(B)	
4			Percent of Dominant Species	ab many many	
5			That Are OBL, FACW, or FAC	100 (A/B	3)
6.					
7			Prevalence Index worksheet		
8			Total % Cover of:		
	<u>50</u> = Total Co	ver	OBL species	x 1 =	
50% of total cover 25	20% of total cove	r 10	FACW species	x 2 =	
Sapling/Shrub Stratum (Plot size 30)	20 % 07 10161 20 02		FAC species	x 3 =	
1 (a-pinus cardinjana	30	EAC	FACU species	x 4 =	
2 Couldanter Styraciffes		FAV	UPL species	x 5 =	
3 Ilex open		FAL	Column Totals:	(A)(B)	,
		1 1 3			
4 R			Prevalence Index = B/A		
5			Hydrophytic Vegetation India	cators:	
6			1 - Rapid Test for Hydroph		
7.			2 - Dominance Test is >50)%	
8.	11	-	3 - Prevalence Index is ≤3	.0'	
	= Total Co	ver ()	Problematic Hydrophytic V	/egetation¹ (Explain)	
50% of total cover: 22.5	20% of total cove	r:			
Herb Stratum (Plot size: 30)			Indicators of hydric soil and w	etland hydrology must	
1. Anuslinacia significa		FIACIN	be present, unless disturbed of	r problematic.	
2. Michella sipana		FACU	Definitions of Four Vegetation	n Strata:	
3.					
4			Tree – Woody plants, excludin more in diameter at breast heigh		
5			height.	Jill (DDII), regardless of	'
6.					
			Sapling/Shrub - Woody plant than 3 in, DBH and greater tha	s, excluding vines, less	
7.			and o in. Berrana greater tha	11 5.20 it (1 iii) tait.	
8.			Herb - All herbaceous (non-we		,
9			of size, and woody plants less	than 3.28 π tall.	
10			Woody vine All woody vines	greater than 3.28 ft in	
11.			height.		
12.	-,f-	·			
	= Total Co	· C7			
50% of total cover:	_ 20% of total cove	r: <u>0 < 0</u>			
Woody Vine Stratum (Plot size:)	and the second	American			
1. Sprilax potendelia		FAC			Ì
2.					
3					
4.			-		
5			Hydrophytic		ı
) = Total Co	ver .	Vegetation		ı
50% of total cover:			Present? Yes	<u>No</u>	
Remarks: (If observed, list morphological adaptations below		··		<u> </u>	\dashv
	•/-				
Planted pine stand					
8					

^	\sim	1	1	

Specific Specific	Depth .	Matrix			x Feature				
Section PL=Pore Lining M=Matrix MS=Masked Sand Grains PL=Pore Lining M=Matrix Ms=Masked Sand Grains PL=Pore Lining M=Matrix Ms=Masked Sand Grains PL=Pore Lining M=Matrix Ms=Masked Sand Grains PL=Pore Lining M=Masked Sand Grains Loarny Muck (A10) (LRR 0) Pledmost Clark Surface Sand Grains Ms Clark Surface Sand Grains Ms Sand Grains Sand Grai	(inches)	Color (moist)	(Color (moist)	%	Type ¹	Loc ²		Remarks
Histosol (A1)	0-5	1071		71,1				<u> </u>	
Histosol (A1)	5-8	10714/2						96	
Histosol (A1)	a-16t	1046/2						51	
Histosol (A1)	J	45 /	more an elementario anamana an	TO THE E WINDOWS CONTROL OF THE PROPERTY OF TH		THE PARTY OF THE P			
Histosol (A1)				CONTRACTOR STATE OF THE STATE O					TO THE COMMENT OF THE ASSESSMENT OF THE STATE OF THE STAT
Histosol (A1)	****	***************************************							
Histosol (A1)					-				
Histosol (A1)	***************************************	*							
Histosol (A1)	NOTE: A STATE OF STREET, A STATE OF A STATE OF STREET, AND A STATE O								
Histosol (A1) Histo Epipedon (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Histo (A2) Honal Surface (A2) Histo (A12) Histo (A2) Histo (A2) Histo (A2) Honal Surface (A2) Histo (A16) Histo (A2) Honal Surface (A2) Histo (A16) Histo (A2) Histo (A16) Histo (A2) Honal Surface (A2) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A16) Histo (A	Type C=C	oncentration, D=Dep	letion, RM=Rec	luced Matrix, M	S=Maske	d Sand Gra	ains.		
Histic Epipedon (A2) Black Histic (A3)			able to all LRR	ls, unless othe	rwise not	ed.)		Indicators for Pi	roblematic Hydric Soils ³ :
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (A1) (MLRA 150A) Sandy Mucky Mineral (A1) (MLRA 05) Sandy Muck Mineral (A1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Depleted Dark Surface (F1) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Derive (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S4) Dark Surface (S7) Reduced Vertic (F18) (Outside MLRA 150A) M(M.RA 153B) Reduced Vertic (F18) (MLRA 150A) M(M.RA 153B) Red Parent Material (TF2) Wery Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Ochric (F17) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Mark 150A, Peda Matrix (S4) Reduced Vertic (F18) (MLRA 150A) Momalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D)	===		[Polyvalue Be	low Surfa	ice (S8) (L	RR S, T, U		
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Depleted Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Derive (F11) (LRR U) Depleted Derive (F11) (MLRA 151) Thick Dark Surface (A12) Depleted Derive (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No	Histic E	pipedon (A2)	. [ຼີ Thin Dark Sເ	ırface (S9	(LRR S,	T. U)	2 cm Muck (A10) (LRR S)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T. U) Organic Bodies (A6) (LRR P, T. U) Som Mucky Mineral (A7) (LRR P, T. U) Muck Presence (A8) (LRR P, T. U) Depleted Dark Surface (F7) Lone 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 Q, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No	===		Ţ	Loamy Muck	y Mineral	(F1) (LRR	0)	Reduced Ve	rtic (F18) (outside MLRA 150A,B
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Ochnic (F11) (MLRA 151) Thick Dark Surface (A12) Depleted Ochnic (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Presents			Ĺ	≍ ′		(F2)		7	
Scm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Malenal (TF2) Wery Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Deblow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Other (Explain in Remarks) Depleted Deblow Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) 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) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Destrictive Layer (if observed): Type			<u> </u>	=	, ,				, , ,
Muck Presence (A8) (LRR U)				=		•		1 1 '	
1 cm Muck (A9) (LRR P. T)			72	= '					` '
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S). Sandy Mucky Mineral (S1) (LRR 0, S). Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depteted Ochric (F13) (LRR 0, P, T) Iron-Manganese Masses (F12) (LRR 0, P, T) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) wetland hydrology must be present. Unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Remarks Hydric Soil Present? Yes No) [-	-		8)			
Thick Dark Surface (A12)	····		L AAA	=				U Other (Expla	iin in Remarks)
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) Destrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Wetland hydrology must be present. unless disturbed or problematic. MLRA 151) wetland hydrology must be present. unless disturbed or problematic. MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Wetland hydrology must be present. Uniter Sturbed or problematic. Wetland hydrology must be present. Uniter Sturbed or problematic. No MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Wetland hydrology must be present. Uniter Sturbed or problematic. Wetland hydrology must be present. Uniter Sturbed or problematic. No MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Hydric Soil Present? Yes No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No MLRA 149A) Hydric Soil Present? Yes No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) No Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) Piedmont Floodplain Soils (F19) (MLRA 149A) Piedmont Floodplain Soils (F19	= '		e (A11)						
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F 17) (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) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Present) Hydric Soil Indicators Not Present			11 50 450 4	= *				•	, , , ,
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 Depth (Inches) Hydric Soil Present? Yes No Remarks Hydric Soil Indicators not present							, U)		
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Semarks Hydric Soil Indicators not present	==		.KR (0, S) . "[. 4 4 5 0 0 1	unless dis	sturbed or problematic.
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No	=		Ļ	_		•		2.4.	
Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type Depth (Inches) Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No	_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	†	_			•	•	N.
estrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No X remarks Hydric Soil Present? Yes No X				Anomalous d	origini Loa	my Sons (i	-20) (MLR)	4 149A, 153C, 153L	וָכ
Type									
Depth (inches) Hydric Soil Present? Yes No Temarks Hydric Soil Indicators not present		• • •							
Hydrie soil indicators not present	, , , , , , , , , , , , , , , , , , , ,								
Hydric soil indicators not present		ches)					V. W. 48	Hydric Soil Prese	ent? Yes No X
	Remarks		, ,						
	14.	de soil	indice	stock .	~ as L	A . A			
	uye	110 9011	1.,216-			PICSI	ent		
					e				
	**								

wnah029_u



Upland data point wnah029_u facing east



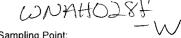
Upland data point wnah029_u facing north

wnah029 soils



Wetland/upland soils

	A PORIM - Atlantic and Guil Coastal Plain Region
Project/Site: SERP	City/County: NASH Sampling Date: 8-13-1 State: NC Sampling Point NASHO
Applicant/Owner: Dominion	State: NC Sampling Point WA HO
Investigator(s): DOWEST	Section, Township, Range:
Landform (hillslope, terrace, etc.): Ro Hom Isne	Local relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat: 35	10 = 1/100 0 / - 1/1 = 1/1 = 1/1 = 1/1 = 1/1
Soil Map Unit Name: Wohadkee	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	
Are Vegetation, Soil, or Hydrology naturally p	. ,
SUMMARY OF FINDINGS - Attach site man showin	ng sampling point locations, transects, important features, etc.
The state of the s	ig sampling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No No	- Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	-
Remarks.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	<u> </u>
	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Red	
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Uther (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 (inchest)	
Water Table Present? Yes No Depth (inche	
	es): Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	
	\wedge
Hydrology P	
1100000000	nesery
	·



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

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?		Number of Dominant Species
1. Hogs rulrum	10		FAC	That Are OBL, FACW, or FAC:(A)
2. Dalix Rayodinana	10		084	Total Number of Dominant
3. Matanys occidentaly	20	_/_	<u>FACU</u>	Species Across All Strata: (B)
4. Keny taoda	30	\mathcal{L}	FAC	
5. Limidombor Sturachlua	60		FAI	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6.				That Are OBE, I ACVV, OIT AC (A/B)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	100	= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	2 20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)	15	/	F 11	FACU species x 4 =
1. Missa sylvatica			FAC	UPL species x 5 =
	2			Column Totals: (A) (B)
3. Mafænus occidentalis	10		THOW	Column rotals (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
	_50	= Total Cov	/er , $ riangle$	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 25	20% of	total cover	: 10	1 Tublematic Hydrophytic Vegetation (Explain)
The frequency (D) I is				Aladiantan of trodein and conductional froductions
1. U. trs rotunela folka		1/	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			1,3	Definitions of Four Vegetation Strata:
				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				NACE describes All considers in a process the second secon
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				, norgan
	5	= Total Cov	/er	
50% of total cover: 2.4	20% 0	total cover	,	
Woody Vine Stratum (Plot size:)	207001	total cover	·	
1 Sand Can K Control Con Local Control	20		FIAC	
2 Holis Confuel Clinical	3	-/-	FAC	
2. VIHS POPULOIFOLIA			VAC	
3.	******			
4				
5.				Hydrophytic \ /
1 %		= Total Cov	ør ∠	Vegetation No.
50% of total cover: <u>1</u> <u>2</u>	20% of	ftotal cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).			

SOIL

WNAHOZ8F_W Sampling Point:____

Profile Description: (Describe to the depth needed to document the indicator or confile	rm the absence of indicators.)
Depth Matrix Redox Features	_
(inches) Color (moist) % Color (moist) % Type Loc2	Texture Remarks
0.6 104R 4/2	10AM
6-16+ 104R5/7 104R4/6 5 C M	SCL
Type C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	21 postions DI more Linion Manhaeris
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solls ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T,	_
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	2 cm Muck (A10) (LRR S)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2)	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted Matrix (F3)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) Redox Depressions (F8)	└── Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0, 1)	D T) 3(adia-kasa of budaantudia usantudia ad
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, I Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	P, T) Indicators of hydrophytic vegetation and 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, 150I	•
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA	,
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (ML	RA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Туре:	4
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
Hydric soil preser	
Violet 1	4

wnah028f_w



Wetland data point wnah028f_w facing east



Wetland data point wnah028f_w facing south

WEILAND DEIERN	INATION DATA FOR	M – Atlantic and G	uif Coastai Pia	In Region $8 - 15 - 1$
Project/Site SERP	City/C	county NASH	+	Sampling Date:
Applicant/Owner: Dominion			State: NC	Sampling Point WNAHOZ
Investigator(s) DDWS5T	Sectif	n Township Range	had All Particularies (a.g.	
Landform (hillslope, terrace, etc.):	spo /er/sed agocat	relief (concave, convex,	none):	Slope (%): ∆ - 2
Subregion (LRR or MLRA):	Lat: \$5505	5'38.758 ong:	77°57'5	Slope (%): <u>0 - 2</u> 4.856 "Datum:
Soil Map Unit Name: Tomotles			NWI classifica	
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	\		·
Are Vegetation Soil, or Hydrolog		**		resent? Yes No
Are Vegetation Soil, or Hydrolog			explain any answer	
SUMMARY OF FINDINGS – Attach s				
- Attach s	The map showing sair	iping point location	ons, transects,	
Hydric Soil Present? Yes	No No No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks Not all	three scerce	meters		
HYDROLOGY			<u> </u>	
Wetland Hydrology Indicators:	THE THE THE THE THE THE THE THE THE THE		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required	, check all that apply)		Surface Soil C	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF	•	Drainage Patt	·
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Moss Trim Lir	
Sediment Deposits (B2)	Oxidized Rhizospheres a Presence of Reduced Iron		Crayfish Burro	Vater Table (C2)
Drift Deposits (B3)	Recent Iron Reduction in			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic F	Position (D2)
Iron Deposits (B5)	Other (Explain in Remark	(\$)	Shallow Aquit	ard (D3)
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:	A Dooth (Jackson)			
Surface Water Present? Yes No Water Table Present? Yes No				
Saturation Present? Yes No	\ \'	Wetland	Hydrology Present	? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	vious inspections), if av	allable:	
Remarks: \			\ \	
No hydr	ology F	nesent)	
	(
I.				ì

WNAXDIS_-

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

/EGETATION (Four Strata) – Use scientific nar	nes of pla	ants.		Sampling Point:	
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?		_	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	A)
2	/			()	' '/
				Total Number of Dominant	
3				Species Across All Strata (I	B)
4				Percent of Dominant Species	
5		***************************************			A/B)
6					
7				Prevalence Index worksheet:	
				Total % Cover of Multiply by	
8				OBL species x 1 =	
2		= Total Cov		FACW species x 2 =	
50% of total cover;	20% of	total cover:			
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =	
1				FACU species x 4 =	
2				UPL species x 5 =	
3				Column Totals: (A)	(B)
1 3/1)					
				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	
		= Total Cov		l =	
EON/ of total account				Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover:	20% 01	total cover			
Herb Stratum (Plot size:)	1 ~		·	¹ Indicators of hydric soil and wetland hydrology mu	st
1 Digitaria sanguinalis	42		FRU	be present, unless disturbed or problematic.	
2 Echnich Jon crus-gali	10		FACIN	Definitions of Four Vegetation Strata:	
3 Amaran Thus spinosos	5		FACU	Tree Woody plants avaluding was 2 in /7.6 cm	2) 04
" (Objecting Gossipium hirsuita	in 70		FACU	Tree – Woody plants, excluding vines 3 in, (7.6 cm more in diameter at breast height (DBH), regardles	
· ·				height.	
•					
6				Sapling/Shrub – Woody plants, excluding vines, le than 3 in, DBH and greater than 3.28 ft (1 m) tall.	288
				than 3 m. Dorrand greater than 3.20 m (1 m) tail.	
8				Herb – All herbaceous (non-woody) plants, regardle	ess
9				of size, and woody plants less than 3.28 ft tall.	
10.				Mondy vine All woody vines greater than 2.29 ft	in
11				Woody vine – All woody vines greater than 3.28 ft height.	111
12				110.5.1	
	100	1 O -			
· · · · · · · · · · · · · · · · · · ·		= Total Cov	71)		
50% of total cover: _S C	20% of	total cover:	1		
Woody Vine Stratum (Plot size:)					
1					
2					
3		***************************************			
5				Hydrophytic	
		= Total Cov	er	Vegetation	
50% of total cover:	20% of	total cover:		Present? Yes No / \	
Remarks: (If observed, list morphological adaptations below	w).	***************************************			***************************************
~		. 6	\cup		
Margareto Edge	N	. 11	- ti	nd)	
THE GOOD CALLE	4	LONO	N. 10	Northern State &	
	\bigcirc				
					

WNAHOZ8
Sampling Point: _____

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture	Remarks	
0-8	104R 4/	3							
8-16+	104R 5/2								-
0 .0	10/10 0/	·							
			······						
The second section of the second seco	* TOTAL CONTRACTOR OF CONTRACT DESIGNATION AND CONTRACTOR OPEN			-			-		
Processor Statement Statement and American				***************************************				******	
***************************************		-							
'Type C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix, M	S=M a sked	Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless other	rwise note	ed.)			for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Be			RR S. T. U)		fluck (A9) (LRR O)	
Histor Er	opedon (A2)		Thin Dark St					fuck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck				1 1	ed Vertic (F18) (outside MLRA 150A	.B)
Hydroge	n Sulfide (A4)		Loamy Gleye			,		ont Floodplain Soils (F19) (LRR P. S.	
Stratified	1 Layers (A5)		Depleted Ma	trix (F3)			Anoma	lous Bright Loamy Soils (F20)	ĺ
	Bodies (A6) (LRR P		Redox Dark	Surface (F	6)			RA 153B)	
	icky Mineral (A7) (LF		Depleted Da	rk Surface	(F.7)		Red Pa	arent Material (TF2)	
Muck Pr	esence (A8) (LRR U)	Redax Depre	essions (F8	3)		Ų Very S	hallow Dark Surface (TF12)	
	ick (A9) (LRR P, T)		Marl (F10) (L	-			Other (Explain in Remarks)	
_	Below Dark Surfac	e (A11)	Depleted Oc		•	•	7		
	ark Surface (A12)		Iron-Mangan			, ,	•	ators of hydrophytic vegetation and	Ì
	rairie Redox (A16) (M		Umbric Surfa			, U)		land hydrology must be present.	
	fucky Mineral (S1) (L	RR O, S)	Delta Ochric				unle	ess disturbed or problematic	
	Bleyed Matrix (S4) Redox (S5)		Reduced Ver						
· ·	Matrix (S6)		Piedmont Flo				•	4520)	
	rface (S7) (LRR P, S	: T 311	Anomaious E	sright Loan	ny Solis (i	-20) (MLRA	149A, 153C,	, 1530)	
	_ayer (if observed):	***************************************							-
								. ,	
						1			
THE COLUMN TWO IS NOT THE PARTY OF THE PARTY OF THE PARTY.	ches)						Hydric Soil	Present? Yes No]
Remarks.									
								_	
			A 1 -		\bigcirc	0~	\sim		
			NO	herd	Lac	- 50	U P	resent	
			·			_	\		
									4

wnah028_u



Upland data point wnah028_u facing east



Upland data point wnah028_u facing north

wnah028 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Proiect/Site: City/County: Sampling Date: Applicant/Owner: Sampling Point: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Dress //bgcal relief (concave, convex, none): 100 Cave Slope (%): 5"29.751"Long: 77"58"01,031" Subregion (LRR or MLRA): Soil Map Unit Name: (A Charles of) NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ ____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Depth (inches): __/💍 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology presen

WNAHOZ7 F. W Sampling Point:____

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

T		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1. Pinus Tree ()	% Cover 2≤	Species?	Status FAC	Number of Dominant Species
2. Liguramber Styracifua	25	$\overline{\mathcal{A}}$	FAC	That Are OBL, FACW, or FAC:(A)
3. Aler vulnem	23		FAC	Total Number of Dominant Species Across All Strata: (B)
4. Nyssa sylvatica 5			FAC_	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
8.				Total % Cover of:Multiply by:
0.	90	= Total Cov		OBL species x 1 =
50% of total cover. 45				FACW species x 2 =
Sapling/Shrub Stratum (Plot size,)	20 % 01	total cover	' -	FAC species x 3 =
1 1 1 1	15	1/	FLAV	FACU species x 4 =
2 Liquidombros Soyracitus	70		EAL	UPL species x 5 =
3 I lex opera	1		FAV	Column Totals: (A) (B)
4		******		December of Bulletin
5				Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
6				r-n
ī				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0
	1/0	= Total Cov	er	Problematic Hydrophytic Vegetation (Explain)
50% of total cover $2\mathcal{E}$	20% of	total cover	8	Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size:),			/	Indicators of hydric soil and wetland hydrology must
1. Anus Dinario Giggenter	15	$\overline{}$	EACW	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
3	4.4.4.			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	15	***************************************		
7000		= Total Cov	er \gtrsim	
50% of total cover: <u>1.5</u>	20% of	total cover:		
Woody Vine Stratum (Plot size:	UA		FAC	
music ropaniona				
2				
3				
4,	***************************************			
	475	 = Total Cov		Hydrophytic Vegetation
50% of total cover:		total cover:	757	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
,	,•			

WMAHOZ7F_W Sampling Point:_____

1	somption: (Bosonbe to ti	io dopaii noodod to doca	ment the marcator of	ir comminm the	e absence of indicators.)	
Depth	Matrix	Redo	ox Features			
(inches)		% Color (moist)	<u>% Type¹</u>	Loc ²	Texture	Remarks
0-9	104R3/1 _				Stor Oth	
17-16	+ 104R 5/2	104R5T/8	5 (M	3CL	
		- 2134	- — — -			
					<u> </u>	
¹Type: C=0	Concentration, D=Depletion	n, RM=Reduced Matrix, M	S=Masked Sand Grai		² Location: PL=Pore Lining	g, M=Matrix.
Hydric Soi	I Indicators: (Applicable	to all LRRs, unless othe	rwise noted.)		Indicators for Problemat	ic Hydric Soils³:
Histoso		☐ Polyvalue Be	elow Surface (S8) (LR	RR S, T, U)	1 cm Muck (A9) (LRR	O)
	Epipedon (A2)		urface (S9) (LRR S, T,		2 cm Muck (A10) (LR	R S)
==	Histic (A3)	Loamy Muck	ky Mineral (F1) (LRR (0)		(outside MLRA 150A,B)
1 = ' '	jen Sulfide (A4)	Loamy Gley	ed Matrix (F2)		Piedmont Floodplain S	Soils (F19) (LRR P, S, T)
1 ==	ed Layers (A5)	Depleted Ma		•	L Anomalous Bright Loa	ımy Soils (F20)
	c Bodies (A6) (LRR P, T, U		Surface (F6)		(MLRA 153B)	
5 cm N	fucky Mineral (A7) (LRR P	para, produce a construction of the constructi	ırk Surface (F7)		Red Parent Material (
	Presence (A8) (LRR U)	Redox Depre	, ,		Very Shallow Dark Su	• •
	luck (A9) (LRR P, T) ed Below Dark Surface (A1	Mari (F10) (I		٠,	Other (Explain in Rem	iarks)
= '	Park Surface (A12)	, =	chric (F11) (MLRA 151 nese Masses (F12) (Ll	,	3 Indiantary of huden	
	Prairie Redox (A16) (MLR /		ace (F13) (LRR P, T, U		Indicators of hydrop wetland hydrology	· ·
	Mucky Mineral (S1) (LRR	· —	: (F17) (MLRA 151)	0)	unless disturbed or	•
1 ==	Gleyed Matrix (S4)	· · · 	rtic (F18) (MLRA 150)	A 150B)	uniess disturbed of	problematic.
. == .	Redox (S5)		oodplain Soils (F19) (I		1	
	ed Matrix (S6)		Bright Loamy Soils (F2			
	urface (S7) (LRR P, S, T,	14)		20, (1074, 1000, 1000,	
, , , , ,	undoc (O) / LINK F, O, I,	0)				
	Layer (if observed):	U)				
Restrictive		U)				
Restrictive	Layer (if observed):				lydria Sail Bragant? V	ne X No
Restrictive Type: Depth (ii				Н	lydric Soil Present? Ye	es No
Restrictive	Layer (if observed):	U)		Н	lydric Soil Present? Ye	es No
Restrictive Type: Depth (ii	Layer (if observed):			н	lydric Soil Present? Ye	es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1				os No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	0,47> 5.4			es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			os No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			os
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Oriz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Oriz Se			os No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Oriz Se			os No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			es No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			os No
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Driz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Oriz Se			esNo
Restrictive Type: Depth (ii	Layer (if observed):	. 1	Oriz Se			os No

wnah027f_w



Wetland data point wnah027f_w facing east



Wetland data point wnah027f_w facing south

WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
	City/County: NASH Sampling Date: 3 11
Applicant/Owner: Donimits	State: Sampling Point:
Investigator(s): DDWEST.	
Landform (hillslope, terrace, etc.): 1+1 / Collect And IN	Section, Township, Range:
Candiom (missiope, terrace, etc.):	Accal relief (concave, convex, none): Slope (%): 0 - 2 - 55 ' 30, 408 "Long: 77 '58 ' 00, 803" Datum:
Subregion (LRR or MLRA): Cat:	55 30,708 Long: // 58 00.605 Datum:
Soil Map Unit Name: 11 Haussta 2-6% s	, ,
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? YesNo
Remarks: Uplandorea 15 ag field	D./Soyberons
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (B	
High Water Table (A2) Saturation (A3) Marl Deposits (B1 Hydrogen Sulfide	
	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	s):
Water Table Present? Yes No Depth (inche	s):
(includes capillary fringe)	S): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
No hyd	rology present

WNAHOZ	7	J
Sampling Point:		-

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
2		
		Total Number of Dominant
		Species Across All Strata: (B)
* - (1) 		Percent of Dominant Species
5.		That Are OBL, FACW, or FAC: (A/B)
6.	·	
7		Prevalence Index worksheet:
8.		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
50% of total cover:	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 % of total cover.	FAC species x 3 =
		FACU species x 4 =
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		UPL species x 5 =
2.		Į į
3.		Column Totals: (A) (B)
4.		Prevalence Index = B/A =
5.		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		l r
8.		2 - Dominance Test is >50%
U		3 - Prevalence Index is ≤3.01
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:	(2)	¹ Indicators of hydric soil and wetland hydrology must
1. Ambrosia cut emisitalica	10 1 +ACU	be present, unless disturbed or problematic.
2. Digitaria sangunalis	30 _ FACU	Definitions of Four Vegetation Strata:
3 Echnichlon Cris-Gabi	5 FACW	
4. Eurosoonem capillitolium	ID / FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Galicine max	40 J NI	height.
6. Xantuun stromcerium	15 FAC	
		Sapling/Shrub – Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		Herb – All herbaceous (non-woody) plants, regardless
9		of size, and woody plants less than 3.28 ft tall.
10		Woody vine - All woody vines greater than 3.28 ft in
11.		height.
12		
- 0	100 = Total Cover	
50% of total cover: SO	20% of total cover:	
Woody Vine Stratum (Plot size:)		
1		
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).	
80 N 1 0 0		
Edge of saybean livels) }	

SOIL

WNAHO27 -J
Sampling Point: _____

Depth		D = d = E		
(inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture	Remarks
クーフ	107R311			, 35.1101130
7 - /^	104R4/3			
7 0	10110 115			
> 10	104K 4/2			
ume (p.)				
Type: C=Co	oncentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=	Pore Lining, M=Matrix.
lydric Soil I	ndicators: (Applicable to all	LRRs, unless otherwise noted.)		Problematic Hydric Soils ³ :
Histosol	(A1)	Polyvalue Below Surface (S8) (LRR S, T, L	J) 🔲 1 cm Muck	(A9) (LRR O)
Histic Ep	ipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)	F-13	(A10) (LRR S)
Black Hi	• •	Loamy Mucky Mineral (F1) (LRR O)	Reduced V	ertic (F18) (outside MLRA 150A,B)
= '	n Sulfide (A4)	Loamy Gleyed Matrix (F2)		loodplain Soils (F19) (LRR P, S, T)
THE REAL PROPERTY.	Layers (A5)	Depleted Matrix (F3)		Bright Loamy Soils (F20)
	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 1	·
	cky Mineral (A7) (LRR P, T, U) esence (A8) (LRR U)	promise the second seco		Material (TF2)
	ck (A9) (LRR P, T)	Redox Depressions (F8) Marl (F10) (LRR U)		ow Dark Surface (TF12) lain in Remarks)
_	Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	Other (Exp	iain in Remarks)
	rk Surface (A12)	☐ Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators	s of hydrophytic vegetation and
	airie Redox (A16) (MLRA 150)	A) Umbric Surface (F13) (LRR P, T, U)		hydrology must be present,
	lucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)		listurbed or problematic.
☐ Sandy G	leyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)		·
_	edox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14		
	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C, 153	SD)
Dark Sur	face (S7) (LRR P, S, T, U)			
	.ayer (if observed):			A-10-10-10-10-10-10-10-10-10-10-10-10-10-
Туре:				V
Type: Depth (inc	.ayer (if observed): :hes):		Hydric Soil Pres	sent? Yes No X
Type: Depth (inc			Hydric Soil Pres	sent? Yes No
Туре:				,
Type: Depth (inc		= 100 herd		,
Type: Depth (inc		= No hyd		,
Type: Depth (inc		= No hyd		sent? YesNo_X
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Type: Depth (inc		- No hyd		,
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Type: Depth (inc		No hyd		,

wnah027_u



Upland data point wnah027_u facing east



Upland data point wnah027_u facing north

wnah027 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FOR	M – Atlantic and Gulf Coastal Plain Region
Project/Site: SERP City/C	County: NASH Sampling Date: Sampling Point: WNAHO2
Applicant/Owner: Dominion	State: NC Sampling Point WNAHO2
	on, Township, Range:
	relief (concave, convex, none): (Dhaw Slope (%):
Subregion (LRR or MLRA): Lat: 35 ° SS	'08.781 Long: 77°58'21.983" Datum:
Soil Map Unit Name: Wehadkee	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year?	res No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
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) Saturation (A3) Marl Deposits (B15) (LR) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Water Marks (B1) — Aydrogen Sunide Cook	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
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: Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	T&"
Saturation Present? Yes No Depth (inches):	Ut Tace Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	\bigcap
Hydrology M	2 Sen T

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

WNAHOZGF-W Sampling Point:____

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species'		
1. Acer represent	(1)	1/	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Lirodon dron tulinitora	7 0			That Are OBL, FACW, or FAC: (A)
	40	-	FACU	Total Number of Dominant
3. Magnolia Virginiana	10		FACW	Species Across All Strata: (B)
4. Llex oraca	10		FAC.	
5. Fraxinus pensylvanica	70	1/	EAC	Percent of Dominant Species
, ,			FRICK	That Are OBL, FACW, or FAC: (A/B)
6		***************************************		
7.	****			Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	100	= Total Co		OBL species x 1 =
50% of total cover:	\ <u></u>	- Total Co	ver	FACW species x 2 =
	20% o	f total cove	r: <u> </u>	i i
Sapling/Shrub Stratum (Plot size:)	_	_	_	FAC species x 3 =
1. Her ruboum	20		FAC	FACU species x 4 =
2. Fraxings pensylvanica	10	, <i>L</i> .	2F14(1)	UPL species x 5 =
		\rightarrow /	1 10 6	Column Totals: (A) (B)
3. Magnolia sirginiana	10		FACW	(b)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	40	= Total Co	ver	-
50% of total cover: 2£	200/ 0	f total anyon	8	Problematic Hydrophytic Vegetation¹ (Explain)
	20% 0	i total cove	r:	
Herb Stratum (Plot size:)	110	\ /	FAC	¹ Indicators of hydric soil and wetland hydrology must
1. Microskyma viminoa	70		100	be present, unless disturbed or problematic.
2. Wordwoodin aerealatu	15		BBL	Definitions of Four Vegetation Strata:
3. Atherium felix-finina	78		EATI	/
			7/10/	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Sommeria cylindrica	12_		FACW	more in diameter at breast height (DBH), regardless of
5. Arisaema triphyllim	5		FACW	height.
6				Continuity Management
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in, DBH and greater than 3.28 ft (1 m) tall.
7				than 3 in. Don and greater than 3.20 it (1 in) tail.
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	0			
	<u>BS</u>	= Total Co	ver	
50% of total cover: 12.	5 20% of	f total cover	r: [
Woody Vine Stratum (Plot size: 0 ()		,		
1 5 1/2 6 2 2 4	11		EIAT	
" - Anylox rotenal of 1/a		/	100	
2. Witis to trup VI Tolia	10	\rightarrow	FAC	
3.			, ,	
4				
5.				Hydrophytic
	20	= Total Co	ver ,	Vegetation
50% of total cover:	20% of	f total cover	r:	Present? YesNo
Remarks: (If observed, list morphological adaptations belo				
The state of the s	· · J.			

WNAHOZGF W

SOIL

Sampling Point:	

Depth Mark Goldo (missl) % Tope Loc Toxture Remarks	Profile Des	cription: (Describe	to the depti	needed t	o docum	ent the i	ndicator	or confirm	the absence of		ig i ont.
Type C=Concentration D=Depletion RM=Reduced Matrix MS=Masked Sand Grains Tocation PL=Pore Lining M=Matrix Indicators for Problematic Hydric Soils Total And Soil Indicators (Applicable to all LRRs. unless otherwise noted) Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total And Soil Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soil Present Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Problematic Hydric Soils Total Indicators for Pr	, ,		0/	Calar (, , , , .	- .	_	
Type: C=Concentration: D=Depletion: RM=Reduced Matrix: MS=Masked Sand Grains Hydric Soit Indicators: (Applicable to all LRRs. unless otherwise noted.) Type: C=Concentration: D=Depletion: RM=Reduced Matrix: MS=Masked Sand Grains Hydric Soit Indicators: (Applicable to all LRRs. unless otherwise noted.) Type: C=Concentration: D=Depletion: RM=Reduced Matrix: MS=Masked Sand Grains Hydric Soit Indicators: (Applicable to all LRRs. unless otherwise noted.) Type: C=Concentration: D=Depletion: RM=Reduced Matrix: MS=Masked Sand Grains Indicators for Problematic Hydric Soils Indicators for Problematic Hydric	0-6			COIOI (III	oistj	<u> </u>	туре	Loc		R	emarks
Type CaConcentration DaDepletion RM=Reduced Matrix MS=Masked Sand Grains Location PL=Pore Lining M=Matrix MS=Masked Sand Grains Hydric Soil Indicators (Applicable to all LRRs., unless otherwise ontods Indicators for Problematic Hydric Soils Indicators for Hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic Hydric Soil Present? Yes No Indicators for Hydrophytic Vegetation Annual Hydric Soil Present? Yes No Indicators for Hydric Soils Indicators for Hydrophytic Vegetation Annual Hydrology must be present unless disturbed or problematic Hydric Soil Present? Yes No Indicators for Hydrophytic Vegetation Annual Hydric Soil Present? Yes No Indicators for Hydrophytic Veget	1 - 9	LAMB (1/2		1000	11/11	~~		10.0		i	
Type f'=Concentration DeDepletion RM=Reduced Matrix MS=Masked Sand Grains Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: It should be sufficient to the sufficient of the sufficient sufficient for Problematic Hydric Soils*: It should be sufficient for Hydric Hydric Soils*:	0 1/1	10110 112	to the contract of the contrac			<u></u>			Storely	loum	
Hydric Soil Indicators. (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T,	9-16	101K 5/1		NOMR	416	5		W	SCL		to interest of the title of the children above place produces of the configuration of the con
Hydric Soil Indicators. (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T,					teritory order on the management		***********	1961 1 - 146 166 ;	MINERAL LINE II I MALELLE	to a state that a sale document of the colonographic	PACE AND THE TO THE TAX THE TA
Hydric Soil Indicators. (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T,						V 100 00 1 00 1 00 00 00 00 00 00 00 00 0			WWW.Commission.com	Make the same control of the same and th	of the first and which at a constraint of the co
Hydric Soil Indicators. (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Soils ³ Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T, U) Indicators for Problematic Hydric Foils (HRR P, T,			To the control of the day against the great	· · · · · · · · · · · · · · · · · · ·	The second secon	*******			****************		
Institution Institution	Hydric Soil	Indicators: (Applic	eletion RM=F able to all L	RRs, unle	ss otherw	ise note	ed.)		Indicators fo	or Problematic	Hydric Soils ³ :
Black Histic (A3)	Annual S										,
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Mucky Mineral (A7) (LRR P, T, U) Pepleted Matrix (F3) Depleted Dark Surface (F6) Tom Mucky Mineral (A7) (LRR P, T, U) Pepleted Dark Surface (A8) Depleted Dark Surface (F7) Mart (F10) (LRR U) Depleted Dark Surface (A11) The k Dark Surface (A11) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S5) Dark Surface (S7) Depleted Dark Surface (F10) (MLRA 150A, 150B) Dark Surface (S7) Pedemont Floodplain Soils (F19) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic Reduced Vertic (F18) (MLRA 150A, 150B) Dark Surface (S7) Dark Surface (S7) Clark P, S, T, U) Restrictive Layer (if observed): Type Depth (inches) Hydric Soil Present? Yes No	⊥ ∐ Black H	istic (A3)									
Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Som Muck (A9) (LRR P, T) Depleted Dark Surface (F1) Mart (F10) (LRR U) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Medica (S1) Sandy Medica (S1) Sandy Medica (S1) Sandy Martin (Below (S1) Sandy Martin (Below (S1) Sandy Martin (S4) Sandy Martin (S4) Sandy Martin (S4) Martin (MLRA 151) Martin (S4) Martin (MLRA 151) Martin (MLR	,						F2)				
5 cm Mucky Mineral (A7) (LRR P, T, U)	2000		T 10	/ 		. ,	G.				y Soils (F20)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) The k Dark Surface (A12) Chart Praine Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleved Matrix (S4) Sandy Redox (Sfr Sandy Redox (Sfr Sandy Redox (Sfr Sandy Redox (Sfr Sandy Redox (Sfr Strictive Layer (if observed): Type Depth (inches) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic wetland hydrology must be present unless disturbed or problematic Reduced Vertic (F18) (MLRA 150A) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Remarks Hydric Soil Present? Yes No				7							· · · · · · · · · · · · · · · · · · ·
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Praine Redox (A16) (MERA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleved Matrix (S4) Sandy Redox (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed) Type Depth (inches) Delta Ochric (F11) (MERA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic Wetland hydrology must be present unless disturbed or problematic Method (F17) (MERA 151) Unber Surface (F18) (MERA 150A, 150B) Pledmont Floogplain Soils (F19) (MERA 149A) Anomalous Bright Loamy Soils (F20) (MERA 149A, 153C, 153D) Hydric Soil Present? Yes No Remarks	Muck Pi	resence (A8) (LRR U							1 1		
Tron-Manganese Masses (F 12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic									Other (E)	xplain in Rema	rks)
Creast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F 13) (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 (Sf) Predmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed) Type Depth (inches) Hydric Soil Present? Yes No			e (A11)						- .		
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleved Matrix (S4) Sandy Gleved Matrix (S4) Sandy Gleved Matrix (S4) Sandy Gleved Matrix (S6) Pledmont Floodplain Soils (F 19) (MLRA 149A) Anomalous Bright Loamy Soils (F 20) (MLRA 149A, 153C, 153D) Type Depth (inches) Hydric Soil Present? Yes No			MLRA 150A)								.,
Sandy Gleved Matrix (S4) Sandy Redox (Sfr) Sandy Redox (Sfr) Chopped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed) Type Depth (inches) Reduced Vertic (F18) (MLRA 150A, 150B) Predmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No Remarks				_				,			
Stepped Muro (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed) Type Depth (inches) Remarks Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	Parameter 1							0A, 150B)			
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed) Type Depth (inches) Remarks Hydric Soil Present? Yes No	parace)								•		
Restrictive Layer (if observed) Type Depth (inches) Hydric Soil Present? Yes No			T III	LI Anon	nalous Bri	ght Loan	ny Sods d	(MLRA	A 149A, 153C, 1	5 3D)	
Depth (inches) Hydric Soil Present? Yes No Remarks			, , , 0,								
Depth (inches) Remarks Hydric Soil Present? Yes No	Type										\ /
Remarks	Depth (in								Hydric Soil Pr	resent? Yes	No
Hydoic Soil present										1 A Track State (March of Advance or Colonial	
Hydoic Soil present			1 /								
"your soil present	4			1.0			٠ (\bigcap	
	ı		ν χ	LOC	π	<	So ri	7. (/	V020	1 And I	•
				\bigcirc		wit.					
								v			
	!										
	1										

wnah026f_w



Wetland data point wnah026f_w facing east



Wetland data point wnah026f_w facing south

WEILAND DETERMINATION DATA	、FORM – Atla	antic and G	Gulf Coa	astal Pla	ain Region
Project/Site SERP	City/County:	NASE	H		Sampling Date
Project/Site SERP Applicant/Owner Dominion			State	NC	Sampling Point
Investigator(s) DDWEST.	Section Towns	hip Range	·		
Landform (hillstone terrace etc.) Hill3/02/0	Local relief (cor	cave convey	(none)	Management Assessment	Slove 1%1 / - 2
Investigator(s) Landform (hillslope terrace etc.) Subregion (LRR or MCRA) Soil Map Unit Name Colong of Fine county (1974)	555 09.2	-57 " ong	770	58'21	. 520 Calum
Soil Map Unit Name Grange Fine councy LOAN	7 2-6%	Slomo	NIV	VI classific	ation
Are climatic / hydrologic conditions on the site typical for this time of y					
Are Vegetation Soil or Hydrology significantl					resent? Yes No
Are Vegetation Soil or Hydrology naturally p					rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin			,	•	,
Attach site map showing	g sampling p		ions, tra	ansects	, important features, etc.
Hydrophytic Vegetation Present? Hydro: Soil Present? Wetland Hydrology Present? Remarks	within a	ampled Area Wetland?			No X
Not all three pa	ecemé	lers	Pr	l Se	
HYDROLOGY		Withhall to a reason in the party congression than		***************************************	
Wetland Hydrology Indicators:	****		Second	ary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)	1				Cracks (B6)
Surface Water (A1) Aquatic Fauna (B)	•		☐ Spa	arsely ∨eg	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1			☐ Dra	ainage Pat	terns (B10)
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosol			$\overline{}$	ss Trim Li	1
☐ Water Marks (B1) ☐ Oxidized Rhizospl☐ Sediment Deposits (B2) ☐ Presence of Redu		g Roots (C3)	′	/-Season \ ayfish Burr	Water Table (C2)
Drift Deposits (B3) Recent Iron Redu	, ,	ls (C6)		•	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		, ,	$\overline{}$		Position (D2)
Iron Deposits (B5)	Remarks)		☐ Sha	allow Aqui	tard (D3)
Inundation Visible on Aerial Imagery (B7)				C-Neutral	
Water-Stained Leaves (B9) Field Observations:			Sph	nagnum m	oss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	c):				
Water Table Present? Yes No Depth (inches		-			
	s):		Hydrolog	v Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot				.,	
produce Neconded Data (stream gauge, monitoring well, aenai prior	tos, previous insp	ections), ii avi	allable		
Remarks:					
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		1	\cap		
No hegdrologe	2 pro	zen	A		

WNAH026 _

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

VEGETATION (Four Strata) – Use scientific nar	mes of pl	ants.		Sampling Point:
Table Charles (DLA)		Dominant		Dominance Test worksheet: /
Tree Stratum (Plot size:	% Cover	Species?	***************************************	Number of Dominant Species
1. Lino den from tulipitera	70		FACU	That Are OBL, FACW, or FAC:(A)
2. Acer rubnum	<u> 20</u>	$\underline{}$	FAC	Total Number of Demisser
3.				Total Number of Dominant Species Across All Strata: (B)
4			:	
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				
	60	= Total Cov	er	OBL species x 1 =
50% of total cover: <u>5</u>	20% of	total cover:	12	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		/		FAC species x 3 =
1. Liquidant word word colore	1.5		MAC	FACU species x 4 =
2. Liberdon Jan telepitera	78	1/	FACU	UPL species x 5 =
3. Acet outroum	1	<u> </u>	ICINA	Column Totals: (A) (B)
A			- FAC	(0)
				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
,	30:	= Total Cov	er ,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 15				Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size:)		/		1
1. Lonicera japonica	κ	1	KAC	¹ Indicators of hydric soil and wetland hydrology must —be present, unless disturbed or problematic.
2				
2				Definitions of Four Vegetation Strata:
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9	***************************************		1	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				or size, and woody plants less than 3.20 it tail.
10.				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12.				
		Total Cov	er ,	
50% of total cover: 2.5	20% of	total cover:		
Woody Vine Stratum (Plot size:)	110	/		
1. Spular rotenduro ha	70	$\overline{}$	FAC	
2. Vitis cotrudito la	10		FAC	
3. Lonicora conomica	18	***************************************	F14C	
4	-/			
5				. /
J	10		[Hydrophytic (/
ファ		Total Cov	er , '-	Vegetation Present? Yes No
50% of total cover: 3()	20% of	total cover:		163
Remarks: (If observed, list morphological adaptations below	v).			
				*

^	$\overline{}$		
`	()	1	

WNAHOZ6
Sampling Point: ______

Depth Redox Features	n the absence of indicators.)
- ACGOAT CAGICS	
$\begin{array}{c ccccc} \underline{\text{(inches)}} & \underline{\text{Color (moist)}} & \underline{\text{Color (moist)}} & \underline{\text{Moist}} & \underline{\text{Type}^1} & \underline{\text{Loc}^2} \\ \hline \bigcirc -3 & \underline{\text{Loc}^2} & \underline{\text{Loc}^2} \\ \end{array}$	Texture Remarks
3-7 104R 4/7	3 und form
2 1 10 11/2	Smalloan
1-12 101R 7/3	Swedy lown
12-16 104K 513	Sondy loom
	(
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils³:
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T,	1 1
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B) 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) Muck Presence (A8) (LRR U) Redox Depressions (F8)	Red Parent Material (TF2)
Muck Presence (A8) (LRR U)	☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	Other (Explain in Nemarks)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 1	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLF	•
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type:	
i recorractes)	Under Call Descent 2
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Hydric Soil Present? Yes No
Remarks:	
Remarks:	
Remarks:	

wnah026_u



Upland data point wnah026_u facing east



Upland data point wnah026_u facing north

wnah026 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

City/Cou	4 9	(4)
Applicant Gware Dominion 10000 September DOMINION 10000 September DOMINION		0.5
	Township Range	
togaline terrange etc.) Dept. (3) (5) togaline	het (concave convex none) LOUCIAUR Stope (%)	
Local recognition of the MIRA, The Residence of the Resid	42.511 Long 7739 00.55) Gatum WSG	. 08
Son Map Ont Manie. 1767 (4)	NWI classification.	
Are climatic inhydrologic conditions on the site typical for this time of year? Yes	No (If no_explain in Remarks.)	
Are Vegetation Soil or Hydrology significantly disturbe	d? Are "Normal Circumstances" present? Yes No	
Are vegetation Soil or Hydrology naturally problematic	(If needed, explain any answers in Remarks.)	No state of the same
SUMMARY OF FINDINGS – Attach site map showing samp		tc.
Yes X No	s the Sampled Area vithin a Wetland? Yes No	And And Andrews of the Control of th
i ceridik		
HYDROLOGY		
Wetland Hydrology Indicators	Saconday Industria management	
The approximation of the state	Secondary Indicators (minimum of two required Surface Soil Cracks (B6)	Li :
Aquatic Laura (B13)	Sparsely Vegetated Concave Surface (R8)	
Little of the Cartery (CLRR U		
Hymogen Sollide Capric, 1	Moss from times (0.16)	
Control Research after		
Unit Deposits (B3)	The state of the s	
☐ Conft Deposits (B3) ☐ Recent Iron Reduction in Till ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)		!
(C7) Deposits (B5) Other (Explain in Remarks)	Geomorphic Position (D2)	
immdation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3) FAC-Neutral Test (D5)	-
Vater Stamed Leaves (B9)	Sphagnum moss (D8) (LRR T. U)	1
Field Observations.	2 Springston 11055 (DO) (EAC).	
Surface Water Present? Yes No Depth (inches)		The state of the s
Water Lable Present? Yes No Depth (inches)		
Saturation Present? Yes No Depth (inches).	Wetland Hydrology Present? Yes No	ĺ
arcala tes capillary fringe; Sesse me see or red Outal istream gauge, monitoring well, aerial photos, provide		- !
Remarks	\bigcap	
Aytrology.	present	
1,000		
		Ī
		:

	Abachit	lants.	lade -	The second secon
stratom Plot sage	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Acr rulyum	20	\mathcal{O}_{i}	EAC	Number of Dominant Species That Are OBL, FACW or FAC (A)
Liquidambar Starser Plus	25		FAC	That Are OBL, FACW or FAC (A)
Querus Centido de	7	7	FACY	Total Number of Dominant
Quercus a/bn	25	. /	FACL	Species Across Ali Strata (8)
			1760	Percent of Deminant Species That Are OBLE FACW or FACE (A-B.)
The second secon			** *	Prevalence Index worksheet
	-		***************************************	Total % Cover of Multiply by
The state of the s	95			OBL species x 1 =
50% of total cover	7.5 2000	= Total Cov	ຶ່າ <i>(</i> 2)	FACW species x 2 =
Lange Charles and	20 % 01 يهي	total cover	1-1	FAC species x 3 =
Les ruferen	72	\ /	F11/	FACU species x 4 =
Magnoha vergeniana	10		FACW	UPL species x 5 =
grisa organiana	10		Treco	
				Column Totals (A) (B)
				Prevalence Index = B/A =
		Proceedings of the contract of	Minimum makes in company on the cost of a	Hydrophytic Vegetation Indicators:
ACCUPATION OF THE PARTY OF THE	THE STATE OF THE S	and the second second second second second	· · · · · · · · · · · · · · · · · · ·	1 - Rapid Test for Hydrophytic Vegetation
and the state of t	41 -4144 - 4 -455 - 15 -	**********		2 - Dominance Test is >50%
The second secon	20			☐ 3 - Prevalence Index is ≤3.0
50 × et total cover 15	-	 fotal Covi 	,	Froblematic Hydrophytic Vegetation of splants
50 ≈ nt total cover 15 Stratum (Plot size)	20% of	total cover	(c)	
	10			Indicators of hydric soil and wetland hydrology must
Prundinaria grandea Chasmanthem Pakum	18		FACY	be present, unless disturbed or problematic
Crasman hum paxam	10		FACW	Definitions of Four Vegetation Strata:
A CONTRACTOR OF THE STATE OF TH	*** *** *****	C. Mark M. Conseilers of the season	· · · · · · · · · · · · · · · · · · ·	Tree - Woody plants, excluding vines 3 in (7.6 cm) or
the state of the s		11 - 1100 - 101 - 10 ga	A Colombia Colombia	more in diameter at breast height (DBH), regardless of
and the second s	1901			height
				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in, DBH and greater than 3.28 ft (1 m) tall.
				Herb All herbaceous (non-woody) plants regardless of size, and woody plants less than 3.28 ft tall.
		_		Woody vine – All woody vines greater than 3.28 ft in height
The state of the s	55			
50% of total cover / C		Total Cove		
	20% of	total cover		
dy Vine Stratum (Plot size	UN	1/	KM	
mus & romanona	-10		O AC	
	of the contract of the contrac			
The second secon	No consistence of the second section of the second second			
The second secon	*** ******* *** ***** *			
en la companya de la companya de la companya de la companya de la companya de la companya de la companya de la		and the second second		Hydrophytic
•••		Total Cove		Vegetation
)20% of i	total cover.	0	Present? Yes / No

_	_	
C		11

WNAH032f	
Sampling Point.	\mathcal{O}

Profile Description (Describe to the depth needed to document the indicator or confirmally Males Redux eatures Males Redux eatures Special Eatures	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A12) Thin Dark Surface (F1) (LRR U) Depleted Dark Surface (F7) 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 Redox (S5) Sandy Redox (S5) Sandy Redox (S7) (LRR P, S, T, U) Restrictive Layer (if observed):	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) T) 3Indicators of hydrophytic vegetation and wetland hydrology must be present. unless disturbed or problematic. 9A)
Type Depth (inches) Remarks Aganz Son p	Hydric Soil Present? Yes No

wnah032f_w



Wetland data point wnah032f_w facing east



Wetland data point wnah032f_w facing south

WETLAND DETERMINATION DATA	FORM – Atlantic and G	iulf Coastal Pl	ain Region $\beta - 15 - 11$
			Sampling Date: WNAI4032
			Sampling Point:
Investigator(s): DDV/SCT	Section, Township, Range:	114	
Landform (hillslone terrace etc.)	*		
Subregion (LRR or MLRA): Lat:	"54 '47 72 Pong	17008818	7. 65 / Datum: 1. 64 64
Soil Map Unit Name: RAINS			cation: Apple
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation, Soil, or Hydrology significantly			present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr		explain any answe	
SUMMARY OF FINDINGS – Attach site map showing			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland?	Yes	No
Not all three p	surce meter	s pres	cot
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) High Water Table (A2) Aquatic Fauna (B1) Marl Deposits (B1)	•		jetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide (' '	☐ Drainage Pat ☐ Moss Trim Li	
r · · · · · · · · · · · · · · · · · · ·	neres along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Presence of Reduction		Crayfish Burn	` ′
	ction in Tilled Soils (C6)	☐ Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	` '	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Financial Imagery (B7)	₹emarks)	Shallow Aqui	
Water-Stained Leaves (B9)		FAC-Neutral	` '
Field Observations:		Spriagrium in	oss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches	s):		
Water Table Present? Yes No Depth (inches			
Saturation Present? Yes No Depth (inches	(i): Wetland H	Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo			
Wetland Lydrology not	present		

√EGETATION (Four	· Strata)	Use scientific names of plants

Sampling Point

THE RESIDENCE OF THE PROPERTY	A 5 - 1 1			Samping rolling
Tree Stratum (Plot size	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
		Species /		Number of Dominant Species
Lizerolanbera styrester			FAC	That Are OBL. FACW, or FAC(A)
Quescus faurifolia	30		EACW	
3 Geresus alba	20	$\overline{}$	EALU	Total Number of Dominant
	,,		FIACU	Species Across All Strata: (B)
4				Percent of Denument Consists
The second secon				Percent of Dominant Species That Are OBL FACW or FAC (A/B)
				That Are OBL_FACW_or_FAC(A/B
. 0	The Advantagement of the Advantage	-		Prevalence Index worksheet:
The state of the s				I and the second
8				Total % Cover of Multiply by
	20	= Total Cov		OBL species x 1 =
	V-00	= Total Cov	/er	
50% of total cover	<u>U</u> 20% of	total cover	10	FACW species x 2 =
Sapling/Shrub Stratum (Plot size 30)		1		FAC species x 3 =
	dies.	U.	8 15 2 2 1	FACU species x 4 =
· Guerra alka			FLACU	A The State of the
2 fees response		$\underline{}$	FAL	UPL species x 5 =
3	•			Column Totals: (A) (B)
1			-	
4.				Prevalence Index = B/A =
5.				Hydrophytic Vagatation Indicate
6.				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	_			3 - Prevalence Index is ≤3.0°
	10	- Total Car		_
ron	,	- TOTAL COV	rei 3	Problematic Hydrophytic Vegetation (Explain)
50% of total cover	20% of	total cover		
Herb Stratum (Plot size)	•	1		Indicators of hydric soil and wetland hydrology must
1 (hasmanthian laven	<		FACW	be present, unless disturbed or problematic
· Chasmanthian Jaxun · Dichanthelin accordance				L
· Pronuntallian actendar	- 42		FACU	Definitions of Four Vegetation Strata:
The state of the s				-
4				Tree - Woody plants, excluding vines, 3 in (7.6 cm) or
	TO 18 ME the searches assessments	trablements as I show that coming dyn, i		more in diameter at breast height (DBH) regardless of
The second secon				height
U.				Sapling/Shrub - Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				trian 5 in. Don and greater than 5,26 it (1 iii) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
G				of size, and woody plants less than 3 28 ft tall
and the second s			ļ.	or one of the woody plants lead than 3 20 ft tall
The second state of the se				Woody vine - All woody vines greater than 3.28 ft in
A STATE OF THE STA			-	height
				, and the second
17	270			
4.00		: Total Cov	er (f	THE RESERVE OF THE PROPERTY OF
50% of total cover $\perp L\mathcal{O}$. 20% of	total cover		
- Voody Vine Stratum (Plot size 🎉)		7		
C. 1. 1. 1011.	de.		CMI	
2m has commedial	79	V	FAL	
Ustra retradicalla	15		FAC	
3 Torderalla - draw hard have			FAC 1	
E. W. Carlotte		****************	Pri Pri Aleksanan and Princi al.	
· Farthrocisms quing cololia		Authorization is a second at any gage copy	EK	
CAMPSIS MAGGENS	_ 5 _		FH(Hydrophytic
	80-	Total Cov		Vegetation
	-		11	Present? Yes No
50% of total cover:		total cover	16	163
Remarks (If observed list morphological adaptations believed)	ow)			

Profile Desc	ription: (Describe t	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence of in	ndicators.)
Depth	Matrix		Redo	x Feature:	S			,
unches	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-5	104R 3/2	***************************************			*************		Sandy	opm
5-16+	104R4/3						Spale	Dem
i	•							
1	A CONTRACTOR OF STREET, STREET	***						
	THE RESERVE THE STREET OF THE STREET, AND THE		The second of the second secon				10.0 to 10.0 to 10.0 to 10.0 many where the second	The control of the co
				a defendance of the section	Whater on P. S. Labour and p. p.		An electron as a second first table (as) and as one	The second section of the section of the section of the second section of the section
	The state of the s							
Type C=Co	oncentration, D=Dept	etion, RM≃R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	Location Pt.=	Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applica	ible to all LI	RRs, unless other	wise note	ed.)			Problematic Hydric Soils ³ :
Histosof			Polyvalue Be) 🔲 1 cm Muck	(A9) (LRR O)
, <u> </u>	rpedon (A2)		Thin Dark Su				2 cm Muck	(A10) (LRR S)
Black His	stic (A3) n Sulfide (A4)		Loamy Muck			O)	T 1	ertic (F18) (outside MLRA 150A,B)
Constant of	Layers (A5)		Loamy Gleye	,	F2)		T 7	Toodplain Soils (F19) (LRR P, S, T)
· 	Bodies (A6) (LRR P.	T. U)	Depleted Mark S		6)		Anomalous (MLRA 1	Bright Loamy Soils (F20)
	cky Mineral (A7) (LR		Depleted Dar					t Material (TF2)
	esence (A8) (LRR U)		Redox Depre	ssions (F8	3)		[]	ow Dark Surface (TF12)
	ck (A9) (LRR P. T)		Marl (F 10) (L				Other (Expl	lain in Remarks)
	Below Dark Surface rk Surface (A12)	(A11)	Depleted Och					
	rk Surface (A32) ame Redox (A16) (M	I DA 160A)	Iron-Mangane					s of hydrophytic vegetation and
	ucky Mineral (S1) (L		Umbric Surfa Delta Ochric			U)		hydrology must be present
	leyed Matrix (S4)	5, 5,	Reduced Ver			DA. 150B)	(mess c	listurbed or problematic
Sandy Ri	edox (S5)		Predmont Flo				IA)	
	Matrix (S6)		Anomalous B	right Loan	ny Soils (F	20) (MLRA	149A, 153C, 153	SD)
	face (S7) (LRR P. S.	T. U)						
	ayer (if observed):							
Туре								\/
	hesi	The second of the second secon					Hydric Soil Pres	sent? Yes No X
Remarks								
			17		·	,	` ()
			/U ($\supset \land$	u d	mo	Such	DASALIO
			r		5			
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								TARABELLE STATE OF THE STATE OF
								And the second s

wnah032_u



Upland data point wnah032_u facing east



Upland data point wnah032_u facing north

wnah032 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site City/County Approant** (where Investigator(s) Section, Township, Ranger Local relief (concave convex none) Soil Map Unit Name KAINS Are climatic inhydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hivdric Soil Present? within a Wetland? VÆtland Hydrology Present? Remarks HYDROLOGY Wetland Hydrology Indicators Secondary Indicators (minimum of two required) beinger a end to multifacility sightfield it e. check all that apply Surface Soil Cracks (86) 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) Sedenon' Deposits (82 Presence of Reduced fron (C4) Crayfish Burrows (C8) OF HOROGER (P.C. Recent from Reduction in Tifled Soils (CG) Saturation Visible on Aerial Imagery (C9) Algai 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? Depth (inches) Water Table Present? Depth (inches) Saturation Present? Wetland Hydrology 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.

WNAHO33f_~

T	Absolute Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size	% Cover Species?	Status	
1 Liquid kembras styrace Mac	25 V	FAC	Number of Dominant Species That Are OBL, FACW, or FAC (A)
Thus toedle	25 /	FAC	
Almis oyer come	-10	FACW	Total Number of Dominant Species Across All Strata (B)
1 ter rubrum	201	FAC	opedes Across All Strata (8)
Lariodondon tulisitore	10	FACU	Percent of Dominant Species / 157
	THE RELATION OF THE PARTY OF TH	- the Park Laborator	That Are OBI. FACW or FAC (A/B)
	The state of the s	Marine New Advisory of State of State	Prevalence Index worksheet:
The state of the s	The state of the s		Total % Cover of Multiply by
	90 - Total Cove		OBt species x1=
50 % at total cover 6/5	90 - Total Cover	18	FACW species x 2 =
- 294 無語 (1898) (Stratum) (Pret size)	A STATE OF THE STA		, FAC species
Mægnolia yirgeniana Clethra alaifolia Liguel ambar styraciflua	10	FACI	I A. 16.2
clother ala fall	33 7/	Y W	V VUPL species v.5.≘
Cignical ander Styracifluce	20 1/	FAC	Colonin Totals
1 Thex opace	70	FAC	the state of the s
		<u> </u>	Prevalence Index = B/A =
f)			Hydrophytic Vegetation Indicators.
7			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
The second secon	Marine the second of the secon		3 - Prevalence Index is ≤3.0
50% of total cover 33	_ COO = Total Cove		Problematic Hydrophytic Vegetation (Explain)
Fierb Stratum (Plot size,	20% of total cover	12	, completely
1 Anan Core	1-		Indicators of hydric soil and wetland hydrology must
Clothan all Dignates.	(<u>)</u>	EAC	be present, unless disturbed or problematic.
celliste athitolla	15 V =	FACW	Definitions of Four Vegetation Strata:
4	MATERIA SERVICE SERVIC		Tree - Woody plants avaluating
			Tree – Woody plants excluding vines 3 in (7.6 cm) or more in diameter at breast height (DBH) regardless of
A Committee of the Comm			height.
	erese e e e e e e e e e e e e e e e e e		Sapling/Shrub - Weody plants excluding vines less
the state of the s	THE SHOP IN THE STREET STREET		than 3 in DBH and greater than 3.28 ft (1 m) tall.
en en en en en en en en en en en en en e	The second state and the second second second second		Herb All herbaceous (non-woody) plants (regardless
in the control of the	TOTAL TITLE A COMMITTER WORKS AND A COM-	************	of size and woody plants less than 3.28 ft tall
and the second of the second o			
The state of the s	A CONTRACTOR OF PROPERTY AND ADMINISTRATION OF A STREET AND ADMINISTRATION OF A STREET AND ADMINISTRATION OF A	Marie Companies Administra	Woody vine - All woody zines greater than 3.28 ft in theight
The second secon	THE STREET, AND THE PERSON OF		
	.30 = Total Cover		and the same of the same and the same and the same and the same and the same and the same and the same and the
50% of total cover 15	20% of total cover.	6	
Woody Vine Stratum (Plot size	/-		Ì
1 Sulax potendifolice	15	FAC	
2 Uchis potundifolia	5	FAC	
3			
4			
5			
	Z = Total Cover		Hydrophytic Vegetation
50% of total cover	20% of total cover		Present? Yes No
Romarks ill observed list morphological adaptations below).	employees and a fig. in column 1 handlesser 1 stranger - model of a responsible to the column of the		

Profile Desc	cription: (Describe to the dep	oth needed to document the indicator or co	nfirm the absence of indicators.)
(neptis	Matrix	Redox Features	
A. 1925		Color (moist) % Type Lor	c' Texture Remarks
0-6	104R 3/1		(OAM
6-14+	104R 5/2	10485/445/1 K C 11	1 SCL
<i>-</i> , , (The second secon	W1100/1000	
	the state of the s	we come to the control of the contro	The state of the s
:	.,		
		The second secon	
	The second of th		
		=Reduced Matrix_MS=Masked Sand Grains	Lecation PL=Pore Lining, M=Matrix
·		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils .
Histosol		Polyvalue Below Surface (S8) (LRR S	, T, U) 1 cm Muck (A9) (LRR 0)
· ·	upedon (A2)	Thin Dark Surface (S9) (LRR S. T. U)	2 cm Muck (A10) (LRR S)
– [] da⊾k Hi	atic (A3)	Loamy Mucky Mineral if 1) (LRR O)	Reduced Vertic (F18) (outside MLRA 150A,B)
- [] Hydrage	o Sulfide (A4)	Loamy Gleyen Matrix it 2)	Predmont Floodplain Soils : F19) (LRR P. S. T)
- [] Struttfam	Linguis (Ab)	Depleted Matrix (E3)	Anomalous Bright Loamy Soils (F20)
- [] Caaan	Bodies (Ab) (LRR P. T. U)	Redox Dark Surface (F6)	(MLRA 153B)
	Reviewed 30 (LRRPTU	F ☐ Deploted Dark Sudace (£7)	Pert Parent Material (152)
Muck Pri	esence (A8) (LRR U)	Redox Depressions (F8)	Very Shallow Dark Surface (TF12)
📗 1 cm Mu	ick (A9) (LRR P, T)	Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted	f Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	
- [] Thak Da	ark Surface (A12)	Iron-Manganese Masses (f. 12) (LRR (O. P. T) Indicators of hydrophytic vegetation and
_ [] - 5251 M	anni Redox (A16) (MLRA 150.	A) Dubnic Surface (£13) (LRR P. T. U)	wetland hydrology must be present
— [] Tak by M	Survey Menoral dely (LRR O. S)	Delta Ochne d 12 (MLRA 151)	unless disturbed or problematic
- [] Paraty N	actived Matrix (54)	☐ Reduced Vertic (f. 18) (MLRA 150A, 18	
arety e	1882 - 18 - 18 18 18	Picdmont Hoodplain Soils (F.19) (MLR	
- [] Segrat	A Barrier Commence	— 🔲 Anomalcus Pright Loamy Soils (F20) (
The second	dec ST-(LRR P S, T, U)		
Restrictive L	.ayer (if observed):	the state of the s	
Type	CONTROL NAME OF THE PARTY WAS A STATE OF THE PARTY OF THE		
	Thes:	The state of the s	Hydric Soil Present? Yes No
Remarks	The state of the s	Minimus Januarius	nyunc son Present? TesNO
is greates			

Hydric Soil present

wnah033f_w



Wetland data point wnah033f_w facing east



Wetland data point wnah033f_w facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Application LOMINION		SL San	ipling Date 08/15/19
Sull Map Unit Name PDWEST Lat Soil Map Unit Name	Section Township F	convex none, port Long 77°59° CB. 41°)	Stope (%)
Are climatic, hydrologic conditions on the site typical for this to	me of year? Yes X No	NWI classification	
Are Vegetation Soil or Hydrology sign		"Normal Circumstances" presei	
Net reget them Soil or Hydrology natu		needed, explain any answers in I	
SUMMARY OF FINDINGS - Attach site map sh			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	within a Wetl	d Area and? Yes	No A
Not coll three	pera met	ers Mese	nt
HYDROLOGY			
Wetland Hydrology Indicators	the control of the co	THE STATE OF THE S	***************************************
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S		Surface Soil Crack Sparsely Vegetate Drainage Catterns Moss Trim Lines (8 s (C3) Dry-Season Water Crayfish Burrows (d Concave Surface (R8) (R16) (
Surface Water Present? Yes No _X Depth	(inches):		
Water Table Present? Yes No Depth			
Saturation Present? Yes No Depth (uncludes capillary fringe)	(inches): w	etland Hydrology Present? Y	'es No
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspection	s), if available:	
Remarks:	· ·		
Wetland hydrology,	ret present		

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

Tree Stratum (Plot size:	Absolute	Dominan	Indicator	Dominance Test worksheet:
	% Cover	Species'		Number of Dominant Species
1. Cheerens phillos			FHCW	That Are OBL, FACW, or FAC: (A)
2. General of ba	-25_		FACU	Total Number of Demiser
3. Fines tealer	<u> </u>		FAC	Total Number of Dominant Species Across All Strata: (B)
4. Cirioclendon telepitera	10		FALV	
5	*****			Percent of Dominant Species That Are ORL FACIA
6				That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	50	= Total Co		OBL species x 1 =
50% of total cover: 25				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20% 01	total cover	:	FAC species x 3 =
1. Ilex algea	10		m.a.	FACU species x 4 =
2. Ligeriden ser storgeifting	10	-	EAC	1
			FAC	
4. Prince coce tina			FACU	Column Totals: (A) (B)
	10		FACU	Prevalence Index = B/A =
5. Magadia Virginiana			<u>FACW</u>	Hydrophytic Vegetation Indicators:
0				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	 ,		***	3 - Prevalence Index is ≤3.0¹
	45=	: Total Cov	er _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 22.	💆 20% of 1	otal cover:	1	Throbernation (Explain)
Herb Stratum (Plot size:)	and the			1 Indicators of hydric acity of the state of
1. Arundinaria esta antica	_5		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Jaccinocom champing	5	$\overline{1}$	FIACU	Definitions of Four Vegetation Strata:
3. Clasting a color folia	5	./	FIACW	
4.			4 N 10 No	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of height.
67	_			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				
	<u> 15_</u> =	Total Cove	er	
50% of total cover: 7.5	20% of to	otal cover:	5	
Woody Vine Stratum (Plot size:)	4000			
1. Vitis rotandidella			FAC	
2. Species solvedistin	2		FHC	
3				j
4.				
5		-		
	4 =	Total Cove	or .	Hydrophytic Vegetation
50% of total cover:		tal cover:	8	Present? Yes No
Remarks: (If observed, list morphological adaptations below		tur cover.		V
paragram dag tamono do lor	,.			
The state of the s				1

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SU	ŧ	L

Sampling Point: _____

Profile Des	cription: (Describe to	the depth	needed to docum	nent the	indicator	or confirm	the absence of in	ndicators.)	
Depth	Matrix		Redo	x Feature				,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	1071-712	1000		*			SL		
4-9	1078 4/g	[40		-			34		
0-16+	10 48 5/2	, 0,,	104/2 95	1, 1					
- 1 × -	10 (1/5	-72 -	10/15 66/	» <u> </u>		1	<u> </u>		
l ————									

¹Type: C=C	oncontration D=Danla					***			
Hydric Soil	oncentration, D=Deple Indicators: (Applicat	uon, KIM=K	educed Matrix, MS	=Masked	Sand Gra	iins.	Location: PL=	Pore Lining, M=Matrix.	
Histosol		ne to an Li			-		Indicators for Problematic Hydric Soils ³ :		
:==	pipedon (A2)		Polyvalue Bel	iow Suria	ce (S8) (L	RR S, T, U		(A9) (LRR O)	
Black Hi			Thin Dark Sur	Mineral	(LKK 5, /E1) /I DD	(, U)		(A10) (LRR S)	
	n Sulfide (A4)		Loamy Gleyer	d Matrix ((F I) (LKK F2)	0)	Reduced Ve	ertic (F18) (outside MLRA 150A,B)	
	Layers (A5)		Depleted Mate		,		Anomalous	loodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)	
Organic	Bodies (A6) (LRR P, 1	, U)	Redox Dark S		6)		(MLRA 1		
5 cm Mu	icky Mineral (A7) (LRR	P, T, U)	Depleted Darl					Material (TF2)	
Muck Pr	eserice (A8) (LRR U)		Redox Depres		3)			w Dark Surface (TF12)	
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (LI					ain in Remarks)	
	Below Dark Surface (A11)	Depleted Och						
	irk Surface (A12) airie Redox (A16) (M L	DA 450A)	Iron-Mangane	se Masse	es (F12) (L	RR O, P, 1		of hydrophytic vegetation and	
Sandy M	lucky Mineral (S1) (LR	RA 150A)	Umbric Surfac	ce (F13) (LRR P, T,	U)		hydrology must be present,	
Sandy G	leyed Matrix (S4)	K 0, 3)	Delta Ochric (4.4505\	unless di	sturbed or problematic.	
	edox (S5)		Reduced Vert Piedmont Floo	ic (F F8) (i adolaio Sa	MLKA 150	IA, 150B) Bal da 440	141		
	Matrix (S6)		Anomalous Br	iaht I nan	nv Snils (F	20) (MI P.A	м) \ 149A, 153C, 153I	0)	
Dark Sur	face (S7) (LRR P, S, 1	r, U)			.,	20) (1 140/1, 1000, 100	5)	
Restrictive L	.ayer (if observed):		***************************************						
Туре:			···						
Depth (inc	:hes):						Hydric Soil Pres	ent? Yes No	
Remarks:	en de la como e en el Recolo de la colonidad de la colonidad de la colonidad de la colonidad de la colonidad d			***************************************				163	
			1				Λ		
		/			-	\cap	X	Charles and	
Aganz soil not present									
				-			/	·	
								ļ	

wnah033_u



Upland data point wnah033_u facing east



Upland data point wnah033_u facing north

wnah033 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SERP	City/County: <u>NASH</u> Sampling Date: <u>8-(5-1</u>) State: <u>NC</u> Sampling Point: <u>NAHO31-</u>
Applicant/Owner: Domun Con	State: NC Sampling Point NAH031-
Investigator(s): DWEST	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat:	35°53 51.577Long: 77° 59' 37.788" Datum: 25608
Soil Map Unit Name: We had Lee	NWI classification: PFD
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes X No (If no, explain in Remarks.)
	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? Hydric Soil Present? Wetland Hydrology Present? Yes No No No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aguatic Fauna (B1)	F
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B' Marl Deposits (B1)	
Saturation (A3) Hydrogen Sulfide	
	neres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface Other (Explain in F	
Iron Deposits (B5)	Remarks)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks: Aydrology preser	

WNAHO31f-W

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

	Absolute	Dominan	t Indicator	Davis Time Time Touris
Tree Stratum (Plot size:)		Species		Dominance Test worksheet:
1. Acer vulnum	70	C	: Status	Number of Dominant Species
	-		- Utic	That Are OBL, FACW, or FAC: (A)
2. Liquid amby styracithic	10	\mathcal{L}	FAC	1
3. Nussa Sylvatica	20	<i>.</i>	FAC	Total Number of Dominant Species Across All Strata: (B)
4. Pinus taela	20	$\overline{}$	EN	Species Across All Strata:(B)
		-v	173	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				(A/B)
7			-	Prevalence Index worksheet:
8				
8	-	***************************************		
		= Total Co		OBL species x 1 =
50% of total cover:	20% of	total cove	r 16	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:	/ /			FAC species x 3 =
1. Legito Anylow Styrmer Fluor	1		ENC	FACU species x 4 =
1 Styracitica	12		THE	
2. Acor interna	10		FAC	UPL species x 5 =
3. Wamo/ia virginiana	15	V	74/11	Column Totals: (A) (B)
4. Nyssa sylvatica	77		FAC	
5.			1/1	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
8				2 - Dominance Test is >50%
	~ (5)			☐ 3 - Prevalence Index is ≤3.01
~ -		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 25	20% of	total cover	:_/0_	, , , , , , , , , , , , , , , , , , , ,
Herb Stratum (Plot size:)	~			1
1. Woodwardia acreolota	5	$\mathcal{O}_{\mathcal{A}}$	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Osmeda unamomea	<u> </u>	$\overline{}$		La constant de la con
2			FACN	Definitions of Four Vegetation Strata:
3				Tree Meaduraters and the second
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5		***************************************		height,
6				Thoight.
6				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9.				Herb - All herbaceous (non-woody) plants, regardless
10				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 Cov	er	
50% of total cover: 5	200/ 264	otal cover:	~ 2_	
Woody Vine Stratum (Plot size)	20 /0 011	otal COVER		
1. Smilax retriend to 100	70		15-10-	
IMITAX FORMER DOLICE	<u> </u>		FAC	
2.				
3				
4				
-				
J				Hydrophytic /
	<u> </u>	Total Cov	er , r	Vegetation
50% of total cover:	20% of t	otal cover:	7	Present? Yes / No
Remarks: (If observed, list morphological adaptations below				
(The second second adaptations below	·)·			

SOL	ı
UU 1	_

Sampling Point: ______

Profile Description: (Describe to the de	oth needed to document th	e indicator or con	firm the absence of i	ndicators)
Depth Matrix	Redox Featu	res		
Color (moist) %	Color (moist) %	Type ¹ Loc ²	<u>Texture</u>	Remarks
10-11/1010 116			- 100m	<u> </u>
10 10 to 100 111 -	1715 11/1-2		_ sonely	oun
14-18/18/18/19	104R4/42	$\subseteq N$	1 sandy	
	ı		7	
			Account of the second of the s	
Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Mask	ed Sand Grains	² Location: DL =	Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise no	oted.)		Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Sur	face (S8) (LRR S , 1		(A9) (LRR O)
Histic Epipedon (A2) Black Histic (A3)	Thin Dark Surface (S	9) (LRR S, T, U)	2 cm Muck	(A10) (LRR S)
Hydrogen Sulfide (A4)	Loamy Mucky Minera Loamy Gleyed Matrix	ol (F1) (LRR O)	Reduced V	ertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	Depleted Matrix (F3)	· (F2)	Pledmont F	loodplain Soils (F19) (LRR P, S, T)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface	(F6)	(MLRA 1	Bright Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U)				Material (TF2)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depressions (F8)		w Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Marl (F10) (LRR U) Depleted Ochric (F11	\ /MI DA 151\	Other (Expl	ain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Mas	ses (F12) (LRR O.	P. T) ³ Indicators	of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 1504	Umbric Surface (F13)	(LRR P, T, U)		hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4)	Delta Ochric (F17) (N	ILRA 151)	unless d	isturbed or problematic.
Sandy Redox (S5)	Reduced Vertic (F18) Piedmont Floodplain	(MLRA 150A, 150	B)	
Stripped Matrix (S6)	Anomalous Bright Los	amy Soils (F20) (MI	149A) LRA 149A, 153C, 153	ח
Dark Surface (S7) (LRR P, S, T, U)		, (, (<i>5</i> ,
Restrictive Layer (if observed):				
Type				(
Remarks		1997 - Para Carallel Marie Sando Almongologo (1987) de Philadel e de maly por e minera Mariedad de	Hydric Soil Pres	ent? Yes No
. 1	\bigcirc	Γ		
191,	Dric So	~ ()	-1	
	De. CC 20	a tre	resoul	/
O		U		

wnah031f_w



Wetland data point wnah031f_w facing east



Wetland data point wnah031f_w facing south

WETLAND DETERMINAT	ION DATA FOR	RM – Atlantic and	Gulf Coastal P	lain Region
				WAHO31.
Applicant/Owner Dominion	7.77	, January	State 1/1 1/	Sampling Point.
Investigator(s)	Saat	ion Tay makin D		
Subregion (LRR or MLRA)	feed romes	I solve from the solv	The second section will be seen and a second second section of the second section sect	
Subregion (LRR or MLRA)	101 250 53	Prefer (concave, conve マペク フロダ	x. none)	Slope (%) 5 ()
Soil Map Unit Name Welve Use	_ tai) .) L . 6 (O) Long:		
			NWI classifi	cation.
Are climatic / hydrologic conditions on the site typical for	this time of year?			
Are Vegetation Soil or Hydrology				present? Yes X No
Are Vegetation Soil or Hydrology			. explain any answe	
SUMMARY OF FINDINGS - Attach site ma	ip showing sar	npling point locat	ions, transects	s, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks X Yes Yes A A A A A A A A A A A A A	No No	Is the Sampled Area within a Wetland?	Yes	_ No X ters presend
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	itors (minimum of two required)
Primary Indicators (minimum of one is required, check a	all that apply)		Surface Soil	
Surface Water (A1)	tic Fauna (B13)			getated Concave Surface (B8)
· l i a	Deposits (B15) (LRI	•	Drainage Pa	tterns (B10)
☐	ogen Sulfide Odor ((Moss Trim Li	
□ / □ / □ / □ · · · · · · · · · · · · ·	zed Knizospheres a ince of Reduced Iro	long Living Roots (C3)	<u> </u>	Water Table (C2)
	nt Iron Reduction in		Crayfish Buri	sible on Aerial Imagery (C9)
Algaí Mat or Crust (B4)	Muck Surface (C7)		[]	Position (D2)
In tron Deposits (B5)	(Explain in Remark	s)	Shallow Aqui	, ,
Inundation Visible on Aerial Imagery (87)			FAC-Neutral	
Water-Stained Leaves (B9) Field Observations:			Sphagnum m	oss (D8) (LRR T, U)
	Pepth (inches):			
	Pepth (inches):			2 (
	epth (inches):		Hydrology Presen	
(includes capillary fringe)		1		tr resNo
Describe Recorded Data (stream gauge, monitoring well	l, aerial photos, prev	vious inspections), if av	ailable	The second state of the second of the second
Remarks	and die western, was also also and a second of the second			
Ma	hydr	slogg	pres	ent

WNAHO31-U

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status inus tree Number of Dominant Species PAC That Are OBL FACW, or FAC (A) Total Number of Dominant Species Across All Strata (B) Percent of Dominant Species That Are OBL FACW or FAC Prevalence Index worksheet: Total % Cover of: **OBL** species = Total Cover **FACW** species x 2 = 20% of total cover FAC species x 3 = FACU species UPL species _____ x 5 = ____ Column Totals. __ (A) Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover. 22 Herb Stratum (Plot size Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Four Vegetation Strata Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. = Total Cover 50% of total cover: 20% of total cover: Hydrophytic Vegetation = Total Cover Present? 50% of total cover: _ 20% of total cover: Remarks: (If observed, list morphological adaptations below).

SOIL		Sampling Point
	needed to document the indicator or confirm (the absence of indicators.)
Depth Matrix	Redox Features	
unches) Color (moist) %	Color (maist) % Type Loc	1 exture Remarks
0-8 104R3/2		
8-13 104R 4th		
13-18 104R4/2		AND AND ADDRESS OF THE STATE OF
And the part of the state of th		
The second decrease and the second decrease and the second		
	The state of the s	The state of the s
The state of the s	THE PARTY AND ADMINISTRATION OF THE PROPERTY OF THE PARTY	With the state of
Type C-Capacitation D-Da-late- DM D		
Type C=Concentration D=Depletion RM=R Hydric Soil Indicators: (Applicable to all LF	educed Matrix, MS=Masked Sand Grains.	Location: PL=Pore Lining, M=Matrix.
Historica (A1)		Indicators for Problematic Hydric Soils ³ :
This is is piped on (A2)	Polyvalue Below Surface (S8) (LRR S. T, U)	
Black Histic (A3)	Thin Dark Surface (S9) (LRR S. T, U)	2 cm Muck (A10) (LRR S)
etydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (LRR P. S. T)
Organic Bodies (A6) (LRR P. T. U)	Redox Dark Surface (F.6)	Anomalous Bright Loamy Soils (F20) (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)	(0.000.00)
☐ Thirlk Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P, T)	Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present
Sandy Mucky Mineral (S1) (LRR O. S)	Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (Sf.)	Piedmont Floodplain Soils (F19) (MLRA 149)	
Stopped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Type		\searrow
Depth anches)		Hydric Soil Present? Yes No
Remarks	the state of the s	
	1910	
	No hydra	S 28 1/5 h
	101000000000000000000000000000000000000	JOHN STREET
	O	
		and the second s

wnah031_u



Upland data point wnah031_u facing east



Upland data point wnah031_u facing north

wnah031 soils



Wetland/upland soils

Project/Site: SERP City/County: MASH Sampling Date: Applicant/Owner: Downing Divestigator(s): State: Sampling Point: Sampling Point: Mandform (hillslope, terrace, etc.): Robon Ward Local relief (concave, convex, none): Concave Slope (%)	>= - I L
Section, Township, Range:	0 162
Section, Township, Range:	AHO:
Landform (hillslope, terrace, etc.): By Worn Ward Local relief (concave convex none): (1770 CLANA Slope (94	
):
Landform (hillslope, terrace, etc.): Bollom WAC Local relief (concave, convex, none): Concave Slope (% Subregion (LRR or MLRA): Lat: 35 53 50 39 Lbng: 77 59 36 790 "Datum:	
Soil Map Unit Name:NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed?	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 feature	4.
The inverse of the in	res, 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 No No No No No No No No No No No No	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minimum of two records)	equired)
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	ce (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)	1
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)	(C9)
Iron Deposits (B5)]
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):	
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	
Remarks:	
Remarks:	
Remarks:	

WNAHOZSĘ
Sampling Point:

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

ampling Po	oint:	

Troo Stratum (Plat size	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species	Status	Number of Dominant Species
1. Fraxenus pensy lumica 2. Overcus michaelici	읒는_	$-\frac{\mathcal{C}}{\mathcal{C}}$	FACH	That Are OBL, FACW, or FAC:(A)
3. Acor rubrum	33	-	FACW	Total Number of Dominant
	40		-FAC	Species Across All Strata: (B)
				Barret of Barrier 18
5			-	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	90	= Total Co	ver-	OBL species x 1 =
50% of total cover:		total cove		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1. Texopaca	15	/	FAC	FACU species x 4 =
2. Querius michaeexii	70	\mathcal{J}	PHEL	
3. Apr viewrum	15		FAC	Column Totals: (A) (B)
4. Fraxinees pensylvanica	10	$\overline{}$	FAM	
/ /			, , , , , , , , , , , , , , , , , , , 	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7 8		***************************************		2 - Dominance Test is >50%
0.	60			3 - Prevalence Index is ≤3.0¹
50% of total cover: 25	<u> </u>	= Total Co	ver . 10	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 23	20% of	total cover	:	
1. Phurma Felw Hmina	15	\ /	2/10/	¹Indicators of hydric soil and wetland hydrology must
	10		FACW	be present, unless disturbed or problematic.
2. Andragia grandoa	15	~	FACW	Definitions of Four Vegetation Strata:
3. Corea intuméscens	15	<u> </u>	FALW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Corex glaucescens	_5_		OBL	more in diameter at breast height (DBH), regardless of
5. Microstegien Viminea			FAC	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
12				noight.
	45	Total Cov	er 🔿	
50% of total cover: 27.6	20% of t	total cover	9	
Woody Vine Stratum (Plot size:				
1. Smeax returned toler	/\	V	FAC	
2. Vi diz rotundi Polia	10	1/	FAC	
3.				
4				
5.				
·	77			Hydrophytic
500/ - 64-44 ()		Total Cov	er 4	Vegetation Present? Yes No
50% of total cover:		otal cover:		100
Remarks: (If observed, list morphological adaptations below	').			
		·········		

WNAHOZSF_W

SOIL

Sampling Point:

Profile Description: (Describe to the de	pth needed to docun	nent the in	dicator	or confirn	n the absence of indicators.)
DepthMatrix	Redox	x Features			,
(inches) Color (moist) %	Color (moist)		Type ¹	Loc ²	Texture Remarks
0-8 (BYR3/2					SANGLOAM
8-16+104R4/2	104R4116	<u> 72</u>		M	SCC
			·····		
¹ Type: C=Concentration, D=Depletion, RN	1=Reduced Matrix MS	=Masked :	Sand Gra	aine	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	I LRRs, unless other	wise noted	d.)	41110.	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Bel		-	RR S. T. U	
Histic Epipedon (A2)	Thin Dark Sur				2 cm Muck (A10) (LRR S)
Black Histic (A3)	Loamy Mucky	Mineral (F	1) (LRR	0)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed	d Matrix (F	2)	•	Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Mati				Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S				(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, L Muck Presence (A8) (LRR U)					Red Parent Material (TF2)
1 cm Muck (A9) (LRR P, T)	Redox Depres Mari (F10) (LF				Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Och		MI RA 15	(1)	☐ Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Mangane				T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150	 A) Umbric Surface 	ce (F13) (L	RR P, T,	U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLR	(A 151)		unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vert				
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floo				
Dark Surface (S7) (LRR P, S, T, U)	Anomalous Br	ight Loam	y Soils (F	20) (MLR	A 149A, 153C, 153D)
Restrictive Layer (if observed):					
Туре:					Α ,
Depth (inches):					Hydric Soil Present? Yes No
Remarks:					Tryane don't resent tes No
	1				
		1			
	Aut	Inc	< 0	_ ()	DAG SOUTH
	· Pre	~ (C.		5	12 cesary
					V

wnah025f_w



Wetland data point wnah025f_w facing east



Wetland data point wnah025f_w facing south

Project/Site: SERP City/County: NASH Sampling Date: Sampling Date: Sampling Date: Sampling Date: Sampling Date: Sampling Date: Sampling Date: Sampling Point: NAH O Investigator(s): Section, Township, Range: Local relief (concave, convex, none): NAM O Slope (%): O C Subregion (LRR or MLRA): Lat: Soil Map Unit Name: NAM Classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland?	WETLAND DETERMINATION DATA	FORM – Atlantic and Gulf Coastal Plain Region
Applicant/Owner DALLOCY State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: Sampling Point State: State: Sampling Point State: State: Sampling Point State:	$\langle \alpha \rangle \langle \alpha \rangle \langle \alpha \rangle$	\approx 0 1/
Investigator(s): Description (Filipson (1975)) Section, Township, Range: Landform (hillstope, terrace, etc.): Lilium Lat: Lat: Lat: Lat: Lat: Lat: Lat: Lat:	Applicant/Owner: DOM W CON	State: NC Sampling Point WMHO
Landform (nillalope, terrace, etc.): Subregion (LRR or MLRA): Lat. La		Section Township Range:
Soli Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are "Normal Circumstances" present? Yes Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Welland Hydrology Present? Yes No Welland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Sufface Water (A1) High Water Table (A2) Hydropests (B1) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Water Marks (B1) Algali Kard Roll (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B3) Algal Mat or Crust (B4) In Indicators (B7) Water Salier (B4) In Indicators (B7) Water Salier	Landform (hillslope, terrace, etc.): 41/3 De	
No Gravitation Soil Activation Soil Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Activation Soil Activation Activation Activation Soil Activation Activation Activation Activation Soil Activation Activation Activation Soil Activation Activation Activation Soil Activation Activation Activation Soil Activation Activation Soil Activation Activation Soil Activation Activation Activation Soil Activation Activat		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Soil Map Unit Name:	
Are 'Normal Circumstances' present? Yes No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Surface Water (A1) Hydrophylic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Surface Soil Cracks (B6) Surface Water (A1) Hydrophylic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Depth (inches): Water Alarks (B1) Surface Water (A2) Saturation Visible on Aerial Imagery (B7) Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trin Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (C2) Incordation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Water Table (Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): W	Are climatic / hydrologic conditions on the site typical for this time of v	Par? Yes No. (If no explain in Formatic)
Are Vegetation	Are Vegetation, Soil, or Hydrology significantly	
Hydrophytic Vegetation Present? Hydric Soil Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Frimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Sufface Water (A1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Inno Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Hydrogen Sulfide Odor (C2) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C4) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Drift Deposits (B3) Hydrogen Sulfide Odor (C4) Drift Deposits (B3) Hydrogen Sulfide Odor (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Shallow Aquitard (D3) Hydrogen Sulfide Odor (C4) Dry-Season Water Table (C2) Crayfish Burrows (C8) Shallow Aquitard (D3) Hydrogen Sulfide Odor (C4) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Se		
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drinnage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water And Agauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Not all three forces	neters present
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Doxidized Rhizospheres along Living Roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Dry-Season Water Table (C2) Thin Muck Surface (C7) Dry-Season Water Table (C2) Thin Muck Surface (C7) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Remarks:	HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table (A2) Surface (B1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation (Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Secondary Indicators (minimum of two required)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation (A3) Warl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
Saturation (A3)	The second and the se	-Farrenty regordates contacts Contacts (DO)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)	Control (C)	
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Drift Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	The state of the s	The state of the s
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (C7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Pepth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	- Sadized Mizespi	
Algal Mat or Crust (B4)	Drift Deposits (B3)	=,(,
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Algal Mat or Crust (B4)	
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	onto (Enplain in)	Remarks)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	· · · · · · · · · · · · · · · · · · ·	☐ Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Surface Mater Daniel 19).
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches): No		· · · · · · · · · · · · · · · · · · ·
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation Present? Yes No Depth (inches	
Remarks: No Ly Drology present		os, previous inspections), if available:
No Ly Drology present	Remarks:	
	No Ly Drolog	y present

WNAHOZ5 - U

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

VEGETATION (Four Strata) – Use scientific nar		Sampling Point:			
Tree Stratum (Plot size:	Absolute	Dominant	Indicator	Dominance Test worksheet:	
1. Ocerum alm	% Cover			Number of Dominant Species	
	-40		FACU	That Are OBL, FACW, or FAC:(A)	
2. Liquidamper fyrarollace	4	\rightarrow	<u>LAC</u>	Total Number of Dominant	
3. Whorus phellos	10		EXCW	Species Across All Strata: (B)	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)	
6				That Are OBL, FACW, or FAC: (A/B)	
7				Prevalence Index worksheet:	
8				Total % Cover of: Multiply by:	
	KD.	= Total Cov		OBL species x 1 =	
50% of total cover: 25		- Total Cov	/er ?∑	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size:)	20% of	total cover	: 10	FAC species x 3 =	
1. Junes alata	10	. /	<u> </u>		
			TAY	FACU species x 4 =	
The state of the s	10	$-\!$	FACW	UPL species x 5 =	
3. They spacely	10	<u> </u>	FAC	Column Totals: (A) (B)	
4. Quarcus alla	10	<u> </u>	PALU	Prevalence Index = B/A =	
5	-				
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8	-			2 - Dominance Test is >50%	
	LID	Total Car		3 - Prevalence Index is ≤3.01	
50% of total cover: 20	200/ -44	Total Cov	er 🛠 📗	Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum (Plot size:)	20% 011	iotal cover:	$-\omega$		
1 Mis conclusion	1-11	\checkmark	h~	¹Indicators of hydric soil and wetland hydrology must	
1 Mizroskgium urminoa	70		EAC	be present, unless disturbed or problematic.	
2 Rubis argutis 3 Rhies malicans	$\frac{10}{10}$	***************************************	FAC	Definitions of Four Vegetation Strata:	
3 Rhus ondicans			FAC	Tree – Woody plants, excluding vines, 3 in (7.6 cm) or	
4.				more in diameter at breast height (DBH), regardless of	
5				height.	
6				Sanling/Shrub Woods aleate and the	
7				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	
10.				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 -				
"7×"		Total Cove	1 1		
50% of total cover:	_ 20% of to	otal cover:	12		
Woody Vine Stratum (Plot size:	75	I			
1. Smilax rotundifolic.	<u> </u>	-	PAC		
2. Parthonocussus gennauetoha	10		FAC		
3					
4					
5					
	477) -	Total Cove		Hydrophytic Vegetation	
50% of total cover: 20		otal cover:		Present? Yes No	
Remarks: (If observed, list morphological adaptations below		otal cover:			
Λ					
Roaderland	/	$\cdot \sim 1$			
Roadside edge		1110	seel 1	tel 1	
0				·	

WNA4025_U

SOIL

Profile Desc	crintion: /Describe	o the death						Sampling	g Point:
Depth	cription: (Describe t	o me depui				or confirr	n the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	ox Feature: %	sType ¹	Loc ²	Texture		
0-4	WYR41/3		<u> </u>		ype			Rer	marks
4-13	TAYRELL						Strolly	LODAMA	
17 . 144	-10/19/1/2						Stands	ylaron	
12 10	104K4/3						Stanle	Loan	
							l		
*****					*				
1	***************************************			-	-				
Type: C=Co	oncentration, D=Deple	etion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lining, M	1=Matrix.
	ndicators: (Applica	ble to all LR			-		Indicators	for Problematic H	lydric Soils³:
Histosol			Polyvalue Be	elow Surfac	ce (S8) (L l	RR S, T, L	J) 🛄 1 cm N	luck (A9) (LRR O)	
Black His	oipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)		luck (A10) (LRR S	
===	n Sulfide (A4)		Loamy Muck			0)	Reduce	ed Vertic (F18) (ou	tside MLRA 150A,B)
	Layers (A5)	-	Loamy Gley		-2)		Piedmo	ont Floodplain Soils	(F19) (LRR P, S, T)
	Bodies (A6) (LRR P,	T, U)	Redox Dark	٠,	6)			lous Bright Loamy	Soils (F20)
5 cm Mu	cky Mineral (A7) (LRI	R P, T, U)	Depleted Da					kA 153B) Irent Material (TF2)	,
	esence (A8) (LRR U)		Redox Depre					hallow Dark Surfac	
	ck (A9) (LRR P, T)	į	Marl (F10) (L	-RR U)				Explain in Remarks	
	Below Dark Surface	(A11) j	Depleted Oc	hric (F11) (MLRA 15	1)		,	-7
	rk Surface (A12)	<u> </u>	☐ Iron-Mangan	ese Masse	s (F12) (L	.RR O, P,	T) ³ Indica	ators of hydrophytic	c vegetation and
Sandy M	airie Redox (A16) (M I uck y Mineral (S1) (LF	LRA 150A)	Umbric Surfa	ace (F13) (L	RR P, T,	U)	wetl	and hydrology mus	st be present,
Sandy G	leyed Matrix (S4)	(K U, S) [Delta Ochric				unle	ss disturbed or pro	blematic.
	edox (S5)	1	Reduced Ver	rtic (F18) (ii Codolaio Se	VILKA 150	DA, 150B)	0.4.\		
	Matrix (S6)	†	Anomalous F	Bright Loam	nis (F 19) (nv Soils (F	(MLKA 14)	9A) A 149A, 153C,	4 <i>E</i> 2D)	
Dark Sur	face (S7) (LRR P, S,	T, U)		ziigiit Louii	ry Cona (i	20) (INCIV	A 149A, 193C,	1930)	
Restrictive L	ayer (if observed):				······································	····	T		· · · · · · · · · · · · · · · · · · ·
Туре:									\ /
Depth (inc	hes):						Hydric Soil I	Present? Yes	No.
Remarks:							Tryuno Con I	1630111 163_	
		N)	/	α	,			
		/	00/	les	Luz	c 4	202	2120	2ctt
		,	,	1			<u> </u>	1 - 2	
				V					

wnah025_u

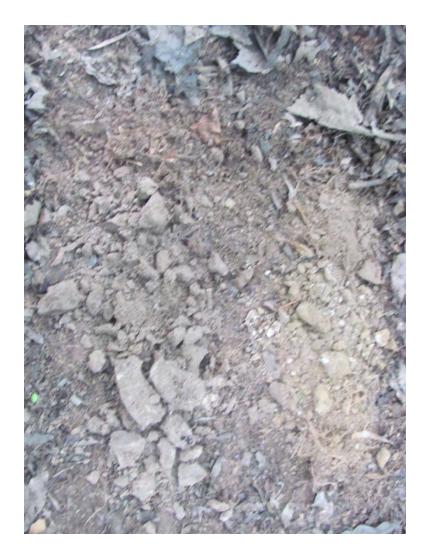


Upland data point wnah025_u facing east



Upland data point wnah025_u facing north

wnah025 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: Sampling Date: Sampling Point: WWA Investigator(s): ODWes Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): (ONLAVE Subregion (LRR or MLRA): 53'08.404 Long: 77'59' 49.366 Datum: 4256 Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes __ (If no, explain in Remarks.) ___, 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? is the Sampled Area Hydric Soil Present? No Yes _____ No ____ within a Wetland? Wetland Hydrology Present? No. Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology present

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

WNAGO10-f_W Sampling Point:____

_ 70	Absolute	Dominan	t Indicator	Dominance Test weekshoot
Tree Stratum (Plot size:)	% Cover	Species	Status	
1. Acer rubrum	25	1/	FAC	Number of Dominant Species
2. Ciniadendon felipitera	30			That Are OBL, FACW, or FAC:(A)
			FACU	Total Number of Dominant
3.	-			Species Across All Strata: (B)
4		-		(-/
5	-			Percent of Dominant Species 7 🔘
6				That Are OBL, FACW, or FAC: (A/B)
7	•			Prevalence Index worksheet:
7.	-			1
8				Total % Cover of: Multiply by:
	55	= Total Co	ver	OBL species x 1 =
50% of total cover 27.	20% of	total anyon]]	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30)	2070 01	total cove	·	FAC species x 3 =
1 Mana l'andian (Florisize:	100	. /		
1. Magnotia Virginiana		-	FACY	
2. Deer Nobium		__/	FAC	UPL species x 5 =
3. Crisidendron telipilisa	7		FACU	Column Totals: (A) (B)
1 4			***************************************	
			~~~	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
b				
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
	700			3 - Prevalence Index is ≤3.01
	_hashad =	Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	: <u></u>	(Explain)
Herb Stratum (Plot size:)		1		10.00
1. Microstegium vining	<		FAC	Indicators of hydric soil and wetland hydrology must
2. Frunding da greenten				be present, unless disturbed or problematic.
	 .		* HCW	Definitions of Four Vegetation Strata:
3. pachancia cylindrica		<u> </u>	FURW	Trop Monday wheats work if
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6.	-			
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb - All borbassays (non woods) - lands
9			-	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12				
	15 =	Total Cov	er	
50% of total cover: 7.5		otal cover:		
Woody Vine Stratum (Plot size:		/		
1 1/1 to C . to 10 D 10	20		m-,/	
- Hills power and the	<u>au</u> -	<u> </u>	FAC	
2. Campbil redicane	<u> </u>		FAC	
3. Smilax retund Nella	5		FAC	
4. Langues Gamics	3		FAC	
5.			S. J. Vanne	
· .	-7.			Hydrophytic
<u>.</u>		Total Cove	er l	Vegetation 🗸
50% of total cover: 17 6	5 20% of to	tal cover:	t.	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	· /).			<i>E</i>
, 5	· /·			

	٠	
50	ı	,
-	1	_

WN/4G010+_w Sampling Point:___

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of inc	icators.)	
Depth	Matrix		Redo	x Features	3			•	
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>	Remarks	
0-14	104R3/2	·	and the same of th				301		
	-			-					
				-					
								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				•					
¹Type: C=C	oncentration, D=Dep	letion RM=P	educed Matrix MI		010	•	2		
Hydric Soil	Indicators: (Application	able to all LR	Rs. unless other	o-iviasked	Sand Gra	ains.	Location: PL=P	ore Lining, M=Matrix	
☐ Histosol			Polyvalue Be			DD C T II		oblematic Hydric S	oils":
1	pipedon (A2)		Thin Dark Su	iface (S9)	(1 RR S	KK 5, 1, U T 111			
☐ Black Hi			Loamy Muck	v Mineral ((LIKK 3, 1	n, o, O)	2 cm Muck (A	tic (F18) (outside M	DA 150A D
	n Sulfide (A4)		Loamy Gleye	d Matrix (F	· · / (.2 · 2)	•,	Piedmont Flo	odplain Soils (F19) (LKA 15UA,B)
	Layers (A5)		Depleted Ma		ŕ		Anomalous E	right Loamy Soils (F	20)
Organic	Bodies (A6) (LRR P,	T, U)	Redox Dark				(MLRA 153		
Muck Dr	icky Mineral (A7) (LR esence (A8) (LRR U)	RR P, T, U)	Depleted Dar				Red Parent N		
1 cm Mu	ck (A9) (LRR D))	Redox Depre)			Dark Surface (TF12)
Depleted	Below Dark Surface	e (A11)	∐ Marl (F10) (L ☐ Depleted Och		MI DA 45	41	Other (Explai	n in Remarks)	
│	irk Surface (A12)		L I Iron-Mangane	ese Masse	s (F12) (I	RR O P 1	(a) Sindicators (f hudrophytia vozata	41mm mmd
Coast Pr	airie Redox (A16) (M	ILRA 150A)	Umbric Surfa	ce (F13) (L	-RR P. T.	O, F, 1 U)		f h <mark>y</mark> drophytic vegeta drology must b e pre	tion and
Sandy M	lucky Mineral (S1) (L	RR O, S)	Delta Ochric	(F17) (MLF	RA 151)	-,	unless dis	urbed or problemation	sent,
	leyed Matrix (S4)		Reduced Ver	tic (F18) (N	/ILRA 150	A, 150B)		or problemati	.
	edox (S5)	,	Piedmont Flo	odplain So	ils (F19) (MLRA 149	A)		
	Matrix (S6) face (S7) (LRR P, S,	T III	Anomalous B	right Loam	y Soils (F	20) (MLRA	149A, 153C, 153D		
	ayer (if observed):	, 1, 0)						N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Туре:	, (,	
	hes):						Under Call Day	V	
Remarks:							Hydric Soil Prese	it? Yes	No
					. 1		Λ		
			Hayloria	_ Ses		D10	Dioa		
)			1	V		
									İ
									[

wnag010f_w



Wetland data point wnag010f_w facing south



Wetland data point wnag010f_w facing west

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Applicant/Owner: Domini		City	/County:		Sometime Detect St. A. 19 77/
Applicant/Owner:	6N			State: N/C	Sampling Date: S AUAUST GE
Landform (hillslope, terrace, etc.): _ Subregion (LRR or MLRA):	Ala Siell		al rollof (conserve a serve		
Subregion (LRR or MLRA):			al relief (concave, convex,	none): <u> </u>	Slope (%): 2
Soil Map Unit Name:	Rains	Lat. <u></u>		1 37 77	268 Datum: <u>45% 0%</u>
Are climatic / hydrologic conditions of	on the site typical fo	or this time of year?	V	NWI classific	cation:
Are Vegetation, Soil	or Hydrology	of this time of year?			
Are Vegetation, Soil	or Hydrology	significantly disti			present? Yes No
SUMMARY OF FINDINGS -				xplain any answe	rs in Remarks.)
		,/	mpmig point locatio	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	_ No	Is the Sampled Area		
Wetland Hydrology Draggard			within a Wetland?	Yes	No
Remarks: 110 la \ \ \ \ \	res	No No			
Remarks: Upland duta	Your is	in an	active agricul	ture fiel	on).
			V		
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one	is required; check	all that apply)	<u>:</u> !		tors (minimum of two required)
Surface Water (A1)		atic Fauna (B13)		Surface Soil	
High Water Table (A2)		Deposits (B15) (LR	R (I)		letated Concave Surface (B8)
Saturation (A3)		rogen Sulfide Odor (Drainage Pat	
│			along Living Roots (C3)	Moss Trim Li	
Sediment Deposits (B2)	Pres	ence of Reduced Iro	on (C4)	Crayfish Burr	Water Table (C2)
☐ Drift Deposits (B3)		ent Iron Reduction in			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	\(\frac{1}{2}\)	Geomorphic I	
Iron Deposits (B5)	☐ Othe	er (Explain in Remark	ks)	Shallow Aquit	
Inundation Visible on Aerial Ima	agery (B7)		Í	FAC-Neutral	. ,
Water-Stained Leaves (B9)			Ţ		oss (D8) (LRR T, U)
Field Observations:					
		Depth (inches):			
Water Table Present? Yes		Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No	Depth (inches):	•	drology Present	? Yes No
Describe Recorded Data (stream ga	uge, monitoring we	ell, aerial photos, pre			
	v	, , , , , , , , , , , , , , , , , , , ,	Trodo mopociono, n avalla	ibie.	
Remarks:					
λι		f	\cap		
10	a hielo	Joe. 41 0	nescul		
	7	TO TO V	and Comment		
		J.			

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: WN 16010 U Absolute Dominant Indicator Tree Stratum (Plot size: _____) Dominance Test worksheet: % Cover Species? Status 1. None Present Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover 50% of total cover: _____ 20% of total cover: ____ OBL species _____ x 1 = ____ FACW species _____ x 2 = _____ Sapling/Shrub Stratum (Plot size: _____) FAC species _____ x 3 = _____ 1. None Present FACU species _____ x 4 = _____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 _____ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: ____ 20% of total cover: ___ Herb Stratum (Plot size: 30) 1. Glycine may ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 10._____ 11. Woody vine - All woody vines greater than 3.28 ft in 100 = Total Cover 50% of total cover: __ Woody Vine Stratum (Plot size: 1. None gresent Hydrophytic ____ = Total Cover Vegetation 50% of total cover: ____ ___ 20% of total cover: __ Present? Yes _____No Remarks: (If observed, list morphological adaptations below).

Profile Des	cription: (Describ	e to the dan	th nooded to de-					Sampling Poir	nt: <u>WNAG<i>olO</i> .</u>
Depth	Matrix	o to the dep	th needed to docur	nent the inc	dicator	or confirm	n the absence of	indicators.)	****
(inches)	Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	_	
<u> </u>	101R3/2	_100			· ype		rexture	Remarks	
8-20	1012-1/1	90	10185/2						
		 			pu.		<u> </u>		

¹Type: C=C	Oncontration D. D.								
Hydric Soil	Indicators: (Appli	pletion, RM=	Reduced Matrix, MS RRs, unless other	=Masked S	and Gra	ins.	² Location: PL=	=Pore Lining, M=Mat	rix.
Histosol	(A1)	cable to all i					Indicators for	Problematic Hydric	: Soils³:
	pipedon (A2)		Polyvalue Bel	ow Surface	(S8) (LI	RR S, T, U) 📙 1 cm Muck	(A9) (LRR O)	
🔲 Black Hi	stic (A3)		Thin Dark Sur Loamy Mucky	Tace (S9) (L	.RR S, 1	Γ, U)	2 cm Muck	(A10) (LRR S)	
Hydroge	n Sulfide (A4)		Loamy Gleyed	d Matrix (F.)) (LKK	0)	Reduced V	ertic (F18) (outside	MLRA 150A,B
Stratified	Layers (A5)		Depleted Matr	rix (F3)	,		Anomalaus	Floodplain Soils (F19) (LRR P, S, T)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark S	urface (F6)			(MLRA 1	Bright Loamy Soils	(F20)
Muck Pr	icky Mineral (A7) (L . esence (A8) (LRR L	RR P, T, U)	Depleted Dark	Surface (F	7)		Red Parent	t Material (TF2)	
1 cm Mu	ck (A9) (LRR P, T)	<i>)</i>	Redox Depres	ssions (F8)			☐ Very Shallo	w Dark Surface (TF	12)
Depleted	Below Dark Surfac	e (A11)	Marl (F10) (LF	RR U)			Other (Expl	lain in Remarks) `	•,
Thick Da	rk Surface (A12)		Depleted Ochi	ric (F11) (IVII se Masses (LRA 15	1) 55 0 0 0	 2.		
Coast Pr	airie Redox (A16) (I	MLRA 150A	Umbric Surfac	se Masses (se (F13) (LR	(F12) (L RP T	KK O, P, '		of hydrophytic vege	etation and
Sandy M	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric (F	F17) (MLRA	151)	0,	wetland	hydrology must be p	resent,
Sandy G	leyed Matrix (S4) edox (S5)		Reduced Verti	c (F18) (ML	RA 150	A, 150B)		isturbed or problema	atic.
Stripped	Matrix (S6)		Piedmont Floo	dplain Soils	(F19) (F	MLRA 149	PA)		
Dark Sur	face (S7) (LRR P, S	T 10	Anomalous Bri	ight Loamy s	Soils (F	20) (MLR A	149A, 153C, 153	D)	
Restrictive L	ayer (if observed):	,, ,, 0,							
Type:									,
Depth (inc	hes):						11.11.5.05	L'EL	\sim
Remarks:							Hydric Soil Pres	ent? Yes ***	No
	/ N		ĺ		300	\bigcirc		\wedge	
	10	O	hydric	, 0	de la companya del companya de la companya del companya de la comp	1/0		7-1-	
			(0)411	- >	0	X 1.	2 CL DL	N	
			***************************************			ţ		***	

wnag010_u



Upland data point wnag010_u facing east



Upland data point wnag010_u facing north

wnag010 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: NOSh Sampling Date: \$15/H
Applicant/Owner: OOM: 0100	State NC Sampling Point: Whao 012 f
Investigator(s) ESI (IK. MUYPhrey)	Section, Township, Range NA
Landform (hillslope, terrace, etc.): + (A+	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0-2</u> 872.0H Long: <u>78.99.675</u> Datum: <u>W65.8</u>
Soil Map Unit Name: Rains Sandy Luam	NWI classification: PFO
Are climatic / 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	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No	Is the Sampled Area within a Wetland? YesNo
2 inches OF rain 8/1-81	/2
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B' High Water Table (A2) Marl Deposits (B1) Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizospl Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in I	Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) heres along Living Roots (C3) Dry-Season Water Table (C2) ced Iron (C4) Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) e (C7) Geomorphic Position (D2)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Yes No Depth (inchest) Yes No Depth (inchest)	s): 720" S): 720" Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photestate) Remarks:	ius, previous inspections), ii available.

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

Tree Stratum (Plot size: 30'X30')	and the second second second		nt Indicator	Dominance Test worksheet: Number of Dominant Species
1. Pinus toreda	50	<u>y</u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Liriodendron tulipifera 3.	5	N	FACU	Total Number of Dominant Species Across All Strata: (B)
4		-		Species Actoss Ail Strata.
				Percent of Dominant Species That Are ORL FACW or FAC
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8				OBL species x 1 =
		= Total C		FACW species x 2 =
50% of total cover: 27.	5 20% of	total cove	er: 11	
Sapling/Shrub Stratum (Plot size: 30 1 × 30 1)				FAC species x 3 =
1. Liriodendron + unipifera	5	Y	FACU	FACU species x 4 =
2. Liquidambar Sturacifica	5	1/	FAC	UPL species x 5 =
3. Ligustrum sinense	2	1	FAC	Column Totals: (A) (B)
		-	17.0	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6		-		Rapid Test for Hydrophytic Vegetation
7		-		2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co	-	Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20% of	f total cove	er: _ d_	
Herb Stratum (Plot size: 30'×30')				¹ Indicators of hydric soil and wetland hydrology must
1. Woodwardia areclata	10	Y	OBL	be present, unless disturbed or problematic.
2. Athurium asplenioides	5	Y	FAC	Definitions of Four Vegetation Strata:
3. Microstegium vimineum		N	FAC	
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
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.				
	17	= Total C	over	
50% of total cover: %	5 20% 0	f total covi	er 3.4	
Woody Vine Stratum (Plot size: 30'x30')			-	
1. Smilax votandifolia	5	V	TAC	
1. Striffer (Didition of the		-/-	1110	
2				
3		-		
4		_		
5				Hydrophytic
	5	= Total C	over	Vegetation
50% of total cover: 2,	5 20% 0	f total cov	er: _ \	Present? Yes No
Remarks: (If observed, list morphological adaptations bel	2000	34767		
The market (11 observed, 11st marphaes) and adaptations are	,.			
				E .

Profile Des	cription: (Describe t	to the dept	h needed to docum	ent the I	ndicator	or confirm	n the absence	of Indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type	Loc ²	Texture	Remarks
0-5	104R3/1		COIO (IIIOSI)		- 1 1 1 1	An	FSL	
5-12	10 VR 6/2	68	101/84/2	30	0	M	SL	
7 10	10 11-012		104R4/6	2	-	PL	SL	
17-20	+104R6/2	65	IDVRS/4	5	C	M	SL	THE STREET STREET
12 10	10 10012	0)	10 VR 4/2	30	0	M	SL	
		-	1041 112	50		-111		
	-							
1T C-C			Dadward Matrix MC	-Maskad		ine	21 postion:	PL=Pore Lining, M=Matrix.
	oncentration, D=Depl Indicators: (Applica					anis.		for Problematic Hydric Soils ³ :
Histoso	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN		Polyvalue Bel			RR S, T, L		fluck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark Sur	face (S9)	(LRR S,	T, U)	2 cm M	luck (A10) (LRR S)
Property Control of the Control of t	listic (A3)		Loamy Mucky			0)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Doniet of Man		F2)		The state of the s	ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR P,	T III	Depleted Mate	and the same of the same of	6)		SIPPLE EPOPE QUITE	lous Bright Loamy Soils (F20)
The second secon	ucky Mineral (A7) (LR	AND ASSESSMENT OF THE PARTY OF	Depleted Dark	TOTAL STREET			A STATE OF THE STA	arent Material (TF2)
	resence (A8) (LRR U)	Redox Depre	ssions (F	8)		Very S	hallow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (LI	The state of the state of the state of			Other (Explain in Remarks)
to the second se	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Och		The property of the party of the		T) 3India	ators of hydrophytic vegetation and
The second second second second	Prairie Redox (A16) (N	ILRA 150A	The state of the s		The State of the S	CONTRACTOR OF THE PARTY OF THE	The second secon	and hydrology must be present,
The state of the s	Mucky Mineral (S1) (L		Delta Ochric (and the second second			ess disturbed or problematic.
Sandy	Gleyed Matrix (S4)		Reduced Vert	CONTRACTOR OF STREET				
Constitution, a little	Redox (S5)		Piedmont Flo	The state of the s	Mary Mary Mary	The second second	the state of the s	
The second secon	d Matrix (S6) urface (S7) (LRR P, S	T 10	Anomalous B	right Loar	ny Soils (i	-20) (MLR	RA 149A, 153C,	, 1530)
	Layer (If observed):							
Туре:								
V 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	ches):						Hydric Soil	Present? Yes No
Remarks:						100		
1000								

Environmental Field Surveys Wetland Photo Page



Wetland data point wnao012f_w1 facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Applicant/owner: Dominion Investigator(s) Est S. MURONO Investigator(s) Est S. MURONO Section, Township, Range NA Loadform (hilslope, terrace, etc.) Earth Loadform (hilslope, terrace, etc.) Earth Subregion (LRR or MLRA): ERR P Lat 35, 8736 Long 16, 976 Now (If no, explain in Remarks.) NWI classification: NA Are Vegetation Soil or Hydrology is significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation Soil or Hydrology Insulation significantly disturbed? Are Vegetation	State: N Sampling Point WAD (2) (s) EST S. MURPNEL Section, Township, Range NA Local relief (concave, convex, none): 1000 Not classification: NA Not classification: Na Not classification: Nation Not classification: Nation Not classification: Nation Not classification: Nation Not classification: Na	State: N Sampling Point WANDURANDURANDURANDURANDURANDURANDURANDUR	Applicant/owner: DOMINO State No Sampling Point: NACOUL Investigator(s): EST S. MURCYCL Section. Township, Range: NA Slope (%) Datum: NES Subregion (LRR or MLRA): LRR or MLRA: Lat: 35, 873 6 Long 76, 9670 Datum: NES Soil Map Unt Name: Roand or MIVI classification: NA NVII classification: NA	Project/Site: ACP	City/County:	Nash	Sampling Date: 8/5/14
Section Township Range: NA Landform (hillslope, terrace, etc.) FLA+ Local relief (concave, convex, none): None Slope (%) Consumer of National Research Solid Map Unit Name: Round Solid Map Unit Name: Round Solid Map Unit Name: Round Solid Map Unit Name: Round Solid Consumer of National Research Solid Consumer of National Resear	Section, Township, Range: Local relief (concave, convex, none): 1000 Slope (%) 0-2 Latt 35, 873/6 Long-78-9670 Datum: NGSE Int Name: Range: NAMI classification: NAMI classifi	Section Sect	Section Township Range NA	Applicant/Owner: DOMINION		State: N	Sampling Point Whap 012
Landform (hillslope, terrace, etc.) Lat: 35, 8726 Long: 78, 9, 90 Datum: NES Soli Map Unt Name: Roring Son Map United Son Ma	LRR or MLRA): LRR Lat: 35, 872/6 Long—78, 9670 Datum: It Name: Round Sandy Load Long—78, 9670 Datum: It hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) It no, soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) RY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. ic vegetation Present? Yes No Version Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Water (A1) Sparsely vegetated Concave Surface (B8) Alaton (B1) Alaton	Lat 35 6 7 10 Cangler (Analytic Concave, convex, none): No. 2 Slope (%) 2 Slop	Landform (hillslope, terrace, etc.) Lat: 35, 87216 Long 1870 Datum: MSS Soil Map Unt Name: Rocinos Son Communication (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 Wetland Hydrology Present? Yes No Wetland Hydrology Indicators: Primary Indicators (iminimum of one is required, check all that apply) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Hydrophytic Vegetation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Soil Cracks (C2) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Dry-Season Water Table (C2) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Staturation Visible on Aerial Imagery (C0) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Position Deposits (B5) Sphagnum moss (D8) (LRR T, U) Position Deposits (B5) Sphagnum moss (D8) (LRR T, U) Position Deposits (B5) Sphagnum moss (D8) (LRR T, U) Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Depth (inches): Natural Hydrology Present? Yes No Dept	Investigatoria: EST - IS, MURPHYELI	Section Tour		
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Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): NO D	-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)	Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): 2016 Saturation Present? Yes No Depth (inches): 2016 Wetland Hydrology Present? Yes No Depth (inches): 2016	Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): VA Saturation Present? Yes No Depth (inches): Ves No Depth (inc		Explain in Remarks)		
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Pomarks:	ater Present? Yes No Depth (inches): 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Remarks:	Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No De Water Table Present? Yes No De Saturation Present? Yes No De (includes capillary fringe)	epth (inches):	Sphage	num moss (D8) (LRR T, U)
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	I de la companya del la companya de		Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present? Yes No De	epth (inches): 7201	Wetland Hydrology P	resent? Yes No
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The state of the s	50	∨		Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (A) (B)
3			A DESCRIPTION OF THE PERSON OF	
4				Species Across Air Strata.
6				CAN
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	60 :	= Total Co	ver	OBL species x 1 =
50% of total cover: 30				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 301X301)	1.0		FAC	FAC species x 3 = FACU species x 4 =
1. Liquidambar Stylaciflua	6	X	FAC	UPL species x 5 =
2. ILEX OPACA 3.	2	-/-	THE	Column Totals: (A) (B)
4.	70.5			Prevalence Index = B/A =
5	100			Hydrophytic Vegetation Indicators:
6.				
7	_	-h()		2 - Dominance Test is >50%
8.	15	= Total Co		3 - Prevalence Index is ≤3.01
50% of total cover: 7.5	20% of	total cove	5	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 301 X301)				¹ Indicators of hydric soil and wetland hydrology must
1. Microstegium vimineum	10	Y	FAC	be present, unless disturbed or problematic.
2. Cyperus sp.	2	N	NA	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			10,000	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				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.	-	1000		
		= Total Co	1.	
50% of total cover:	20% of	total cove	1: 2.7	
Woody Vine Stratum (Plot size: 301×301) 1. Gelsenium Sempervirens	1(7	V	FAC	
2	-	-/-		
3.				
4.	Marine 1	Die M.		
5.				Hydrophytic
	Contract of the	= Total Co	1	Vegetation Present? Yes No
50% of total cover:S	20% of	total cove	r	Present resNO

Depth	ription: (Describe t Matrix			Feature				
(inches)	Color (moist)	_%	Color (moist)	%	Type	_Loc2	Texture	Remarks
0-8	104R3/2	100					FSL	
8-12	104R4/3	90	104R3/2	10			FSL	
2-20	1048<16	100					SL	
00	10/1-3/6	100						
	oncentration, D=Deple ndicators: (Applica					ains.		L=Pore Lining, M=Matrix. or Problematic Hydric Solls ³ :
Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy N Sandy G Sandy R Stripped	ipedon (A2)	R P, T, U) (A11) (ILRA 150A) RR O, S)	Delta Ochric Reduced Veri Piedmont Flo	face (S9 Mineral Matrix (F3) Mineral Matrix (F3) Mirix (F3) Mirix (F14) Mirix (F14) Mirix (F15) Mirix (F16) Mirix (F17) Mirix (F18) Mirix	(MLRA 1: (F1) (LRR 5; (F2) (F2) (F7) (F7) (MLRA 1: (ERR P, T LRA 151) (MLRA 15 (MLRA 15	T, U) 51) LRR O, P, , U) 0A, 150B) (MLRA 14	2 cm Mu Reduced Piedmon Anomalo (MLRA Red Pare Very Sha Other (E: T) 3Indicat wetlar unles	ck (A9) (LRR O) ck (A10) (LRR S) I Vertic (F18) (outside MLRA 150A,B t Floodplain Soils (F19) (LRR P, S, T ous Bright Loamy Soils (F20) a 153B) ent Material (TF2) allow Dark Surface (TF12) explain in Remarks) ors of hydrophytic vegetation and out hydrology must be present, s disturbed or problematic.
	ayer (If observed):	, ., -,						
	ches):						Hydric Soil P	resent? Yes No

Environmental Field Surveys Wetland Photo Page



Upland data point wnao012_u1 facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: NASh Sampling Date: 8/5/14 State: NC Sampling Point: What What District Sampling Point: What District Sampling Po Project/Site: ACP Applicant/Owner: Dominion Investigator(s): EST-K, MURPHYEY Section, Township, Range: N A Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0-2 Subregion (LRR or MLRA): LRR P Lat: 35. 8780H Long: -77. 99879 Datum: W658 Soil Map Unit Name: Rains Sondy Loan NWI classification: PFO No (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes 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? 2 inches of rain 8/1-8/2 HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) ___ Aquatic Fauna (B13) __ Surface Water (A1) __ High Water Table (A2) ___ Marl Deposits (B15) (LRR U) __ Drainage Patterns (B10) ___Hydrogen Sulfide Odor (C1) __ Moss Trim Lines (B16) __ Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2) __ Water Marks (B1) __ 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) ___ Algal Mat or Crust (B4) Geomorphic Position (D2) Other (Explain in Remarks) Iron Deposits (B5) Shallow Aguitard (D3) 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): NA Yes Depth (inches): 201 Surface Water Present? Water Table Present? No Depth (inches): 7201 Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Tree Stratum (Plot size: 301×301) 1. Liviodent van tulipisera 2. Pinus taeda 3. Liquidambar styracistua 4.	5 10	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B)
5	35	= Total Cox		Percent of Dominant Species 47.5% (A/B) Prevalence Index worksheet:
1. Magnolia Vilginiana 2. Ilex OPACA 3. Liquidambar Styraci Fluo	15	Y Y N	FACW FAC FAC	FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
4. Clethra alnifolia 5.	5	2	FACW	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 Rapid Test for Hydrophytic Vegetation
7	35	= Total Co	/er	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 301×301) 1. Athyrium asplenioides 2. Polystichium acrostichoides 3. Asplenium plotyneurun	7 5 2	× ~ ~	FACU FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
4 Woodwardia arestata 5 Microstegium Vinineum 6.	7	À	PAC	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
7			_	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10			_	Wandy vine - All woody vines greater than 3.28 ft in height.
50% of total cover: 15 Woody Vine Stratum (Plot size: 301×301) 1. 5milox (Plot size: 301×301) 2. 3.	5 20% of	f total cover	FAL	
4, 5	. /	= Total Cov	1	Hydrophytic Vegetation Present? Yes No

Color (moist) % Color (moist) % Type Loc Texture Remarks	Depth	Matrix		Redox	Feature	s			
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Coastion: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Solis?: Indicators for Problematic Hydric Solis Matrix. Indicators for Problematic Hydric Solis?: Indicators for Problematic Hydric Solis?: Indicators for Problematic Hydric Solis Matrix. Indicators for Problematic Hydric Solis For Problematic Hydric Solis For Problematic Hydric Hydric Solis For Problematic Hydric Hydric Hydric Hydric Hydric Hydric Solis For Problematic Hydric	(inches)			Color (moist)	%	Type	Loc		Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Potyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Pepleted Matrix (F2) Pedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Dark Surface (F6) (MLRA 153B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Redox Bright Loamy Soils (F20) 1 cm Muck (A9) (LRR P, T) Pepleted Dark Surface (F7) Redox (A9) (LRR P, T) Depleted Dark Surface (F7) Redox Dark Surface (F7) Poteled Below Dark Surface (T12) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Operation of the Construction o	0-17	104R3/1							
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	2-20	104R6/2	93	104R4/1	5	D	M	SL	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				104R416	2	C	PL	SL	
Histosol (A1)				10 411 170					
emarks:	Histosol Histosol Histic E Black H Hydroge Stratifie Organic 5 cm Me Muck Pe 1 cm Me Deplete Thick D Coast P Sandy N Sandy N Stripped Dark Su Restrictive Type: Depth (in	Indicators: (Applications: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P. Jucky Mineral (A7) (LFR P. Juck (A9) (LRR P., T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (Mucky Mineral (S1) (IFR P.) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR P., S. Layer (If observed):	able to all , T, U) RR P, T, U) l) e (A11) MLRA 150A LRR O, S)	Reduced Matrix. MS LRRs, unless other Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyer Pepleted Matrix Redox Dark Sur Redox Depreted Dark Redox Depreted Dark Redox Depreted Och Iron-Mangane Umbric Surfar Delta Ochric (Reduced Verf	wise not low Surface (S9 / Mineral d Matrix (F3) Surface (F6 k Surface ssions (F RR U) hric (F11) ese Mass ce (F13) (F17) (MI tic (F18) (odplain S	ed.) (ce (S8) (L) (LRR S, (F1) (LRR (F2) (F6) ((F7) (8) (MLRA 1: (ses (F12) ((LRR P, T LRA 151) (MLRA 15 Coils (F19)	RR S, T, L T, U) O) S1) LRR O, P, , U) 0A, 150B) (MLRA 14	Indicators for I I cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1 Red Parent Very Shallo Other (Expl T) 3Indicators wetland unless c	Problematic Hydric Solls ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,E cloodplain Soils (F19) (LRR P, S, T Eright Loamy Soils (F20) Material (TF2) ow Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
	Remarks:								

Environmental Field Surveys Wetland Photo Page



Wetland data point wnao012f_w2 facing southwest.

Project/Site / \	City	Vicquity Nash	Sampling Date: 8/5/		
Project/Site: ACP Applicant/Owner: Dominion		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	State: NC Sampling Point: WNADO		
Investigator(s): EST - 15 MUYE	hrey so	ction Township Dange	NA		
			none): CONVEX Slope (%): 2		
Landform (hillslope, terrace, etc.):	025 %	7 % 1%	77.99878 Datum: W65		
		Long:			
Soil Map Unit Name: RainS So	oncy Loam		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 Hy	drology significantly dis	turbed? Are "Norma	Il Circumstances" present? Yes No		
Are Vegetation, Soil, or Hy	drology naturally proble	ematic? (If needed,	explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Atta	ach site map showing sa	ampling point location	ons, transects, important features,		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No No Yes No No Yes No	Is the Sampled Area within a Wetland?	Yes No		
HADBOLOGA					
HYDROLOGY			Secondary Indicators (minimum of two require		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re	guired shock all that apply)				
Surface Water (A1)	Aquatic Fauna (B13)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)		
High Water Table (A2)	Marl Deposits (B15) (L	RR III			
Saturation (A3)	Hydrogen Sulfide Odo		Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizosphere		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced		Crayfish Burrows (C8)		
Drift Deposits (B3)	Recent Iron Reduction	in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)Geomorphic Position (D2)		
Algal Mat or Crust (B4)	Thin Muck Surface (C	7)			
Iron Deposits (B5)	Other (Explain in Rem	arks)	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:	_ No Depth (inches): _	NA			
	No Depth (inches):	72011			
Water Table Present? Yes Saturation Present? Yes	No Depth (inches):		Hydrology Present? Yes No		
(includes capillary fringe)	No Deptil (inches)	vetiand	nydrology Fresentr Tes No		
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, p	previous inspections), if av	ailable:		
Remarks:					

29/22/1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 201×301)	% Cover	Species	Status	Number of Dominant Species
1. Liquidambar Styracistua	10		FAC	That Are OBL, FACW, or FAC: (A)
2. Liviodection tulififera	20	4	FACU	Total Number of Dominant
3.	A North		THE PERSON	Species Across All Strata: (B)
4.				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 67 % (A/B)
6.				That Are OBL, FACW, or FAC: (A/B)
			-	Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
8	00			OBL species x 1 =
		= Total Co		FACW species x 2 =
50% of total cover: 15	20% of	total cove	r. 6	The best like a begin the an experience of the little of the second of the little of t
Sapling/Shrub Stratum (Plot size: 20 'X30')				FAC species x 3 =
1. Liquidambor Stylecisium	10	Y	FAC	FACU species x 4 =
2. Magnoria Vivainiana	5	Y .	FACW	UPL species x 5 =
3. Liquistrum sinense	2	N	TAC	Column Totals: (A) (B)
4.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.	1			1_ Rapid Test for Hydrophytic Vegetation
7.	Almost Section			2 - Dominance Test is >50%
8.	W-Ac	10.370	Burnelly 13	3 - Prevalence Index is ≤3.01
	17	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 2	5 20% of	total cove	- 3H	Problematic Plydrophlytic Degetation (Explain)
Herb Stratum (Plot size: 20' K30')				
1. A SPIENIUM PLOHYNEULUM	5	Y	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		1/	FAC	The state of the s
2. Microstegium vimineum		- /		Definitions of Four Vegetation Strata:
3. Parthenocissus quinquesolia	_ >_	4	FACU	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.			TO LA	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 3.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12.		141		
	20	= Total Co	ver	
50% of total cover:		f total cove		
Woody Vine Stratum (Plot size: 201 x301)			WE FOR	
1. Ionicera Japonica	<	N	TAC	
	10	M	FAC	
2. VItis rutundisolia	10	-1	-111	
3. Vitis aestivalis	3	14	FACU	
4. Toxicodendrun vodicans	10	1	FAC	
5.		/		Hydrophytic
	30	= Total Co	ver	Vegetation
50% of total cover: _\S		f total cove		Present? Yes No
Remarks: (If observed, list morphological adaptations bel	A 0.00 P. C. C. C.			
Remarks. (II observed, list morphological adaptations ber	OW).			



Upland data point wnao012_u2 facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Nash Project/Site: _ACP Applicant/Owner: Dominion Section, Township, Range: NA Investigator(s): ESI & L ROSEV Landform (hillslope, terrace, etc.): avoir age Local relief (concave, convex, none): VO Subregion (LRR or MLRA): L & & ___ Long: -フフ,99858 Soil Map Unit Name: RAINS Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) figh Water Table (A2) Seturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Cravfish Burrows (C8) 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) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Igundation Visible on Aerial Imagery (B7) 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? Saturation Present? Yes ____ No ____ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Abootuse	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30)		Dominant Species?		
		Species?		Number of Dominant Species That Are OBL. FACW. or FAC: (A)
1. Acer rubnm	<u> </u>	<u>Y</u>	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
l 🛕 '	_			
				Total Number of Dominant Species Across All Strata: (B)
3				Species Across All Strata: (B)
4				
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	75	= Total Cov	·or	OBL species x 1 =
	<u>ر</u>	- 10(a) C0\	/ei	FACW species x 2 =
50% of tot <u>al</u> cover: 12	📤 20% of	total cover	:_5_	
Sapling/Shrub Stratum (Plot size: 30 x 30)				FAC species x 3 =
Sapiniqualitud Stratum (Flot size.	9-	Ú	P7 10 PM	FACU species x 4 =
1. Liquistrum Sinense	<u> </u>	_1_	<u> FAC</u>	
1 _ ()		•		UPL species x 5 =
				Column Totals: (A) (B)
3				
4				Dravalance Index = D/A =
				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
	20	= Total Co		
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cover	: <u> </u>	
	_			1
Herb Stratum (Plot size: 30 x 50)	1		الممرس	¹ Indicators of hydric soil and wetland hydrology must
1. Wisteria frutescens	<u> </u>	Y	FACW	be present, unless disturbed or problematic.
2. Arundinaria aigantea	20	Y	FACW	Definitions of Four Vegetation Strata:
		-		
3. Saururus cerhous	<u> 10 </u>		<u>DBL</u>	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4		•		more in diameter at breast height (DBH), regardless of
l .				height.
5				TICIBIL.
6				Sapling/Shrub - Woody plants, excluding vines, less
1				than 3 in, DBH and greater than 3.28 ft (1 m) tall.
7	-			than 5 m. Dort and greater than 5.20 it (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
		· 	. —	of size and woody plants loss than 2.29 ft tall
9				of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9				of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9				of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in
9	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height.
9	45 15 15 15	= Total Co f total cove	PAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15	= Total Co f total cove	PAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic
9	45 15 15 15 15 15	= Total Co f total cove	Ver r: 9 FAC FAC	of size, and woody plants less than 3.28 ft tall. Woody vine All woody vines greater than 3.28 ft in height. Hydrophytic

	ription: (Describe	to the dep				or confirm	the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	<u>S</u> _Type ¹	_Loc²	Texture	Remarks
0-2-	10 7/2 3/1	100					SL	
2-10	10/12/1	96	104R-416	- 		\overline{M}	. ـــا	
1300	100 11 11	1 6	10 10					
					- ——		 .	
		. ——						
	oncentration, D=Dep					ains.	² Location: 1	PL=Pore Lining, M=Matrix.
	Indicators: (Applic	able to all			•			for Problematic Hydric Soils ³ :
☐ Histosol	(A1) pipedon (A2)		Polyvalue B Thin Dark S					uck (A9) (LRR O) uck (A10) (LRR S)
_	stic (A3)		Loamy Muc					ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Lgamy Gley			-,		int Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	atrix (F3)				lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	•	•			A 153B)
_	ucky Mineral (A7) (LF							rent Material (TF2) nallow Dark Surface (TF12)
_	resence (A8) (LRR U uck (A9) (LRR P, T)	''	Redox Depr		0)			Explain in Remarks)
=	d Below Dark Surfac	e (A11)	Depleted O	•	(MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-Manga	nese Mass	ses (F12) (LRR O, P,	-	ators of hydrophytic vegetation and
_	rairie Redox (A16) (I					, U)		and hydrology must be present,
=	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochrid			OA 450D\		ss disturbed or problematic.
=	Gleyed Matrix (S4) Redox (S5)		Reduced Ve		-	-		
	Matrix (S6)			-		-	ол, A 149A, 153C,	153D)
∏ Dark Su	rface (S7) (LRR P, S							
Restrictive	Layer (if observed):	:						
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No No
Remarks:								
•							,	•
	0-11	/ ·	1 -					1
Wat	er filli	ng r	roie, c	ouk	e v	ot	evan	ate below
		\cup						_
	16 inch	处						
		_						
								•



Wetland data point wnap004f_w facing southwest.

Project/Site: ACP	City/County: No.5h	Sampling	Date: 9/4/14
Applicant/Owner: Dominion		State: NL Sampling	Point: Whap 004-
Investigator(s): EST (L Roper)	Section, Township, Range: _		
Landform (hillslope, terrace, etc.):		r, none): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Slope (%): 10-4
Subregion (LRR or MLRA): LRRP Lat: 35	86953 Long:	77,99854	Datum: W&SS
Soil Map Unit Name: Palns fine Sand	, loam	NWI classification:	NA
Are climatic / hydrologic conditions on the site typical for this time of y	,		14.1
		al Circumstances" present?	/os / No
Are Vegetation, Soil, or Hydrology significantl			
Are Vegetation, Soil, or Hydrology naturally p	oblematic? (If needed,	, explain any answers in Rema	arks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locati	ions, transects, import	ant features, etc.
Hydrophytic Vegetation Present? Yes No	1-401-4		,
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	Yes No	
Wetland Hydrology Present? Yes No	. Within a Wetland?	res 140_	
Remarks:	· · · · · · · · · · · · · · · · · · ·		
	•		
HYDROLOGY			
HYDROLOGY Westland Hydrology Indicators		Secondary Indicators (minir	num of huo required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply	1	Surface Soil Cracks (B	
Surface Water (A1)		Sparsely Vegetated Co	-
High Water Table (A2) Mari Deposits (B1)		Drainage Pattems (B10	
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines (B16)	=
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Roots (C3)	Dry-Season Water Tab	ole (C2)
Sediment Deposits (B2)	` '	Crayfish Burrows (C8)	
	iction in Tilled Soils (C6)	Saturation Visible on A	
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surfact Other (Explain in		Geomorphic Position (I	D2)
Inundation Visible on Aerial Imagery (B7)	r Cinario)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)		Sphagnum moss (D8)	
Field Observations:			-
Surface Water Present? Yes No Depth (inche			
Water Table Present? Yes No Depth (inche			. /
Saturation Present? Yes NoDepth (inche (includes capillary fringe)	es): <u>7 20</u> Wetland	Hydrology Present? Yes	No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if a	vailable:	_
Remarks:			
	, 		

GETATION (Four Strata) - Use scientific nar	mes of pl	ants.		Sampling Point: 🗚 🙌 🗘 🗡
e Stratum (Plot size: 30 × 30)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
-iquidbambar styracithe			FAC	That Are OBL, FACW, or FAC:(A)
Hier volonium	10	<u>_X</u>	FAC	Total Number of Dominant
Querus niaro	10	<u> </u>	FAC	Species Across All Strata: 7 (B)
Carva illinoinensis	5	N	FACU	•
<i>i</i> -				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	35	= Total Cov	/er	OBL species x 1 =
50% of total cover: 17.	5 ^{-20%} of	total cover	: 7	FACW species x 2 =
ling/Shrub Stratum (Plot size: 30 x 30)			`	FAC species x 3 =
iqustum sinense	17	V	EM	FACU species x 4 =
ignatum sillense			1 50	UPL species x 5 =
-				Column Totals: (A) (B)
				Column rotals (A) (B)
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.01
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cover	:	<u> </u>
b Stratum (Plot size: <u>30 ×30</u>)				Indicators of budge pail and watland budgelogy must
Wisteria frutescens	60	y	CHIW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			•	
				Definitions of Four Vegetation Strata:
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
				height.
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				that one portation ground and the transfer and
				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
				Woody vine - All woody vines greater than 3.28 ft in
				height.
****	10	~		
 	-	= Total Co	_	
50% of total cover:	20% o	f total cove	r: <u> — </u>	
ody Vine Stratum (Plot size: 30 x 30)				
Smilax rotunditolia	<u> 195 </u>	<u> </u>	FAC	
Toxico dendron radicans	10	Y	FAC	
· · · · · · · · · · · · · · · · · · ·				
			- ——	
	- 			Hydrophytic
	<u> 25 </u>	= Total Co	ver	Vegetation
			_	Present? Yes No
50% of total cover: 12				<u> </u>
50% of total cover: 12	A			
50% of total cover: 12 marks: (If observed, list morphological adaptations below	ow).			
	ow).			
	ow).			
	ow).			
	ow).			
	ow).			

Depth Matrix Redox Features Color (moist) % Type¹ Loc² Texture Remarks Color (moist) % Type¹ Loc²	
0-20 10/R 3/4 100 L3	
	.
	,
	
	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soil	s³:
☐ 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)	
□ Black Histic (A3) □ Loamy Mucky Mineral (F1) (LRR O) □ Reduced Vertic (F18) (outside MLF	
│ □ Hydrogen Sulfide (A4) □ Loamy Gleyed Matrix (F2) □ Piedmont Floodplain Soils (F19) (LF	RP,S,T)
Stratified Layers (A5) Depleted Matrix (F3) La 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) Hed Parent Material (TF2)	1
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)	ļ
1 cm Muck (A9) (LRR P, T)	
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation	
Coast Prairie Redox (A16) (MLRA 150A) 🔲 Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be prese	ent,
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)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type:	. /
Depth (inches): Hydric Soil Present? Yes !	ا <u>√</u>
Remarks:	
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, and the second	
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WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: City/County: Sampling Point: WNOP 003f Applicant/Owner: Dominion Section, Township, Range: N Local relief (concave, convex, none); ______ Subregion (LRR or MLRA): Sandy lam, 6-10 / Stopes 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 "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?

Hydric Soil Present?	Yes No No	within a Wetland?	Yes No
Wetland Hydrology Present? Remarks:	Yes No	<u></u> .	·
Remarks.			
HYDROLOGY			
			Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators			Surface Soil Cracks (B6)
	one is required: check all that apply)	2)	Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B1)	•	Sparsely Vegetated Concave Surface (B0) Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15 Hydrogen Sulfide C		Moss Trim Lines (B16)
Water Marks (B1)		neres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduc		Crayfish Burrows (C8)
Drift Deposits (B3)		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 R		Shallow Aquitard (D3)
laundation Visible on Aeria	ıl Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (89)		Sphagnum moss (D8) (LRR T, U)
Field Observations:	. 0		
Surface Water Present?	Yes No Depth (inches	s): <u>NA</u>	•
Water Table Present?	Yes No Depth (inches	s): <u> </u>	AST CONTRACTOR OF THE PROPERTY
Saturation Present?	Yes No Depth (inches	s): _ <u>7 `\ va</u> Wetland	Hydrology Present? Yes No
(includes capillary fringe)	am gauge, monitoring well, aerial phot	toe provious inspections) if a	vailabla
Describe Recorded Data (Sites	in gauge, monitoring well, sensi phot	ios, previous inspections), ii a	vanable.
Remarks:			
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Ì			

20 ~ 30	Absolute		1	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Dominant Species
1. Livio den dron tolipitera	10	7/	PACU	That Are OBL, FACW, or FAC: (A)
	10	-	FAC	
2. Her rubrum			TTO	Total Number of Dominant
3				Species Across All Strata: (B)
				(5)
4				Percent of Dominant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				(15)
6				Prevalence Index worksheet:
7				
	_			Total % Cover of: Multiply by:
8	<u></u>			OBL species x 1 =
	120	= Total Co	ver .	
50% of total cover: \C	20% 0	f total cove	. 4	FACW species x 2 =
37 × 21	_ 20,00	1 10141 0010	··—	FAC species x 3 =
Septing/Shrub Stretum (Plot size: 30 × 30)			en	
1. Ilex opaca	d	Y	FAL	FACU species x 4 =
Note to Carte on			-W	UPL species x 5 =
2. Acer Pubrum	70	. -/	<u> </u>	
3				Column Totals: (A) (B)
_				
4			·. ———	Prevalence Index = B/A =
5				Hydrophytic Vegetation indicators:
				1
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
	-			
8	- 45			3 - Prevalence Index is ≤3.0¹
		= Total Co	over .	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: \(\sigma\)	2006	of total cove	ᇩᄔ	
30% of total cover	2070	or total cost	"· _	
Herb Stratum (Plot size: 30 x 30)	_			¹ Indicators of hydric soil and wetland hydrology must
1. Woodwardia arcolata	15	7	OBL	be present, unless disturbed or problematic.
	20	- —		
2. Microsteaium vimineum		<u> </u>	<u> FAC</u>	Definitions of Four Vegetation Strata:
3. Wisteria frutescens	CI	'n	FALW	'
	10	N	FALU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Polystichum acrostichoider	6 1 mm		T MCK. LE	
		- - `-		more in diameter at breast height (DBH), regardless of
A /	15	- 	FAC	height.
5. Athyrium asplenoides	15	主		height.
A /	15	7		height. Sapling/Shrub - Woody plants, excluding vines, less
5. Athyrium asplenoides	15	7	FAC	height.
5. Athyrium asplenoides 6. 7.	15	7	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5. Athyrium asplenoides	15	7	FAC	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
5. Athyrium asplenoides 6	15	7	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
5. Athyrium asplenoides 6	15	7	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5. Athyrium asplenoides 6	15	7	FAC	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
5. Athyrium asplenoides 6	15	7	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5. Athyrium asplenoides 6	15	7	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	15	- - - - - - - - - -	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	15	7	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	70	= Total C	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	70	- - - - - - - - - -	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	7C 20%	= Total C	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5. Athyrium asplenoides 6	7C 20%	= Total C	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	70	= Total C	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
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5. Athyrium asplenoides 6	7C 20%	= Total C	FAC	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	7C 20%	= Total C	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	7C 20%	= Total C	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	7C \$ 20%	= Total Cof total cov	FAC	height. Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine — All woody vines greater than 3.28 ft in height. Hydrophytic
5. Athyrium asplenoides 6	7C \$ 20%	= Total Cof total cov	FAC	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	7C 20%	= Total Coof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine — All woody vines greater than 3.28 ft in height. Hydrophytic
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Cof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 FIG.	height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
5. Athyrium asplenoides 6	75 20% 10 10 20%	= Total Coof total cov	FAC Cover 1.4 Ph(height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.

Sampling Point:	wnap	003t-n
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Depth	ription: (Describe t	o the depth n	eeded to docume	ent the in	idicator d	r confirm t	he absence o	of Indicators.)
(Inches)	Matrix Color (moist)		Redox Color (moist)	Features %	Type ¹	Loc²	Texture	Remarks
0-5	10463/2	100	<u> 2010) (MOISL)</u>		Түрс		5	Nettidiks
C-12	2.5/5/	· · · · · · · · · · · · · · · · · · ·	7/25/L	1.5	1.		3	
12-70	2.545/		0/12 5/10	15	L	<u>~</u>	- 3	
1000			<u> </u>			 -		
	-	· — —	··					
								
								
	oncentration, D=Dep	Jetion DM-Pa	duced Matrix MS:	 -Masked	Sand Gr		² l coation:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Solis ³ :
Histosol	(A1)	_	Polyvalue Bel	ow Surfac	ce (S8) (L	RR S, T, U)	1 cm M	luck (A9) (LRR O)
	pipedon (A2)	-	Thin Dark Sur				•	Nuck (A10) (LRR S)
	istic (A3) en Sulfide (A4)	-	Loamy Mucky Loamy Gleyed			(Q)		ed Verlic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	-	Depleted Matr		_,		Anoma	slous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark S	-	-		•	RA 153B) arent Material (TF2)
	ucky Mineral (A7) (Ll resence (A8) (LRR U		Depleted Dark Redox Depres				_	arent material (1F2) Shallow Dark Surface (TF12)
1 cm Mu	uck (A9) (LRR P, T)	•	Marl (F10) (LI	RRU)				(Explain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Och				 3 ₁ :-	
	ark Surface (A12) Prairie Redox (A16) (MLRA 150A)	Iron-Mangana Umbric Surfac					cators of hydrophytic vegetation and tland hydrology must be present,
	Mucky Mineral (S1) (Delta Ochric (ess disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Veri					
Sandy F	Redox (S5) d Matrix (S6)		Piedmont Flo				9A) A 149A, 153C	C. 153D)
	urface (S7) (LRR P,	S, T, U)	Atomicos B	ingin Lou	my cons	(i zo) (iii zi	11 1-7071, 1000	,, 1002,
Restrictive	Layer (if observed)):						
Туре:			-					
	nches):						Hydric Soi	Present? Yes No
Remarks:								
	·							
	·							



Wetland data point wnap003f_w facing southwest.

Project/Site: ACP	City/County: Nasv	 Sam	pling Date: 9/3/14		
Applicant/Owner: Dominion		State: NC sam	pling Point: Whap 003-1		
Investigator(s): EST LL Roper)	Section, Township, Range				
Landform (hillslope, terrace, etc.): _ dvuinage	Local relief (concave, con	ivex, none): <u>Vo (\e</u>	Slope (%)		
		ng: -78,00648	Datum: W6584		
Soil Map Unit Name: Gritney Sondy loan		NWI classification:	<u> </u>		
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologysi		ormal Circumstances" preser			
Are Vegetation, Soil, or Hydrology n		ded, explain any answers in I			
		•			
SUMMARY OF FINDINGS - Attach site map	showing sampling point loo	cations, transects, im	portant features, etc.		
Hydrophytic Vegetation Present? Yes N	O Latha Camulad 4				
Hydric Soil Present? Yes N	Is the Sampled A within a Wetland		No L		
Wetland Hydrology Present? Yes N	o within a wetiand	1 tes	140		
Remarks:	clearcut	,			
disturbed vegetation - edge of	. Clear the	•	i.		
LIVEROL COV					
HYDROLOGY		Control of the Contro	(i-i		
Wetland Hydrology Indicators:	that canhul	•	(minimum of two required)		
Primary Indicators (minimum of one is required; check all		Surface Soil Crac	ed Concave Surface (B8)		
1 	Fauna (B13) eposits (B15) (LRR U)	Sparsery Vegetat	į.		
<u> </u>	en Sulfide Odor (C1)	Moss Trim Lines (B16)			
—	d Rhizospheres along Living Roots		· · ·		
	ce of Reduced Iron (C4)	Crayfish Burrows			
Drift Deposits (B3) Recent	Iron Reduction in Tilled Soils (C6)	Saturation Visible	e on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Mi	uck Surface (C7)	Geomorphic Pos	ition (D2)		
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard	(D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Tes	· · ·		
Water-Stained Leaves (B9)		Sphagnum moss	(D8) (LRR T, U)		
Field Observations:	epth (inches): -NA				
	epth (inches): >20				
Water Table Present? Yes No Do Do Do Do Do Do Do Do Do Do Do Do Do	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tland Hydrology Present?	Yes No		
(includes capillary fringe)			tes		
Describe Recorded Data (stream gauge, monitoring well,	, aerial photos, previous inspections), if available:			
Remarks:			•		
	_				
	-				

2n . 3()	Absolute Domi		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 x 30)	% Cover Spec	ies? Status FAC	Number of Dominant Species	3 🔈
1. Liquidamber Styracitlua	- 		That Are OBL, FACW, or FAC:	(A)
2			Total Number of Dominant	٦ ا
3		1	Species Across All Strata:	(B)
4			Percent of Dominant Species	1.3
5			That Are OBL, FACW, or FAC:	_ (A/B)
6			Prevalence Index worksheet:	
7			Total % Cover of:	Multiply byc
8		i	OBL species x	
	= Tota		FACW species x	l.
50% of total cover:	20% of total of	over	FAC species x	•
Sepling/Shrub Stratum (Plot size: 30 x 30)			FACU species x	
1. none present			UPL species x	•
2			l	
3			Column Totals: (A	.)(B)
4			Prevalence Index = B/A =	
5			Hydrophytic Vegetation Indica	
6			1 - Rapid Test for Hydrophy	
7			2 - Dominance Test is >50%	-
8			3 - Prevalence Index is ≤3.0	
	= Tota	al Cover	Problematic Hydrophytic Ve	
50% of total cover:				J. 12.1.01. (—17.1)
Herb Stratum (Plot size: 30 \times 30)			Indicators of hydric soil and we	fland hydrology must
1 Microstegium vimineum	'95 Y	FAC	be present, unless disturbed or	
1 (1)			Definitions of Four Vegetation	n Strata:
3.	·			
4			Tree – Woody plants, excluding more in diameter at breast height	
5			height.	it (DBi i), regulations of
			0-11-101-1	
6			Sapling/Shrub – Woody plants than 3 in. DBH and greater than	
7				. ,
8			Herb – All herbaceous (non-wo of size, and woody plants less t	
9			or size, and weeks plants less t	non o.zo n tan
10			Woody vine - All woody vines	greater than 3.28 ft in
11			height.	
12			· [
	30 = To			
	20% of tota	1 cover	•	
1 100 GY VIII CHARLETT	1.15	u FLAV		
1. Vitis motivations	<u> </u>	1 PIL	<u>•</u>	
2			-	•
3			.]	
4			-	
5			- Hydrophytic	•
	=	otal Cover	Vegetation	No
50% of total cover:	20% of tota	al cover:	Present? Yes	NO
Remarks: (If observed, list morphological adaptations t	pelow).			
disturbed, edge of	Clear	سسلم ا		
	-10004 (JCK 1		
Į.				

Profile Desc	ription: (Describe	to the depth n	eeded to docum	ent the India	ator or confirm	the absence o	f Indicators.)	
Depth	Metrix_	•	Redox	Features			,	
(inches)	Color (moist)		Color (moist)	<u>%</u> T	/pe¹ Loc²	<u>Texture</u>	Remarks	
0-4	15 1 12	100						
4-10:	2515h	100						
								
								
							,	
fvne: C=C	oncentration, D=De	nletion. RM=Re	duced Matrix, MS	=Masked Sa	nd Grains.	² Location:	PL=Pore Lining, M=Ma	trix.
	Indicators: (Appli						for Problematic Hydri	
Histosol					S8) (LRR S, T,	U)1 cm M	uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su	rface (S9) (L	RR S, T, U)	2 cm M	uck (A10) (LRR S)	
Black H	istic (A3)		Loamy Muck	y Mineral (F1) (LRR 0)		ed Vertic (F18) (outside	
	en Sulfide (A4)	•	Loamy Gleye		ı		ont Floodplain Soils (F1	• •
	d Layers (A5)		Depleted Ma				lous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR		Redox Dark	• •	71	•	(A 153B) arent Material (TF2)	
	ucky Mineral (A7) (L resence (A8) (LRR		Depleted Dar Redox Depre		<i>(</i>)		hallow Dark Surface (T	F12)
	uck (A9) (LRR P, T)		Mari (F10) (L				Explain in Remarks)	1 12,
	ed Below Dark Surfa		Depleted Oc		LRA 151)		,,	
	ark Surface (A12)				(F12) (LRR O, F	P, T) ³ Indic	ators of hydrophytic ve	getation and
Coast F	Prairie Redox (A16)		Umbric Surfa			wet	land hydrology must be	present,
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric				ess disturbed or proble	matic,
	Gleyed Matrix (S4)		_		.RA 150A, 150E			
	Redox (S5)				s (F19) (MLRA 1 Seile (F20) (ML		46201	
	d Matrix (S6) urface (S7) (LRR P,	C T III	Anomalous i	Sright Loamy	30115 (F20) (INL	RA 149A, 153C	, 1000)	
	Layer (if observed					1	11.0 - 00.00	
]		
	nches):		_			Hydric Soil	Present? Yes	No 🗸
Remarks:						1.7		
(Veillaiks.								
/ /			a 1	101				
U	nable to	s auge	- past	- 10				
•		J	•					
						•		
l								



Upland data point wnap003_u facing northeast.

Project/Site: ACP	City/County: NASh	Sampling Date: 9314		
Applicant/Owner: Pominion		State: NL sampling Point: Whap 002f.		
Investigator(s): EST (L Roper)	Section, Township, Range:	• -		
		- 15.1		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex,			
11	71 01 cong. —	243		
Soil Map Unit Name: Newadee loan, tre	quently floode	NWI classification: PFO		
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No No	(If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology significant	y disturbed? Are "Normal	Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology naturally p		explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showin	g sampling point location	ons, transects, important features, etc.		
1				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No	- Is the Sampled Area	/		
Hydric Soil Present? Yes No No No No No No No No No No No No No	within a Wetland?	Yes No		
Remarks:	-			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply	<u>) </u>	Surface Soil Cracks (B6)		
Surface Water (A1) Aquatic Fauna (8	313)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B	15) (LRR U)	✓ Drainage Patterns (B10)		
Saturation (A3) — Hydrogen Sulfide		Moss Trim Lines (B16)		
	pheres along Living Roots (C3)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Presence of Red		Crayfish Burrows (C8)		
	uction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Surfa	•	Geomorphic Position (D2)		
Iron Deposits (B5) Other (Explain in Inundation Visible on Aerial Imagery (B7)	. Netharks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:				
Surface Water Present? Yes No Depth (inch	es): NA			
Water Table Present? Yes No Depth (inch	es): 3in.			
Saturation Present? Yes No Depth (inch		Hydrology Present? Yes No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if av	/allable:		
Remarks:				
		Į.		
1				
		ļ		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30)		Species?		Number of Deminent Species
1. Acer negundo	15	Ŋ	FAC	That Are OBL, FACW, or FAC: (A)
			1.17.5	(1)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4.				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence index worksheet:
7				l '
8				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x1 =
				FACW species x 2 =
50% of total cover:	20% of	total cover		FAC species x 3 =
Sepling/Shrub Stratum (Plot size: 35 x 30)			_ ,	
1. Aver negundo	١D	_ 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:
				1 1
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co	/er	
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 0	i total cover	·——	
Herb Stratum (Plot size: 30 x 30)				¹ Indicators of hydric soil and wetland hydrology must
1. Persicaria hydropiperoid	20	Y	OBL	be present, unless disturbed or problematic.
2 Boehmeria Evlindrica	10	7	FACE	Definitions of Four Vegetation Strata:
	10	Ż		Dominion of Four Pogotation Character
3. Carex gigantea		· / -	<u> </u>	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				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	40	= Total Co	M/PT	
7	<u> </u>			
50% of total cover: Z	20%	of total cove	г. <u></u> С	•
Woody Vine Stratum (Plot size: 30 x 30)				, , , , , , , , , , , , , , , , , , ,
1. none present				
2.	_			•
3				
4.				_ i
_				1
5				- Hydrophytic
		_= Total Co	over	Vegetation Present? Yas No
50% of total cover:	20%	of total cove	er:	Present? Yas V No No
Remarks: (If observed, list morphological adaptations be				
Retital ks. (It observed, list this protoglear adaptations be	iow).			

Profile Description: (Describe to the depth needed to document the indicator or confirm	the absence of Indicators.)
Depth Matrix Redox Features	1
(inches) Color (moist) % Color (moist) % Type Loc2	Texture Remarks
0-20 1046 5/1 100	CL
17	21 and the Discounting Manager
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U	· · · · · ·
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	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)	Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	•
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	/
Type:	
Depth (inches):	Hydric Soil Present? Yes V No No
Remarks:	·L



Wetland data point wnap002f_w facing west.

Project/Site: ACP	City/County: NASY Sampling Date: 9314
Applicant/Owner: Dominion	State: NC Sampling Point; WMAP 002.
Investigator(s): ESI (L Roper)	Section, Township, Range:
	_ 4.3.1
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): None Slope (%): 6-91
	5,86280 Long: -78,00308 Datum: W8584
Soil Map Unit Name: Wehackee loam, tr	requestly flooded NWI classification: WA
Are climatic I hydrologic conditions on the site typical for this time of	f year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significal	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	
	ing 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
Wetland Hydrology Present? Yes No V	
LIVEROL COV	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	
Surface Water (A1) Aquatic Fauna	
High Water Table (A2) Marl Deposits (, , ,
Saturation (A3) Hydrogen Sulfin	· · ·
<u> </u>	spheres along Living Roots (C3) Dry-Season Water Table (C2) duced Iron (C4) Crayfish Burrows (C8)
<u> </u>	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surf	· · · —
tron Deposits (B5) Other (Explain	
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 (inc	
Water Table Present? Yes NoDepth (inc	
Saturation Present? Yes No Depth (includes capillary fringe)	thes): 720 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections), if available:
Remarks:	
1	
,	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 × 30)	% Cover	Species?	_Status_	Number of Dominant Species
1. Acer rubrum	10		EAL	That Are OBL, FACW, or FAC:(A)
2				
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				Daniel and Indiana de la de
7				Prevalence Index worksheet:
•				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species x 1 =
50% of total cover: 5	20% of	I total cover	2	FACW species x 2 =
Septing/Shrub Stratum (Plot size: 30 x 30)	20 % 01	total cover		FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
2				1
3				Column Totals: (A) (B)
1 .				· Prevalence Index = B/A =
5.				i
				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				✓2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
		= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% o	f total cover	r:	
Herb Stratum (Plot size: 30 x 30)				Indicators of hydric soil and wetland hydrology must
1. Wisteria frutescens	10	Y	FACW	be present, unless disturbed or problematic.
l •				Definitions of Four Vegetation Strata:
				Deminions of Four Vegetanon offaca.
J				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 of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants toss than 5.25 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11			·	height.
12	- 			
	10	= Total Co	wer	
50% of total cover:		of total cove		
Woody Vine Stratum (Plot size: 30 x 30)				
1. Smilax cottendifolia	10	V	FAL	
		- —	<u> </u>	
2				
3			 	
4				
5				Hydrophytic
	10	_ = Total Co	over	Vegetation
50% of total cover:		- of total cove	•	Present? Yes No
Remarks: (If observed, list morphological adaptations be	iow).			
edge of clear wit				

Profile Desc	ription: (Describe t	to the depth	needed to docum	nent the Ir	ndicator	or confirm	the absence o	f indicators.)	
Depth	Matrix			x Features				_	ļ
(inches)	Color (moist)	_%	Color (moist)	%	Туре	_Loc ²	<u>Texture</u>	Remarks	[
0-3	254413	100					<u> </u>		i
3-12	2.54 5/4	100					<u> </u>		
12-20	- 2.5 Y 5/4	90 1	10 YR 5/6	10	<u>ر</u>	M	SL		
			•				,		
l ——				-					
l									
		· -							
	oncentration, D=Dep					ains.		PL=Pore Lining, M=Matrix.	
I -	indicators: (Applica	able to all L						or Problematic Hydric Soils	:
Histosol			Polyvalue Be				. —	uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					uck (A10) (LRR S)	4500 81
1 —	istic (A3)		Loamy Muck			(0)		d Vertic (F18) (outside MLRA	1
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		· 4)			nt Floodplain Soils (F19) (LRF lous Bright Loamy Soils (F20)	. г, о , і ј
l —	Bodies (A6) (LRR P	. T. U)	Redox Dark		6)			A 153B)	
	ucky Mineral (A7) (LF		Depleted Date				•	rent Material (TF2)	
	esence (A8) (LRR U		Redox Depre					nallow Dark Surface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (L	•			Other (I	Explain in Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc		-	-	_ 3		
1 —	ark Surface (A12)		!ron-Mangan					ators of hydrophytic vegetation	
	rairie Redox (A16) (I Jucky Mineral (S1) (I			, ,				and hydrology must be presen ss disturbed or problematic.	t,
	Gleyed Matrix (S4)	-KK O, 3)	Delta Ochric Reduced Ver		-			ss distuibed or problematic.	
	Redox (S5)		Piedmont Flo						
	i Matrix (S6)			-			A 149A, 153C,	153D)	
	rface (S7) (LRR P, S	s, T, U)		_	-	, .		·	
Restrictive	Layer (if observed):								
Туре:									
Depth (in	ches):						Hydric Soil	Present? Yes No	
Remarks:									
,									
1									
1									



Upland data point wnap002_u facing east.

Project/Site: ACP	City/County: Nash Sampling Date: 9/3/14
Applicant/Owner: Pominion	State: NC Sampling Point: wnap 001 (
	Section, Township, Range: NA
	Local relief (concave, convex, none): NOVE Slope (%): 0-41/4
4 7 7 1	86253 Long: -78, 60387 Datum: W6584
· · · · · · · · · · · · · · · · · · ·	
Soil Map Unit Name: Wehadkle loan, freq	17
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wes No Yes No Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	113) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	
Saturation (A3) Hydrogen Sulfide	
<u> </u>	oheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu	uced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	· —
Iron Deposits (B5) Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
<u>✓</u> Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inche	
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:	

20 × 30		Dominant		Dominance Test worksheet:
Tree Stratum (Piot size: 30×30)		Species?		Number of Dominant Species
1. Acer rubrum	10		FAC	That Are OBL, FACW, or FAC: (A)
2. Betula nigra	10	<u> </u>	FACW	Total Number of Dominant
3 U				Total Number of Dominant Species Across All Strata: (B)
4.				··································
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x1 =
	<u> </u>	= Total Cov	er	1
50% of total cover: ℓ ℃	20% of	total cover.	4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 x 30)				FAC species x 3 =
1. Acer negundo	(%)	4	FAC	FACU species x 4 =
2 Nyssa Sylvatica	10	~	E41	UPL species x 5 =
	- 10		<u> </u>	Column Totals: (A) (B)
3,				
4	. ——			Prevalence index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1_Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				
0	1.0	= Total Cov		3 - Prevalence Index is ≤3.01
50% of total cover: \O	2001	= lotal Cov	را ال	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 10	20% o	total cover	::	1
Herb Stratum (Plot size: 30 x 30)				¹ Indicators of hydric soil and wetland hydrology must
1. none present				be present, unless disturbed or problematic.
2,				Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	~,			more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10		- 1		Woody vina - All woody vines greater than 3.28 ft in
11		. ——		height.
12		-	. ——	
		= Total Co	ver	
50% of total cover:				
Woody Vine Stratum (Plot size: 30 x 30)				
0.48 0.48	_			
***************************************	-			`
2				•
3				
4		- ——		.
5		-		Hydrophytic
	0	= Total Co	ver	Vegetation
50% of total cover:	20%	- of total cove	эг.	Present? Yes No
Remarks: (If observed, list morphological adaptations be				-
Remarks: (if observed, list morphological adaptations be	iow).			
<u> </u>				
•				

Profile Des	cription: (Describe	to the dept	th needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			<u> Features</u>	3		i	
(inches)	Color (moist)	- - % - -	Color (moist)	<u>%</u>	_Type	Loc ²	Texture	Remarks
0-8	2.6741	95	104R 5/6	<u> </u>	<u>_</u> _	<u> </u>	<u>SiC</u>	
8-20	+ 2.5 45/1	95	1048 5/6	5		PL	SiC	
l ———	·							
l								·
			 -	. ——				
								
			=Reduced Matrix, MS			ains.		PL=Pore Lining, M=Matrix.
Hydric Soli	Indicators: (Appli	icable to all	LRRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Solls ³ :
Histoso	(A1)		Polyvalue Be				-	Muck (A9) (LRR O)
,	pipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)
	listic (A3)		Loamy Muck			t O)		ced Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			nont Floodplain Soils (F19) (LRR P, S, T)
_	ed Layers (A5)		✓ Depleted Ma	. ,	-0.			alous Bright Loamy Soils (F20)
	c Bodies (A6) (LRR		Redox Dark	•	•		-	RA 153B)
	lucky Mineral (A7) (I							Parent Material (TF2)
	Presence (A8) (LRR		Redox Depre	-	0)			Shallow Dark Surface (TF12) (Explain in Remarks)
_	luck (A9) (LRR P, T ed Below Dark Surfa	-	Marl (F10) (L Depleted Oc		(MIPA4	54)	Otner	(Explain in Kemarks)
. — .	ed Below Daik Sdill Park Surface (A12)	ico (ATT)	Iron-Mangan				T) ³ India	cators of hydrophytic vegetation and
1	Prairie Redox (A16)	(MLRA 150.					•	elland hydrology must be present,
	Mucky Mineral (S1)					, -,		less disturbed or problematic.
	Gleyed Matrix (S4)	(=:::: =; =;	Reduced Ve			50A, 150B)		
	Redox (S5)		Piedmont Flo					
1	d Matrix (S6)			-			RA 149A, 1530	C, 153D)
	urface (S7) (LRR P	, S, T, U)	_	•	•			
	Layer (If observe						Τ	
Туре:								
	пches):						Hydric Soi	I Present? Yes No
Remarks:							1, 5 5	
Kelilaiks.								
1								
1								
1								
1								



Wetland data point wnap001f_w facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Sampling Point: Whap 001 Applicant/Owner: Pomicrion Investigator(s): EST Section, Township, Range: NA Local relief (concave, convex, none): ________ Landform (hillslope, terrace, etc.): Long: _-78,00380 Subregion (LRR or MLRA): L Soil Map Unit Name: Wehadkee NWI classification: _ ____ (If no, explain in Remarks.) Are climatic I hydrologic conditions on the site typical for this time of year? Yes _ Are Vegetation _____, Soil _____, or Hydrology __ Are "Normal Circumstances" present? Yes 🗘 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: Rocent Clearcut **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) ___ Aquatic Fauna (B13) 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) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Algal Mat or Crust (B4) Thin Muck Surface (C7) Other (Explain in Remarks) Shallow Aquilard (D3) Iron Deposits (85) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): _ Surface Water Present? Water Table Present? Wetland Hydrology Present? 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 o	of plants.
		,	00.01.11.110		.,

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover			Number of Dominant Species
1. Carpinus Caroliniana	10	Ą	FAC	That Are OBL, FACW, or FAC: (A)
2 Acerrubrum	- 10	Y	FAC	
			1.1.32	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: \OO (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of:Multiply by:
8			-	OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover:		total cover	:	
Sapling/Shrub Stratum (Plot size: 30)	_			FAC species x 3 =
1. Carpinus caroliniana		4	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.				1
•				1- Rapid Test for Hydrophytic Vegetation
7		•		2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
	5	= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	2,5 20% of	total cover	- 1	
			`——	
, <u>110/8 5/14/6/10</u>		Vi.	~ acti	Indicators of hydric soil and wetland hydrology must
1. Wisteria futescens			<u> FHKW</u>	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Two Mandages and adding the Control of the Control
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				North All banks as any four words \ Plants regardless
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail.
9				of size, and woody plants less than 5.20 k tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				helght.
12				
	10	= Total Co	×/01	`
50% of total cover: _	20% 0	f total cove	r. <u> </u>	•
Woody Vine Stratum (Plot size: 30)			A	
1. Toxicodendron radicans	5	_ <u>_</u>	<u>fac</u>	
		-		
2				- [
3			_	- [
4				-
5				- Hydrophytic
	.5	= Total Co	over	
F00/ -61-1-1 - · · ·	3 F			Present? Yes No
50% of total cover: _	20%	JI LOIBI COV	31	
Remarks: (If observed, list morphological adaptations	s below).			
_				
leducat Dear out				
edge of Hear cut				

Lienth	ription: (Describe t Matrix	,		x Features			uie abseilee		•	
Depth (inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type ¹	Loc ²	Texture		Remarks	
0-12	1041L4/4	100					CL			
12-20	10/125/4	100		-			CL			
10 00	10 11- 14									
	-									
Type: C=Co	oncentration, D=Depl	etion. RM=R	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lin	ing, M=Matrix.	
	ndicators: (Applica								atic Hydric Sc	lls³:
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) (L	RR S, T, U	1 cm N	luck (A9) (LF	RRO)	
	ipedon (A2)		Thin Dark St				_	łuck (A10) (L	•	
Black His	•		Loamy Much	-		0)			8) (outside Mi	
	n Sulfide (A4)		Loamy Gley		-2)			-	n Soils (F19) (i	
	l Layers (A5) Bodies (A6) (LRR P,	т ш	Depleted Ma		6)			11005 Brigin L RA 153B)	.oamy Solls (F	20)
	icky Mineral (A7) (LF		Redox Dark Depleted Da	•			•	arent Materia	l (TF2)	
	esence (A8) (LRR U		Redox Depr				_		Surface (TF12))
	ck (A9) (LRR P, T)		Marl (F10) (Other	(Explain in R	emarks)	
	d Below Dark Surfac	e (A11)	Depleted Oc		-	•	•			
	ark Surface (A12)		Iron-Mangat						ophytic vegeta	
_	rairie Redox (A16) (M	•			•	, 0)		-	gy must be pre	
	lucky Mineral (S1) (L Bleyed Matrix (S4)	.KK U, S)	Delta Ochrid			.ng 150B)	UIII	ess mistainer	d or problemati	i.
	Redox (S5)		Piedmont Fi				9A)			
	Matrix (S6)		_	-		-	A 149A, 1530	, 153D)		
	rface (S7) (LRR P, S	S, T, U)	_							
Restrictive	Layer (if observed):									
Туре:							1			
							1			
	ches):						Hydric Soi	l Present?	Yes	No
			·····				Hydric Soi	l Present?	Yes	No <u></u>
Depth (in							Hydric Soi	l Present?	Yes	No
Depth (in						1 414 - 1 344	Hydric Soi	l Present?	Yes	No
Depth (in							Hydric Sol	I Present?	Yes	No
Depth (in		***					Hydric Sol	I Present?	Yes	No
Depth (in							Hydric Sol	I Present?	Yes	No <u> </u>
Depth (in							Hydric Sol	I Present?	Yes	No V
Depth (in								I Present?	Yes	No
Depth (in	ches):								Yes	No <u> </u>
Depth (in	ches):								Yes	No <u> </u>
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No
Depth (in	ches):								Yes	No
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No
Depth (in	ches):								Yes	No
Depth (in	ches):								Yes	No V
Depth (in	ches):								Yes	No
Depth (in	ches):								Yes	No



Upland data point wnap001_u facing east.

Project/Site: ACP c	ity/County: NOSh Sampling Date: 4/4/14
Applicant/Owner: Dom inido	State: NC Sampling Point: Whao Ollf-W
Investigator(s): FSI - K, MWPhrey 15. Gay s	Section Township Range: NA
	oçal refief (concave, convex, none): (UnCave Slope (%): U-2
Landform (mislope, terrace, etc.): (CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	5786 Long: 78.00720 Datum: W6584
Subregion (LRR or MLRA): LICE Lat: 30.0	
Soil Map Unit Name: Rains Sandy Loam	NWI classification: PF ∪
Are climatic / hydrologic conditions on the site typical for this time of yea	r? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly of	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally 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	is the Sampled Area within a Wetland? Yes No
Remarks:	
2 inches of rain 8/1-8/2	1
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1:	
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide (
	neres along Living Roots (C3)
Sediment Deposits (B2) Presence of Reduc	
	ction in Tilled Soils (C6) Seturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	_ <i>_ v</i>
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	NA
Surface Water Present? Yes No Depth (inches	s): 724"
Water Table Present? Yes No Depth (inches	s): 72011
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): 720 Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

EGETATION (Four Strata) - Use scientific ha	ilies of bi	anto.	ı	Sampling Politic V
20'Y20'			t Indicator	Dominance Test worksheet:
ree Stratum (Plot size: 30°X30°)		Species'	? Status	Number of Dominant Species
Liriodendrun tulipisera	<u> 30 </u>	7	FACU	That Are OBL, FACW, or FAC: (A)
Pinus taeda	- 10	· <u>·</u> _Ý	FAC	Total Normal and Daminant
Liquidambar Styrocistua	3	Ŋ	FAC	Total Number of Dominant Species Across All Strata: (B)
		N	FACW	Species Across Air Strata.
Platanus. Occidentalis	<u>- </u>	1//	F11C44	Percent of Dominant Species That Are ORL FACW or FAC: (A/R)
				That Are OBL, FACW, or FAC: 40/6 (A/B)
·	·			
				Prevalence Index worksheet:
		· ·	-	Total % Cover of: Multiply by:
·				OBL species x 1 =
		= Total C		
50% of total cover: 2	<u>′</u> 20% o	f total cov	er: <u>(O</u>	FACW species x 2 =
epling/Shrub Stratum (Plot size: 30'X30')				FAC species x 3 =
Morella Cerifera	ιS	V	FAC	FACU species x 4 =
	- ` _ _		_ ——	UPL species x 5 =
cletura alnifolia		<u> </u>	- FXCW	
. Vaccinium corymbosum	5_	<u>. </u>	FACW	Column rotals (A) (B)
Liquistrum sinense	5	Ÿ	FAC	Provolence Index - R/A -
TIEXOPOCO	<u> '₹ -</u>	- (FAC	Prevalence index = B/A =
. PLUX OTURDS			1 110	Hydrophytic Vegetation Indicators:
)				Rapid Test for Hydrophytic Vegetation
·				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
·	- 23	_ = Totai (Cover	\
				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	<u>, 3</u> 20%	of total co	ver:/	-
Herb Stratum (Plot size: <u>30'X30'</u>)				¹ Indicators of hydric soil and wetland hydrology must
MICROSTERIUM VIMINEUM	つりし	У	FAC	be present, unless disturbed or problematic.
2. OSMUNDASTIUM CIANAMOMEUN			TA(W	Definitions of Four Vegetation Strata:
2. OSMOCIA BOILDING CITTION CONTEXT	<u> </u>		<u> </u>	Definitions of Pour Vegetation Strata.
3				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) c
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, regardles
				of size, and woody plants less than 3.28 ft tall.
9				=
10				 Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
12.	<			
	_ 		Cover	-
50% of total cover:	<u>· </u>	% of total c	over:	_
Woody Vine Stratum (Plot size: 30'X30')				
4 00 10 0 College 1 College	<	\/	FAC	
1. Smilax Ortendificia	<u> </u>	<u> </u>		-
2			,	_ [
3				
				_
4				
5				- Hydrophytic
	5	= Tota	al Cover	Vegetation
50% of total cover:				Present? Yes No
_		76 OI (Otal	cover	
Remarks: (If observed, list morphological adaptations	below).			
, , , , , , , , , , , , , , , , , , , ,	•			
	•			
İ				

Profile Desc	ription: (Describe 4	to the dep	th needed to docu	ıment the	indicator	or confirm	the absence o	f indicators.)	
Depth ·	. Matrix		Red	lox Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc²	Texture	Remarks	_
<u> 6~ 3</u>	104R3/2	<u> 700</u>					<u> </u>	·	
<u>3-8</u>	104R3/2	100					. سای		
8-20	104R5/2	98	104R6/6	, Э	\mathcal{C}	M	SCL		
		· — —	13.7						
·		· ——			-				
		- —							. -
									
¹Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, I	MS=Maske	d Sand G	rains.		PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Applic	able to all						for Problematic Hydric Soils ³ :	
Histoso	• •					LRR S, T, U		uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark					uck (A10) (LRR S)	۸ ا
=	istic (A3)		Loamy Mu			R O)		ed Vertic (F18) (<mark>outside MLRA 150</mark> / ont Floodplain Soils (F19) (LRR P, S	
	en Sulfide (A4) d Layers (A5)		Depleted N	-	(4 A)			lous Bright Loamy Soils (F20)	9 11
	:u Layers (AS) : Bodies (A6) (LRR F	P, T, U)		rk Surface	(F6)			RA 153B)	
= -	ucky Mineral (A7) (L		=	Dark Surfac				arent Material (TF2)	
	resence (A8) (LRR l		Redox De	pressions (hallow Dark Surface (TF12)	
1 cm M	uck (A9) (LRR P, T)		Marl (F10)				U Other ((Explain in Remarks)	
= ·	ed Below Dark Surfac	ce (A11)		Ochric (F11			1.		
=	ark Surface (A12)		_			(LRR O, P	•	ators of hydrophytic vegetation and	
	Prairie Redox (A16) (· —	urface (F13				land hydrology must be present,	
	Mucky Mineral (S1)	(LKK U, S	· —	ric (F17) (1 Vertic (F19		') 150A, 150B		ess disturbed or problematic.	
P	Gleyed Matrix (\$4) Redox (\$5)		_			9) (MLRA 1	-		
	ed Matrix (S6)		_	-			RA 149A, 153C	, 153D)	
	urface (S7) (LRR P,	S, T, U)		Ü	-	`	•	•	
	Layer (if observed								
Type: _							1	1	
Depth (inches):						Hydric Soi	Present? Yes No	
Remarks:	· · · · · · · · · · · · · · · · · · ·								
İ							•		
	•								
\									
}									
1									
1									
1									
1									



Wetland data point wnao011f_w facing south.

Project/Site: A-CP	City/County: Nash		Sampling Date: 8/4/14
Applicant/Owner: Dominio	· · · · · · · · · · · · · · · · · · ·	State: NC	Sampling Point: Whao Oil.
nvestigator(s): ESI-K. MUPhrey/J. by	_ Section, Township, Range		
andform (hillslope, terrace, etc.): hill scope Subregion (LRR or MLRA): LR RP Lat: 35	Local relief (concave, con-	vex, none): <u>CUNV®</u> ng:	Slope (%): 2-4 712 Datum: W658
Soil Map Unit Name: Rains Sondy loam		NWI classifi	ication: <u>NP</u>
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 significan	ily disturbed? Are "No	ormal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology naturally		led, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showli		cations, transect	s, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present?	Is the Sampled A within a Wetland		No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required
Primary Indicators (minimum of one is required: check all that app			oil Cracks (B6)
Surface Water (A1)	• •		Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (Patterns (B10)
Saturation (A3) Hydrogen Sulfill Oxiditied Rhite	spheres along Living Roots		n Lines (B16) on Water Table (C2)
	educed Iron (C4)		Burrows (C8)
 	duction in Tilled Soils (C6)	_	n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Sur		=	hic Position (D2)
Iron Deposits (B5) Other (Explain		—	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neu	itral Test (D5)
☐ Water-Stained Leaves (B9)		Sphagnu Sphagnu	m moss (D8) (LRR T, U)
Field Observations:	A/A		
Surface Water Present? Yes No Depth (in	ches): MA		
Water Table Present? Yes NoDepth (in	ches):		
(includes capillary fringe)		etland Hydrology Pro	esent? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections	s), if available:	
Remarks:			
Nemarks.			
\			
			_

GETATION (Four Strata) — Ose scientine na		Dominant I	ndicator	Dominance Test worksheet:
ree Stratum (Plot size: 301×30()		Species?		Number of Deminant Consises
Liquidamoay Styracistua	. 73		FAC	That Are OBL, FACW, or FAC: (A)
Pinus topda	10	$\overline{\nabla}$	FAC	
Liciadendrun tulipitera	13	V	FACC	Total Number of Dominant Species Across All Strata: (B)
·		/		Species Acidss Air Galda.
· , · · · · · · · · · · · · · · · · · ·				Percent of Dominant Species That Are OBL, FACW, or FAC: 56 % (A/B)
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	11.			OBL species x1=
	40	= Total Cov	ег	
50% of total cover: <u>入ひ</u>	20% of	f total cover:	<u> </u>	FACW species x 2 =
apling/Shrub Stratum (Plot size: <u>30 X30(</u>)				FAC species x 3 =
Movena cecisera	10	4	FVC	FACU species x 4 =
Platanus occidentalis	5	$\overline{}$	FACW	UPL species x 5 =
· · · · · · · · · · · · · · · · · · ·		/		Column Totals: (A) (B)
				Prevalence Index = B/A =
·	-			Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
·				☐ 3 - Prevalence Index is ≤3.01
	15	= Total Co	ver _	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	<u> </u>	of total cover	r: <u> </u>	
Herb Stratum (Plot size: 30 x 30)				¹ Indicators of hydric soil and wetland hydrology must
1. <u>non-{</u>				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Delimitions of Four Vegetation Strata.
·			-	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
ł,			. 	
5				height.
S				Sapling/Shrub - Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
В				 Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11			_	_ height.
12				- \
		= Total C	over	
50% of total cover:	20%	of total cov	er:	_ {
Woody Vine Stratum (Plot size: 30 ×301)		1.1		
1. Smilax rotundifolia	- 5	Y	FAC	
2. Vitis Potundialia	<		FAC	=
				-
3				-
4				- }
5				Hydrophytic
	_10	= Total (Cover	Vegetation
50% of total cover:	5 20%	— % of total co	ver: 2	Present? Yes No
Remarks: (If observed, list morphological adaptations	ngiow).			
•		,		
1				

epth	<u>Matrix</u>		needed to document the Redox Featur	es		•	
iches)	Color (moist)		Color (moist) %	Type¹ Loc²	Texture .	Remarks	
<u>-7</u>	104R3/2	140 <u> </u>	 —		COAYSE	3C	 -
<u> २० :</u>	104'R5/6	100			coarse	SEL	
	•						
							
				-	·		
					·		
					 .	 	
/pe: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, MS=Mask	ed Sand Grains.		PL=Pore Lining, M=Ma	
dric Soil	Indicators: (Appli	icable to all LF	Rs, unless otherwise n		_	for Problematic Hydri	c Soils":
Histoso				face (S8) (LRR S, T,		uck (A9) (LRR O)	-
	pipedon (A2)		Thin Dark Surface (S			uck (A10) (LRR S)	- 111 DA 4504 B
-	listic (A3)		Loamy Mucky Miner			ed Vertic (F18) (outsi d ont Floodplain Soils (F1	
_	en Sulfide (A4) ed Layers (A5)		Loamy Gleyed Matri Depleted Matrix (F3)			lous Bright Loamy Soil	
,	c Bodies (A6) (LRR	PTIN	Redox Dark Surface			RA 153B)	5 (1 2 0)
	lucky Mineral (A7) (Depleted Dark Surfa			arent Material (TF2)	
2	resence (A8) (LRR		Redox Depressions			hallow Dark Surface (1	F12)
	luck (A9) (LRR P, T		Marl (F10) (LRR U)		🛄 Other	(Explain in Remarks)	
Deplete	ed Below Dark Surf	ace (A11)	Depleted Ochric (F1		•		
	Dark Surface (A12)			sses (F12) (LRR O,		ators of hydrophytic ve	-
	Prairie Redox (A16)			• •		land hydrology must be	
_	Mucky Mineral (S1)		Delta Ochric (F17)	•		ess disturbed or proble	mauc.
=	Gleyed Matrix (S4)			8) (MLRA 150A, 150 n Soils (F19) (MLRA			
_	Redox (S5) ed Matrix (S6)		—	oarny Soils (F20) (M		C. 153D)	
	Surface (S7) (LRR F	, S, T, U)			•	•	
	e Layer (if observe						
Type: _]		<i>\</i>
Depth (inches):				Hydric Soi	l Present? Yes	No
Remarks:					'		
		•					
						7	
			•				
				,			



Upland data point wnao011_u facing north.

Project/Site: ACP	City/County: NOSh	Sampling Date: <u>8/4/14</u>
Applicant/Owner: DOMINION	State: N	Sampling Point: Whao Olof-w
Investigator(s): ESI - K, Murphreul, by	Section, Township, Range: NA	
Landform (hillslope, terrace, etc.): Swamp	Local relief (concave, convex, none):	Uncave Slope (%): 0-2
Subregion (LRR or MLRA): LRR QR Lat: 35	184462 Long: 78,0	16+2 Datum: W6584
Soil Map Unit Name: Ribb 10am	NWI o	elassification: PFO
Are climatic / hydrologic conditions on the site typical for this time of		
Are Vegetation, Soil, or Hydrology significan		nces" present? Yes No
Are Vegetation, Soil, or Hydrology naturally		
SUMMARY OF FINDINGS - Attach site map showing		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	within a Wetland?	No
2 inches of rain 8/1-	81 7	
HYDROLOGY		
Wetland Hydrology Indicators:	Seconda	ry Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	olv) Surfa	ace Soil Cracks (B6)
Sufface Water (A1)		rsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (nage Patterns (B10)
☐ Saturation (A3) ☐ Hydrogen Sulfive ☐ Water Marks (B1) ☐ Oxidized Rhizo	· · · · · · · · · · · · · · · · · · ·	s Trim Lines (B16) Season Water Table (C2)
		yfish Burrows (C8)
Drift Deposits (B3)	duction in Tilled Soils (C6) 🔲 🔲 Satu	uration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	· · · · · · · · · · · · · · · · · · ·	omorphic Position (D2)
Upon Deposits (B5) Upon Deposits (B5) Upon Deposits (B5) Upon Deposits (B7)		1low Aquitard (D3) C-Neutral Test (D5)
Water-Stained Leaves (B9)	——————————————————————————————————————	nagnum moss (D8) (LRR T, U)
Field Observations:	(00)10	
Surface Water Present? YesNo Depth (inc	ches): See note	_
Water Table Present? YesNo Depth (inc		
Saturation Present? Yes No Depth (in (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	ches): Wetland Hydrolog	y Present? Yes No
2000,130 (1000,1000,1000,1000,1000,1000,1000,10	,	
Remarks:		
2-6" of Standing Surface	e water at da	da foind
	•	

	<u> </u>			
2/3/2/1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' x30')		Species?		Number of Dominant Species
1. PINUS tokas	10		FAC	That Are OBL, FACW, or FAC:(A)
2. Ilex opaca	10	Ý	FAC	
3. Liviodendium tumpièrera	10	$\overline{}$	FACU	Total Number of Dominant
3. Livido energy to the construction		_/_		Species Across All Strata: (B)
4. Liquidambor Styracifica	<u> </u>	_/\/	FAC	Percent of Dominant Species 43
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 93 (A/B)
				That Ale OBE, I ACTT, OF FAC.
6				Prevalence Index worksheet:
7				1
8				Total % Cover of: Multiply by:
	- 35	= Total Co	WAT	OBL species x 1 =
				FACW species x 2 =
50% of total cover: 17	20% ٥ حـــــــــــــــــــــــــــــــــــ	f total cove	i	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: <u>30 スコッ</u>)				
1. ACEC rubrum		Ν	FAC	FACU species x 4 =
2 Movella Cerifera	20	$\overline{}$	FAC	UPL species x 5 =
	- —	- 		Column Totals: (A) (B)
3. NySSA SUIVATICA	<u> </u>	/>	FAC	Coldini Totals(A)
4. Prisea borbonia	1<	\/	FACW	Presidence Index - DIA -
5. Liquidombar Styrocitius	<u> </u>	- 7/	FAC	Prevalence Index = B/A =
5. Liquido mas signocia ina	≥ —>			Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophylic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.01
		_= Total C		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2	S 20%	of total cov	er: 10	
Herb Stratum (Plot size: 30' X 30')				
Herb Stratum (Plot size: 30 / 30)	1	\ /	Then	Indicators of hydric soil and wetland hydrology must
1. Arundinaria gigantea			FACW	be present, unless disturbed or problematic.
2.		,		Definitions of Four Vegetation Strata: .
				-
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4			<u></u>	_ more in diameter at breast height (DBH), regardless of
5				height.
6				
7			 	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All harbassaus (non woods) plants regardless
				the state of the s
9			-	of size, and woody plants less than 5.20 it toil.
10				- Woody vine - All woody vines greater than 3.28 ft in
11				height.
				_
12	— 			
		= Total		
50% of total cover:/	7,5 20%	6 of total co	over: 3	
3/1/2//			-·· <u></u>	~
Woody Vine Stratum (Plot size: 30 × 30')	2	d	- 0 /	
1. Smilax rotunditalia	<u> </u>	<u> </u>	<u> </u>	<u>- </u>
2				
2				-
3				-
4,				_
"				
5				— Hydrophytic
		= Total		Vegetation
50% of total cover:	200	% of total c	over: <u>0, 나</u>	Present? Yes No No
· →				-
Remarks: (If observed, list morphological adaptations	pelow).			
			· · · · · · · · · · · · · · · · · · ·	
1	÷			•
1				

)epth	• • • • • • • • • • • • • • • • • • • •			x Feature		or committee	ne absence of	maicators.;	
inches)	Matrix Color (moist)		Color (moist)	x Feature %		Loc²	Texture	Rema	rks
	·			-				••	
	<u> </u>	- -							
									·
					. <u> </u>				
ype: C=0	Concentration, D=De	pletion, RM=R	educed Matrix, M	IS=Maske	d Sand Gr	ains.		L=Pore Lining, M=	
_	I Indicators: (Appli	cable to all Li					r=-1	r Problematic Hy	rdric Soils*:
Histoso	ol (A1) Epipedon (A2)		Thin Dark S			₋RRS,T,U) TUN		ck (A9) (LRR O) ck (A10) (LRR S)	
■ Ž	Epipedon (A2) Histic (A3)		Loamy Muc				$\overline{}$		side MLRA 150A,B)
j Hydrog	gen Sulfide (A4)		Loamy Gley			·	Piedmon	t Floodplain Soils	(F19) (LRR P, S, T)
	ed Layers (A5)		Depleted M		-a			ous Bright Loamy S	Soils (F20)
= -	ic Bodies (A6) (LRR Nucky Mineral (A7) (I	-	Redox Dark Depleted D		•			153B) ent Material (TF2)	
=	Presence (A8) (LRR		Redox Dep					allow Dark Surface	
1 cm P	Muck (A9) (LRR P, T)	Marl (F10)				Other (E	xplain in Remarks	5)
= .	ted Below Dark Surfa	ice (A11)	Depleted O	-			r) 3Indian	tara of budrants dis	vegetetien and
==	Dark Surface (A12) Prairie Redox (A16)	(MLRA 150A)	_			(LRR O, P, 1 T. U)	•	tors of hydrophytic and hydrology mus	_
	Mucky Mineral (S1)		Delta Ochr		•	•		ss disturbed or pro	
=	Gleyed Matrix (S4)					50A, 150B)			
=	y Redox (S5)		-	•	•	(MLRA 149 (E20) (MLR	9A) A 149A, 153C,	153D)	
_	ied Matrix (S6) Surface (S7) (LRR P	, S, T, U)	Anomalous	s Dright LO	arriy oolis	(1 20) (HEIV	n 143A, 1330,	1550/	
	e Layer (if observe		<u> </u>				1		· · · · · · · · · · · · · · · · ·
							1		
Type:_									
Depth	(inches):			<u> </u>	<u> </u>		<u> </u>	Present? Yes_	
Depth	(inches):		<u> </u>			· (a)	<u> </u>		
Depth	(inches):	Ponde	- For	(400	o do	uroti	<u> </u>		
Depth	(inches):	Pondea to St	For small	iune Seil	o do	nroti	<u> </u>		
Depth	(inches):	Ponded	for somple s	(Une	o da	·ron	<u> </u>		
Depth	(inches):	Ponded to Sf	tmple S	(Una	o do	~ro+,	<u> </u>		
Depth	(inches):	Ponded to Sf	for somple s	(Una) da	~~~~~·	<u> </u>		
Depth	(inches):	Ponded to Sf	- For Imple S	(Una) da	~ro+1	<u> </u>		
Depth	(inches):	Ponded to Sf	tor tmple S	(Une) da	nroti	<u> </u>		
Depth	(inches):	Ponded to Sf	For s	(Una) da	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
Depth	(inches):	Ponded to Sf	tor tmple s	(Une) ત	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
Depth	(inches):	Ponded to Sf	For s	(Una) da	nron	<u> </u>		
Depth	(inches):	Ponded to St	For s	(Una) da	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
Depth	(inches):	Ponded to Sf	tor tmple s	(Une) d	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
Depth	(inches):	Ponded to SA	For s	(Una) d	nron	<u> </u>		
Depth	(inches):	Ponded to Sf	for s	(Una) d	~YO+1	<u> </u>		
Depth	(inches):	Ponded to Sf	t for s	(Une) da	nron	<u> </u>		
Depth	(inches):	Ponded to Sf	For s	(Una) da	NON	<u> </u>		
Depth	(inches):	Ponded to Sf	for s	(Une) da	~YO+1	<u> </u>		
Depth	(inches):	Ponded to Sf	tor tmple s	(Une) da	NOT	<u> </u>		



Wetland data point $wnao010f_w1$ facing southwest.

Permanently flooded wetland.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Nash Project/Site: __ Applicant/Owner: Dominion Investigator(s): FST-K.MWPhrey/J. (by/Section, Township, Range: NA Landform (hillslope, terrace, etc.): Flot Local relief (concave, convex, none): Frott Subregion (LRR or MLRA): LRR P _ Long: -78.01426 Soil Map Unit Name: Rains Soma (0pm Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: 2 inches of rain 8/1-8/2 **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) ☐ Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAG-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Depth (inches): Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

'EGETATION (Four Strata) – Use scientific nan	nes of pl	ants.		Sampli	ing Point:
211/2/1		Dominant		Dominance Test worksheet:	
	% Cover	Species?	Status	Number of Dominant Species	8 (4)
1. Pinus taleda	15	$\overline{\lambda}$	FAC	That Are OBL, FACW, or FAC:	(A)
Quercus nigra	<u> </u>	N	FAC		 .
Acer rubrum	10	$\overline{}$	FAC	Total Number of Dominant	√ _(B)
			111-	Species Across All Strata:	(6)
ł				Percent of Dominant Species	(50)
5				That Are OBL, FACW, or FAC:	150 (A/B)
S					
7,				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
B	2/			OBL species x	1 =
50% of total cover:	<u> </u>	= Total Co	ver /	FACW species x	
50% of total cover:	20% o	f total cove	r. <u> </u>	I	
Sapling/Shrub Stratum (Plot size: 30' X30')				FAC species x	
ITIEX OPACO	10	\/	TAC	FACU species x	4 =
2 Persea boriogia	10	Ť	FYCM	UPL species x	5 =
		· -{-,	. FYCM	Column Totals: (A	
3. Vaccinium rorymbolshim	<u></u>	<u> </u>	. <u>-</u>	(Coldinar Foldie: (, ——— (- /
4. Magnolia grandiflura	a	<u> </u>	FAC	Prevalence Index = B/A =	:
5				1	
				Hydrophytic Vegetation Indica	
6				Rapid Test for Hydrophy	
7				2 - Dominance Test is >509	%
8				☐ 3 - Prevalence Index is ≤3.	01
	」っつ	= Total Co	over	Problematic Hydrophytic V	
50% of total cover: 8 t	5 20%	- of total cove	<u> 3.14</u>	1 toblematic (lydrophytic vi	sgetation (Enplain)
			J.,	1	
Herb Stratum (Plot size:) 1. WOULD WOLL A A FEOLONA		\ 1	0BL	'Indicators of hydric soil and we	atland hydrology must
1. WOULDAGE STEDIALS	<u> </u>	_ ————		be present, unless disturbed or	problematic.
2				Definitions of Four Vegetatio	n Strata:
3]	
				Tree Troody plants, excluding	
4				 more in diameter at breast height. 	ant (DBH), regardless of
5				- Height:	
6				_ Sapling/Shrub - Woody plant	s, excluding vines, less
7				than 2 in DDU and propter the	ın 3.28 ft (1 m) tall.
					13 1
8				 Herb – All herbaceous (non-w of size, and woody plants less 	oody) plants, regardless
9				_ or size, and woody plants less	than 3.20 it tan.
10				- Woody vine - All woody vine:	s greater than 3.28 ft in
11.				_ height	Ü
12.				_	
12.	_ <	— — — — — — — — — — — — — — — — — — —		_ [
2	<u> </u>	= Total (١.		
50% of total cover: 2	20%	6 of total co	ver:	_ }	
Woody Vine Stratum (Plot size: 30 X301)	_			}	
1. Smilax rutundirulia	5	1/	FAC	_	
2. Lonicera Japonica			FAC	-	
2. CURICETA JARONICA		— 		=	
3		_]	
4				_]	
5.				Huden etc. 41	
V	- 10			— Hydrophytic Vegetation լ	
	<i>,</i> —		. ~	Present? Yes	No
50% of total cover:	20	% of total c	over:	_ 1.000	
Remarks: (If observed, list morphological adaptations t	pelow).			i .	
_					
+					

Profile Desc	cription: (Describe t	o the dan	th needed to docum	nent the fr	ndicator o	or confirm	the absence of	f indicators)	
Depth	nemon: (beschber) Matrix	o me neb		x Features		00,,,,,,,,,,	and appende Of		
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type ¹	Loc ²	Texture	Remar	ks
0-8	10424/2	G_{OI}					SL		
8-14	104R5/2	98	104RS14	2		70	SL		
14-20	WYRS/2	70	10485/1	2 ()	7	M	3L		
176 00	100/1-3/2		7	_ <u></u> _					
				-					
_								<u> </u>	
¹Type: C=C	concentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	² Location: §	PL=Pore Lining, M=1	Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise not	ed.)	•	Indicators f	or Problematic Hye	dric Soils³:
☐ Histoso	l (A1)		Polyvalue B	elow Surfa	ce (S8) (L	.RR S, T, L		uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)	
_	fistic (A3)		Loamy Mucl	-		₹ 0)		ed Vertic (F18) (outs	
	en Sulfide (A4) ed Layers (A5)		Loamy Gley Depleted Ma		(F2)			nt Floodplain Soils (lous Bright Loamy S	
	c Bodies (A6) (LRR P	. T. III	Redox Dark		F6)			(A 153B)	0113 (1 20)
	lucky Mineral (A7) (LI						1 1 '	rent Material (TF2)	
	resence (A8) (LRR L		Redox Depi				☐ Very SI	hallow Dark Surface	
1 cm N	luck (A9) (LRR P, T)		Marl (F10) (•			L Other (Explain in Remarks))
$\cdot = \cdot$	ed Below Dark Surfac	e (A11)	Depleted O				- 3, ,,		
	Dark Surface (A12)	NU DA 45	Iron-Manga					ators of hydrophytic	
	Prairie Redox (A16) (Mucky Mineral (S1) (land hydrology must ess disturbed or prol	•
_	Gleyed Matrix (S4)	LKK O, S	Reduced V					sas distarbed or pro-	·
	Redox (S5)		Piedmont F						
	ed Matrix (S6)						RA 149A, 153C	, 153D)	
	Surface (S7) (LRR P,								<u>.</u>
Restrictiv	e Layer (if observed):					1		
Type: _							 		
Depth (inches):						Hydric Soil	Present? Yes _	No
Remarks:									
1									
1									
ļ									
									•
									,
									<u> </u>



Wetland data point $wnao010f_w2$ facing south.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ACP City/County: NaSh Applicant/Owner: DOM MICA Investigator(s): EST - K. MUTPLIVELY J. GAY Section, Township, Range: NA Local relief (concave, convex, none): Lanvex Landform (hillslope, terrace, etc.): hillslope Subregion (LRR or MLRA): LRR P Soil Map Unit Name: RAINS SONCY LOAM NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ __ (If no, explain in Remarks.) Are Vegetation _____, Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes_ is the Sampled Area Hydric Soil Present? Yes____ No _ within a Wetland? Wetland Hydrology Present? Remarks: Data **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) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes ____ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

GETATION (Four Strata) — Use scientific ha		Sampling Point.
ee Stratum (Plot size: 30 × 30)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
non?		I mat Are OBL, FACVV, of FAC (A)
		Total Number of Dominant
		Species Across All Strata: (B)
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of:Multiply by:
	= Total Cover	OBL species x 1 =
500/ - 51-1-1		FACW species x 2 =
50% of total cover:	20% of total cover:	FAC species x 3 =
apling/Shrub Stratum (Plot size: 30×30)		FACU species x 4 =
NONE		UPL species 100 x5 = 500
•		Column Totals: 100 (A) 500 (B)
•		
		Prevalence Index = B/A =5
		1 3
·		- ∐ 3 - Prevalence Index is ≤3.0¹
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	- (
<u>-lerb Stratum</u> (Plot size: <u> </u>		¹Indicators of hydric soil and wetland hydrology must
1. Glycine max (Soybeans)	100 Y UPL	be present, unless disturbed or problematic.
2.		Definitions of Four Vegetation Strata:
		-
3		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of height.
5		- Meigra.
6		
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.		Herb – All herbaceous (non-woody) plants, regardless
9		of also and wondy plants loss than 2.20 ft tall
•		
10		rioday inid
11		height.
12		_
50% Of total cover.	50 20% of total cover: 20	
Woody Vine Stratum (Plot size: 30 x 30		_ {
100.0		ļ
<u> </u>		 [
2		
3		 .
4		 [
5		— Hydrophylic
	O = Total Cover	Vegetation
EDD/ of total across	20% of total cover:	Present? Yes No
		-
Remarks: (If observed, list morphological adaptations	below).	
active soybean fiel	1.0 ·	
· · · · · · · · · · · · · · · · · · ·		
·		
1		

	cription: (Describe to the de		nent the i x Feature		or confirm	the absence of	indicators.)
Depth inches)	Matrix Color (moist) %	Color (moist)	<u> %</u>	Type ¹	_Loc ²	Texture	Remarks
7-5	104RS/2	104RS/4	2	\subset	Μ	SCL	
(1)	104R5/2	104RS/4	3	$\overline{}$	$\overline{\Lambda}$	SL	
214	109115/2	10.054	$\overline{}$		$\overline{\wedge}$		<u> </u>
F-90)	10GRS/1	104K3/4				(oarse	3C1
Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck F 1 cm M Deplete Thick D Sandy Sandy Sandy Strippe Dark S Restrictive Type: Depth (Concentration, D=Depletion, RI Indicators: (Applicable to a I (A1) Spipedon (A2) Sistic (A3) En Sulfide (A4) Ed Layers (A5) E Bodies (A6) (LRR P, T, U) Sucky Mineral (A7) (LRR P, T, Presence (A8) (LRR U) Surface (A12) Prairie Redox (A16) (MLRA 1 Mucky Mineral (S1) (LRR O, Gleyed Matrix (S4) Redox (S5) Ed Matrix (S6) Surface (S7) (LRR P, S, T, U) E Layer (if observed): Sinches): Surface (S7) (LRR P, S, T, U)	All LRRs, unless other Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark U) Depleted Da Redox Depr Marl (F10) (i Depleted Oc Iron-Mangai SoA) Umbric Surf Reduced Ve Piedmont F Anomalous	rwise no elow Surficurface (Stoy Minera ed Maritx (F3) Surface eark Surface eark Surface (F17) (hence Masface (F17) (hertic (F18) loodplain	ted.) ace (S8) (I 9) (LRR S, II (F1) (LRI c (F2) (F6) ce (F7) (F8) I) (MLRA Sses (F12) I) (LRR P, MLRA 151 I) (MLRA 1	LRR S, T, U T, U) R O) (LRR O, P T, U)) (50A, 150E	2Location: P Indicators for J 1 cm Mu 2 cm Mu 2 cm Mu Piedmor Anomalo (MLR/ Red Par Very Sh Other (E	PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : uck (A9) (LRR O) uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B) nt Floodplain Soils (F19) (LRR P, S, T) ous Bright Loamy Soils (F20) A 153B) rent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) estors of hydrophytic vegetation and and hydrology must be present, ass disturbed or problematic.



Upland data point wnao010_u facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACP ___ City/County: NaSh Applicant/Owner: Dominion Investigator(s): ESI-K. MURPhrey 15.647 Section, Township, Range: NA Landform (hillslope, terrace, etc.): <u>repression</u> Local relief (concave, convex, none): CONCOVE Subregion (LRR or MLRA): LRRP Soil Map Unit Name: Rains Sondy LOAM Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) ___, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ___, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation ____ 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: 2 inches cf rain 8/1-8/2 **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Marl-Deposits (B15) (LRR U) Drainage Patterns (B10) → High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

EGETATION (Four origin) See solutions ha		· · · · · · · · · · · · · · · · · · ·	
20' v 20'		ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' ×30'		ecies? _Status	Number of Dominant Species
1. Liriodendrun tulipifera	<u>20 </u>	/ FACU	That Are OBL, FACW, or FAC:(A)
2. SOVIX DIOVA	70 5	OBL	li li
	. _ ` _ · _ ·		Total Number of Dominant
3. Liquidambor Styracistha		FAC	Species Across All Strata: (B)
4. Liquistrum sinense	5 \	FAC	A S.
4. O COLORS (TORES) BRANCE P. P.		 	Percent of Dominant Species 42 % (A/B)
5			That Are OBL, FACW, or FAC:
6			
			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
8			
	45_= TO	ntal Cover	OBL species x1 =
<u>ን</u> ጎ.	<u> </u>	<u></u>	FACW species x 2 =
50% of total cover:	20% of tota	al cover:	
Sapling/Shrub Stratum (Plot size: 30'X30')			FAC species x 3 =
1. Liquistrum sinense	5	Y FAC	FACU species x 4 =
1. Ligustium Siners			UPL species x 5 =
2. Liquitambor Staracifica		Y/FAC	
3. Magnolia Virginiana	5 (// FACW	Column Totals: (A) (B)
	- 		}
4			Prevalence Index = B/A =
5			
-			Hydrophytic Vegetation Indicators:
6			Rapid Test for Hydrophytic Vegetation
7		<u> </u>	2 - Dominance Test is >50%
•			1
8	- <u>-</u> - -		☐ 3 - Prevalence Index is ≤3.01
	<u> スン</u> =T	otal Cover	Problematic Hydrophytic Vegetation (Explain)
50% of total cover:	20% of to	al cover: V	1 Tobichidis Hydrophydd Yegeldaini (Explant)
フルソつ()	20 /6 01 (0)	al cover.	
Herb Stratum (Plot size: 30 1×301)	_		¹ Indicators of hydric soil and wetland hydrology must
1. Rhous avgutus	S	V FAC	be present, unless disturbed or problematic.
	<u> </u>	TACK	
2. Boehmeria Cylindrica	_ 		. • • • • • •
3. Adlantum capillus-veneris	2 _	1/ FACG	Turn 185 - du ulanta avaludina vinas 2 in (7.6 am) or
		,	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4			more in diameter at breast height (DBH), regardless of
5			height.
6			Carling (Objects - Monday along a valuating vines 1000
6			Sapling/Shrub – Woody plants, excluding vines, less
7			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			Hart All had a serve (new years) whether respondings
			1.0,0 / 1.1.0.000000 ()
9			of size, and woody plants less than 3.28 ft tall.
10			Manada view Allows develops are also then 2.29 ft in
			- Woody vine - All woody vines greater than 3.28 ft in
11	 -		_ height.
12.			_
		Total Cover	
1		~~	1
50% of total cover:	<u>,) </u>	otal cover:5	_
Woody Vine Stratum (Plot size: 301×301)			
YVOODY VANE Stratum (Flot size.	10	VI EM	•
1. Vitis rotundifolia	<u> </u>	V PAC	·
2.		1	
2			-
3			_
4			
			-
5			— Hydrophytic
	10 .	Total Cover	Vegetation
	A	,	Present? Yes No
50% of total cover:	20% of	total cover:	<u> </u>
Remarks: (If observed, list morphological adaptations	below).		
Transition (ii observed, not morphological adaptations			
\			
1			

Profile Desc	ription: (Describe t	to the dep	th needed to docum	nent the i	indicator (or confirm	the absence of ir	ndicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	<u>- % - </u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
<u>0-5</u>	104RS/2	1/	104RS/4	٠ ـــــــ	· —	<u>TL</u>	<u>scl</u> _		
			104RS/1	<u> </u>		$\overline{\mathcal{M}}$			
5-6	104R5/6	100					SCL_		
6-18	104R4/2	9-56	104RS/4	<u>a</u>	($\overline{\mathcal{M}}$	SEL		
16-20	104RG/1	48	109RS/4	2	C	\sim	(DON'X	SCL	
	1:		.,						
					·				
1 		lotion DM	=Reduced Matrix, M	S-Marka	d Sand Gr		2l ocation: Pl	=Pore Lining, M=Mai	
Type: C=C	oncentration, D=Dep	able to al	I LRRs, unless othe	rwise no	ted.)	airis.		Problematic Hydric	
∏ Histoso!		, ap. 10 to a	Polyvalue B			.RR S, T, 1	[]	k (A9) (LRR O)	
	pipedon (A2)		Thin Dark S				2 cm Muc	k (A10) (LRR S)	
_	listic (A3)		Loamy Mucl			₹ 0)		Vertic (F18) (outsid e	
	en Sulfide (A4)		Loamy Gley		(F2)	•	7-1	Floodplain Soils (F1	• •
_	d Layers (A5)	. T	Depleted Ma		/Ee\		Anomaiot	is Bright Loamy Soils	s (F2U)
	: Bodies (A6) (LRR Г ucky Mineral (A7) (L		=		` '			nt Material (TF2)	
=	resence (A8) (LRR 1		Redox Depi					llow Dark Surface (T	F12)
🔲 1 cm M	luck (A9) (LRR P, T)		☐ Marl (F10) ((LRR U)				plain in Remarks)	
Deplete	ed Below Dark Surfa		Depleted O				3		
	Park Surface (A12)		Iron-Manga					ors of hydrophylic ve	
	Prairie Redox (A16)							nd hydrology must be s disturbed or proble	
_	Mucky Mineral (S1) Gleyed Matrix (S4)	(LKK U, S	Reduced V					s distarbed or problem	mano.
	Redox (S5)		Piedmont F						
_	ed Matrix (S6)						.RA 149A, 153C, 1	53D)	
	urface (S7) (LRR P,								
Restrictive	Layer (if observed	i):					Ì		
Type: _]		/
	inches):						Hydric Soil P	resent? Yes	No
Remarks:									
									,
	,								
								\	
1									
1									



Wetland data point wnao009f_w facing southeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ACP _ City/County: N あらい Applicant/Owner: Dom (nron State: NC Sampling Point: Whao Investigator(s): ESI-K. MUPB VEY (J. 64 Section, Township, Range: NA Local relief (concave, convex, none): _______ Lat: 35. 83876 Long: -78, O1864 Subregion (LRR or MLRA): LRRP Soil Map Unit Name: Rains Sondy loam No _____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _ 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? **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required: check all that apply) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Drainage Patterns (B10) Marl Deposits (B15) (LRR U) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Depth (inches): Wetland Hydrology Present? Yes _ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

10 20	Absolute Dominant Indicator	Dominance Test worksheet:
ee Stratum (Plot size: 30×30	% Cover Species? Status	Number of Dominant Species
none		That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
		Species Across Ali Strata: (B)
<u> </u>		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x1=
	20% of total cover:	FACW species x 2 =
apling/Shrub Stratum (Plot size: 30×30)		FAC species x3 =
		FACU species 00 x 4 = 400
		UPL species x5 =
		Column Totals: 100 (A) 400 (B)
		Prevalence Index = B/A =
		Inyurophytic vegetation indicators. I 1 - Rapid Test for Hydrophytic Vegetation
		- 2 - Dominance Test is >50%
		- ☐ 2 - Dominance Test is >50% - ☐ 3 - Prevalence Index is ≤3.0¹
·	= Total Cover	1 = · · · · · · · · · · · · · · · · · · ·
50% of total cover:	20% of total cover:	Problematic Hydrophytic Vegetation (Explain)
	20 % Of total cover:	-
Herb Stratum (Plot size: 30) . GOSSYPium hirsutum	100 & FAC	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
1		more in diameter at breast height (DBH), regardless of height.
ō		-
6		
7		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
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		height.
12		
	100 = Total Cover	'
	50 · 20% of total cover: 20	
Woody Vine Stratum (Plot size: 30 x 30)		
1. NONC		_ {
2.		
3		
4		- [.
5	= Total Cover	Hydrophytic Vegetation
FOR effect access		Present? Yes No No
	20% of total cover:	
Remarks: (If observed, list morphological adaptations	below).	
active rotton field		

		to the den	th meaded to decum	ent the i	ndicator (or confirm		indicators.)	
Profile Desc	ription: (Describe)	to the dep	ur needed to docum				the absence of		1
Depth	Matrix		Redox	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	<u>Texture</u>	Remark	S
7-8	104RS/3	100			•		L CODYSE	2.5	
		100							
8-18	104RS/2								
8-22	104RS/2	95	104R5/6	5	(\sim	LS		ļ
0 00	100/110/ 02	· <u></u>	104117	·	· ——				
	concentration, D=Dep					ains.		L=Pore Lining, M=M	
lydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise no	ted.)		Indicators fo	or Problematic Hyd	ric Soils ³ :
Histoso	I (A1)		Polyvalue Be	elow Surfa	ace (S8) (I	LRR S. T. I	ບ) 🔲 1 cm Mu	ıck (A9) (LRR O)	
	pipedon (A2)		Thin Dark S					sck (A10) (LRR S)	
								d Vertic (F18) (outsi	do MI RA 150A R\
	listic (A3)		Loamy Muck			το,			
	en Sulfide (A4)		Loamy Gley		(FZ)			nt Floodplain Soils (F	
Stratifie	ed Layers (A5)		Depleted Ma					ous Bright Loamy So	olis (F20)
🗌 Organi	c Bodies (A6) (LRR i	P, T, U)	Redox Dark	Surface ((F6)			A 153B)	
	lucky Mineral (A7) (L		l) 🔲 Depleted Da	ark Surfac	e (F7)			rent Material (TF2)	
	resence (A8) (LRR		Redox Depr				<u></u> Very Sh	nallow Dark Surface	(TF12)
=	Muck (A9) (LRR P, T)	-	☐ Marl (F10) (•			Explain in Remarks)	
	ed Below Dark Surfa		Depleted O		\/MLRA	151)		,	
		ce (ATT)	iron-Manga				T) ³ Indic	ators of hydrophylic v	hne noitetana
	Dark Surface (A12)								
	Prairie Redox (A16)							and hydrology must l	•
Sandy	Mucky Mineral (S1)	(LRR O, S) 🔛 Delta Ochri	c (F17) (N	/ILRA 151)	unie	ess disturbed or probl	lematic.
Sandy	Gleyed Matrix (S4)			ertic (F18) (MLRA 1	150A, 150E	3)		
Sandy	Redox (S5)		☐ Piedmont F	loodplain	Soils (F19) (MLRA 1	149A)		
	ed Matrix (S6)		-	•	-		.RA 149A, 153C,	, 153D)	
	Surface (S7) (LRR P,	CILTS				(· = • / (···-		, ,	
			 						
Rectrictiv									
14651110114	e Layer (if observed	1):							
Type:_	e Layer (if observed	i): 							
Type:_		1): 					Hydric Soil	Present? Yes	No
Type: _ Depth	e Layer (if observed	1): 					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1): 		-			Hydric Soil	Present? Yes	No
Type: _ Depth		1): 					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth							Hydric Soil	Present? Yes	No
Type: _ Depth							Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type:_		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No
Type: _ Depth		1):					Hydric Soil	Present? Yes	No



Upland data point wnao009_u facing east.

Project/Site: ACP	City/County:	ash	Sampling Date: 10/2/14
Applicant/Owner: 12010 10 10 10		State: /VC	Sampling Point: Wnap 006f. u
Investigator(s): EST-R. TUMBUIL, K. MUPPINEY	_ Section, Township.	Range: NA	
Landform (hillslope, terrace, etc.): dep(ession) Subregion (LRR or MLRA): LRRP Lat: 35.	_ Local relief (concav	ve, convex, none):	(CAVE Slope (%): 0-2
Subregion (LRR or MLRA): LRRP Lat: 35.	83813	_ Long: <u>-78, 01</u>	711 Datum:\N65 84
Soil Map Unit Name: Rains Fine Sondy Loar	\sim	NWI cla	ssification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	year? YesN	lo (If no, explain	
Are Vegetation, Soil, or Hydrology significantl	ly disturbed?	Are "Normal Circumstand	pes" present? Yes Vo No
Are Vegetation, Soil, or Hydrology naturally p		(If needed, explain any a	
SUMMARY OF FINDINGS Attach site map showin	ıg sampling poi	nt locations, trans	ects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	- Is the Sam withiπ a W	•	No
HYDROLOGY			
Wetland Hydrology Indicators:		_	Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply Surface Water (A1) Aquatic Fauna (E			e Soil Cracks (B6) ly Vegetated Concave Surface (B8)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B Marl Deposits (B) i	ge Patterns (B10)
Saturation (A3) Hydrogen Sulfide			rim Lines (B16)
	pheres along Living F		ason Water Table (C2)
Sediment Deposits (B2) Presence of Red Presence of Red	fuced Iron (C4) fuction in Tilled Soils	= '	tion Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3) ☐ Recent Iron Red☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfa			orphic Position (D2)
Iron Deposits (B5) Other (Explain in			w Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)			leutral Test (D5)
Water-Stained Leaves (B9)		Sphag	num moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inch	on. NA		ļ
Water Table Present? Yes No Depth (inch	ies): 720jo.		
Saturation Present? Yes V No Depth (inch		Wetland Hydrology	Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos previous inspe	ctions) if available:	
Describe Necorded Data (Aream gauge, mormoring wen, acras pr	iotos, promoto mopo	ononey, ii aranabioi	
Remarks:			
	•		
!	•		
		1 751	

245 24 14	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30F4, ×30 F4)	% Cover			1
1. Liquidambar styraciflua	10	1/	FAC	Number of Dominant Species
	15	-y		That Are OBL, FACW, or FAC:(A)
2. ACEC VLIOYGM	13		FAC	Total Number of Dominant
3. Listiodend to a tulipitera.	フ	N	FACU	Species Across All Strata: (B)
				(D)
4				Percent of Dominant Species (C) (1)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				OBL species x 1 =
		= Total Co		
50% of total cover: 17,	5 20% of	total cover	6.4	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 ft. x 30ft)				FAC species x 3 =
Sapinique Stratum (Flot size. = = 1777321)	10	V	FAC	FACU species x4 =
1. Ligustrum sinense				1
2. NYSSA SYLVATICA		4	FAC	UPL species x 5 =
3. Liquidambor sturaciflua	. 10	V	FAC	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	r. 4.4	Troblemations displayed vegetation (Explain)
31 FL × 31 C4		. (0(4) 0010	··· <u></u>	
Herb Stratum (Plot size: 30 Ft x 30 Ft)	-	V	~@I	Indicators of hydric soil and wetland hydrology must
1. Woodwardia areolata	<u>ユ</u>		<u>O</u> BL	be present, unless disturbed or problematic.
2. Rubus aroutus	10	Y	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.
1				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
				or one and troody plants loss than one it tall.
				1
10.				Woody vine - All woody vines greater than 3.28 ft in
10				Woody vine - All woody vines greater than 3.28 ft in height.
10				trees, the range greater than one it in
10				trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15		over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	over	trees, the range greater than one it in
10	15 5 20% o	= Total Co	over	trees, the range greater than one it in
10	. 15	= Total Co	pover er: 3 FAC	height.
10	15 20% 0	= Total Cove	FAC	height. Hydrophytic
10	15 20% o 10 10 5 20% o	= Total Co	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation
10	15 20% o 10 10 5 20% o	= Total Cove	FAC	height. Hydrophytic Vegetation

	inption: (Describe	to the de	pth needed to do	ument the	indicator	or confirm	the absence of	of indicators.)	
Depth	Matrix (maint)	%	Color (moist)	dox Feature %	es Type¹	_Loc²	Towlers	Remark	' 0
(inches)	7,54R3/2	40	2,34R3/6		C	<u> </u>		Remain	<u></u>
0-6	10101012								·
6-20	CHK 47.2	90	2.57R4/	10		<u>M</u>	CL.		
									
					-				
	-								
[‡] Type: C=C	oncentration, D=De	letion RA	A=Reduced Matrix	— —— MS=Maska	d Sand Gr	aine	2) ocation:	PL=Pore Lining, M=M	latriy
	Indicators: (Applie					an 13.		for Problematic Hyd	
☐ Histoso	•		_	Below Surf		.RR S, T, L		uck (A9) (LRR O)	
	pipedon (A2)		Thin Dark	Surface (S) (LRR S,	T, U)	2 cm M	uck (A10) (LRR S)	
. =	istīc (A3)			ucky Minera		(O)		ed Vertic (F18) (outsi	
	en Sulfide (A4)			eyed Matrix	(F2)			ont Floodplain Soils (F	
. =	d Layers (A5) : Bodies (A6) (LRR I) T II\		Matrix (F3) irk Surface i	'E6)			lous Bright Loamy So A 153B)	iis (F20)
	ucky Mineral (A7) (L			Dark Surface				rent Material (TF2)	•
	resence (A8) (LRR			pressions (hallow Dark Surface (TF12)
ı =	uck (A9) (LRR P, T)) (LRR U)			U Other (Explain in Remarks)	
	ed Below Dark Surfa	ce (A1 1)		Ochric (F11			- 3 _{1 . 1}		
_	ark Surface (A12) Prairie Redox (A16) (MI PA 15		ganese Mas urface (F13)				ators of hydrophytic v land hydrology must t	
	Mucky Mineral (S1)		· —	nric (F17) (N	-	•		ess disturbed or proble	
	Gleyed Matrix (S4)		•	Vertic (F18)				•	
	Redox (S5)		700	Floodplain	•	•	•		
_	d Matrix (S6)			us Bright Lo	amy Soils	(F20) (MLF	RA 149A, 153C,	, 153D)	
	urface (S7) (LRR P, Layer (if observed				-		1		
Type:	Layer (ii observed	<i>)</i> .							
1	nches):						Hydric Soil	Present? Yes	No
Remarks:									
						· -	<u>. l</u>		· · · · · · · · · · · · · · · · · · ·
1									
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Wetland data point wnap006f_w facing southwest.

Project/Site: ACP	City/County: Nash Sampling Date: 10/2/1/4
Applicant/Owner: Dom inton	State: NC Sampling Point: wnap 006-4
Investigator(s): FST-R. TUINOUIII, K. MUIPHRY	Section Township Range: NA
Landform (hillstone tormon etc.): h illSIOP-C	Local relief (concave, convex, none): CONEX Slope (%): 2-4
Cartonian (I BB and I BA) 1 - CR P	Local relief (concave, convex, none): <u>CONEX</u> Slope (%): <u>2-4</u> 83844 Long: <u>78,019.06</u> Datum: <u>W65.8</u>
Subregion (LRR of MLRA): Lat. 55.	NWI classification: NA
Soil Map Unit Name: Rains Fine Sordy look	
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantl	
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Committed Asset
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Hydrophytic Vegetation Present? Hydric Soil Present? Wes No Yes No Wetland Hydrology Present? Yes No No Ves No	within a Wetland? Yes No
Remarks:	
Side of existing form road.	
	İ
LIVER OF CONTRACT	
HYDROLOGY	Consider the displace (minimum of the required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply	<u> </u>
Surface Water (A1) High Water Table (A2) Aquatic Fauna (E	
Saturation (A3) Hydrogen Sulfide	
	pheres along Living Roots (C3)
Sediment Deposits (B2) Presence of Red	·
Drift Deposits (B3) Recent Iron Red	uction in Tilled Soils (C6)
Algal Mat or Crust (B4)	
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: Surface Water Present? Yes No Depth (inch	non NA
Surface Water Present? Yes No Depth (inch Water Table Present? Yes No Depth (inch	(es): 720"
Saturation Present? Yes No V Depth (inch	nes): 20° Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	iotos, previous inspections), if available:
Remarks:	
•	
1	

VEGETATION	(Four Strata)) - Use s	cientific	names of	plants.
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VEGETATION (L'Out Outleau)	Absolute	D	Indicates	Dawley and Task westsheet.
Tree Stratum (Plot size: 30Ff. X 10ff.)	Absolute <u>% Cover</u>	Dominant Species?		Dominance Test worksheet:
Tree Stratum (Plot size:	70 COVE	<u>apecies:</u>		Number of Dominant Species 4
1. Liquidambar Styraciflua		-1 -	FAC	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
· 3				Species Across All Strata: (B)
			I	opecies Acioss Air Strata.
4				Percent of Dominant Species S/O U
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80 90 (A/B)
6				
· · ·				Prevalence Index worksheet:
7		-	· 	Total % Cover of: Multiply by:
8				
	5_	= Total Co	ver Ì	OBL species x 1 =
50% of total cover: 🔼	5 20% of	Fitotal cove	. [FACW species x 2 =
24 A: 11/16	207801	total cove	'·— - —	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30H, XIOH.)	E	1/		
1. Liquistrum sinense	5		FAC	FACU species x 4 =
2. 3		,		UPL species x 5 =
			·	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
		= Total Co		l
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2.	<u> </u>	f total cove	er:	
Herb Stratum (Plot size: 30ft. x 10ft.)				Indicators of hydric soil and wetland hydrology must
1. Microstegiam vimineum	20)	V	FAC	be present, unless disturbed or problematic.
The content of the co				
2. Phytolacca omericana		<u> </u>	FACG	Definitions of Four Vegetation Strata:
3. Arundinaria gianntea	_ 5	_ У	FACW	Total Manda stanta evaluding vines 2 in (7.6 cm) of
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				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 tail.
10				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
l				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	35	_ = Total C	over	
50% of total cover:				\ .
	20% (of foral cov	ег:	
Woody Vine Stratum (Plot size: 30 ft, x 10 ft.)	\sim		_	
1. Smilax rotundifolia	1	N	FAC	
			_ +	
2			_ `	
3				
4.				
5				Hydrophytic
		_ = Total C	over (Vegetation Present? Yes No
50% of total cover:	20%	of total cov	er 0. 4	Present? Yes V No No
		0. 10101 001	···	•
Remarks: (If observed, list morphological adaptations b	elow).			
				•

Frome Desc	nption: (Describe t	o the dep	th needed to docum	ient the n	naicator or contini	the absence of in	aidatoroij
Depth	' Matrix			Features			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹ Loc ²	Texture	Remarks
<u>0-7</u>	7.54R 3/2	100				<u> </u>	
2-5	7,54R3/1	90	2.54R4/6			<u> </u>	
5-14	7. SyR <u>5/8</u>	<u> 70</u>	7. SUR4/6	15			
	· · /		25/6/3	15		<u>C</u> .	
14-20	104R4/3	100				レく	
1	10/11/2						
i -	<u> </u>						
			=Reduced Matrix, MS				Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Application	able to all	LRRs, unless other				Problematic Hydric Soils ³ :
Histoso			= ·		ce (S8) (LRR S, T, I		(A9) (LRR O)
	pipedon (A2)				(LRR S, T, U)		(A10) (LRR S) ertic (F18) (outside MLRA 150A,B)
1 ==	istic (A3)		Loamy Mucky		(F1) (LRR O)		loodplain Soils (F19) (LRR P, S, T)
	en Sulfide (A4) d Layers (A5)		Depleted Mat		(- 2)		Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	. T. U)	Redox Dark	٠,	- 6)	(MLRA 1	*
	ucky Mineral (A7) (LF		=	•	•		: Material (TF2)
	resence (A8) (LRR U		Redox Depre		` '		w Dark Surface (TF12)
	uck (A9) (LRR P, T)			.RR U)	1	Other (Expl	lain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oct		·		
I =	ark Surface (A12)				es (F12) (LRR O, P	•	s of hydrophytic vegetation and
	rairie Redox (A16) (I				(LRR P, T, U)		hydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)					disturbed or problematic.
	Gleyed Matrix (S4)				(MLRA 150A, 150B Soils (F19) (MLRA 1		
	Redox (S5) d Matrix (S6)					+9A) RA 149A, 153C, 15:	RD)
	urface (S7) (LRR P, \$	s. T. U)	Allottialous L	Jigiii Loa	iny cons (1 20) (inc	144 1404, 1000, 100	,,,
		-, ., -,					
Restrictive	Laver (if observed)	:	<u> </u>				-
1	Layer (if observed)	:					
Type:	· · ·	:				Hydric Soil Pre	sent? Yes No
Type: Depth (ii	· · ·	:				Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		2015ide			Hydric Soil Pre	sent? Yes No
Type: Depth (ii	· · ·		oadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		oadside			Hydric Soil Pre	sent? YesNo
Type: Depth (ii Remarks:	nches):		vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):		oadside		=	Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	nches):	11, 6	vadside			Hydric Soil Pre	sent? YesNo
Type: Depth (ii Remarks:	moderio	11, 6	vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	vadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside			Hydric Soil Pre	sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? YesNo
Type: Depth (ii Remarks:	moderio	11, 6	vadside			Hydric Soil Pre	sent? YesNo
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? Yes No
Type: Depth (ii Remarks:	moderio	11, 6	oadside				sent? Yes No



Upland data point wnap006_u facing northeast.

Project/Site: ACP	city/County: NOSK	Sampling Date: <u>7/31/14</u>
Applicant/Owner: Dominion	Only, document, <u></u>	State: NC Sampling Point: What OOSF-W
Investigator(s): ESI - K, MUYPh(P)/J, 6	Section Township Range:	NA
Landform (hillslope, terrace, etc.): \(\frac{\frac{1}{4}}{4}\)	1	none): None Slope (%): U-Z
Subregion (LRR or MLRA): LQRP Lat: 33	5, 83229 Long: -	78,02347 Datum: W584
		Datum: TV CSO
Soil Map Unit Name: Kains Sondy Loam		NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of	•	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No	Is the Sampled Area within a Wetland?	Yes No
Remarks:		
·		
HYDROLOGY	·	
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap		Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna	•	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) High Water Table (A2)		Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfi Water Marks (B1) Oxidized Rhizo	spheres along Living Roots (C3)	
	educed Iron (C4)	Crayfish Burrows (C8)
	duction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Geomorphic Position (D2)
Iron Deposits (B5)	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:	414	
Surface Water Present? Yes No Depth (inc	hes):	
Water Table Present? Yes No Depth (inc	hes):	
Saturation Present? Yes No Depth (includes capillary fringe)	hes): / Metland I	Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections), if ava	ailable:
Remarks:		
		,
		•
		i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
		1
		s ,

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

21/1001	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30(X3))	% Сочег	Species?	Status	Number of Dominant Species
1. Pinus taeda	<u>20</u>	<u> </u>	<u>FK</u>	That Are OBL, FACW, or FAC:(A)
2. ACEN rubrum	<u> </u>	$\overline{\gamma}$	FAC	
				Total Number of Dominant
·				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 200 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	25	= Total Cov	or	OBL species x 1 =
	300	- Total Cov	e ~	FACW species x 2 =
50% of total cover: 12.5	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)	_	, ,		FACU species x 4 =
1. Magnolia Virginiana	<u> </u>		<u>FAC W</u>	
2 NUSSO SUNDATED	15	<u> Ý</u>	FAC_	UPL species x 5 =
3.				Column Totals: (A) (B)
7				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.01
	20	= Total Cov	/er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 1				Problematic Hydrophytic Vegetation (Explain)
	20 /8 0	I IUIAI COVCI	•—	
Herb Stratum (Plot size: 30 × 30)				¹ Indicators of hydric soil and wetland hydrology must
1. NONC				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Trong Meady plants evaluating virgos 2 in (7.6 cm) or
4				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			<u>·</u>	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
11	-			height.
12.	. ———			·
		= Total Co	ver	
50% of total cover:	20% o	f total cove	r:	. [
Woody Vine Stratum (Plot size: 30 X30)				
1. VITIS rotunditolia	5	У	CAP	
		· - 		•
2		• ———		•
3			. 	- [
4		 		<u> </u>
5				- Hydrophytic
	5	= Total Co	veri	Vegetation
50% of total cover: 2.4	20%	of total cove		Present? Yes No
		JI LOLZI COVE	'•	-
Remarks: (If observed, list morphological adaptations be	ow).			

l	cription: (Describe	to the dept				or confirm	the absence of ind	licators.)
Depth (inches)	Matrix	<u>%</u>		x Feature:		Loc ²	Toutura	Domodeo
(inches)	Color (moist) (OGR4/2	100	Color (moist)	<u> %</u>	_Type¹	LOU	Texture	Remarks
11- 1	· · · · · · · · · · · · · · · · · · · 			·				
4-8	100R S/1	(00)					<u> </u>	
6-20	104R S/1	95	104RSA	_ <			SCI	
	,		1.					
								
l 				. ——				
l 				. ——				
	. <u></u>	· · · · · · · · · · · · · · · · · · ·	W					
¹Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	rwise not	ed.)	 	Indicators for P	roblematic Hydric Soils ³ :
. ☐ Histoso			Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, L		A9) (LRR O)
	pipedon (A2)		Thin Dark Su					A10) (LRR S)
_	listic (A3)		Loamy Muck			(O)		rtic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Learny Gleye		(F2)			podplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	T 10	Depleted Ma		-c)			Bright Loamy Soils (F20)
	: Bodies (A6) (LRR P ucky Mineral (A7) (LI	-	=	•	•		(MLRA 15)	3B) Material (TF2)
	resence (A8) (LRR U		Redox Depre					v Dark Surface (TF12)
_	uck (A9) (LRR P, T)	,	Marl (F10) (L	•	-,		T -	in in Remarks)
_	d Below Dark Surfac	e (A11)	Depleted Oc		(MLRA 1	51)		,
│	ark Surface (A12)		🔲 Iron-Mangan	ese Mass	es (F12) (LRR O, P,		of hydrophytic vegetation and
I 7==	Prairie Redox (A16) (I		· =		•	, U)		ydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric					sturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ver			-		
	Redox (S5) d Matrix (S6)		Piedmont Flo				19A) RA 149A, 153C, 153[2)
	urface (S7) (LRR P, \$	S. T. U)	Anomaious I	Silgili Loai	iny oons (1 20) (NILIN	A 148A, 1550, 1551	<i>>)</i>
	Layer (if observed)						1	
Type:								
'' -	nches):						Hydric Soil Pres	ent? Yes No
Remarks:	,							
								•



Wetland data point wnao008f_w facing south.

Project/Site: ACP	City/C	ounty: Na Sh	Sam	pling Date: 7/31/14
111110		Ste	ster N 🗲 Sam	_{nling Point} WMQO UD_L
	nreg/J. Gaysectic			
andform (hillstope, terrace, etc.): Landform (hillstope, terrace, etc.): Soil Man Unit Name: Control of the control of t	Local	relief (concave, convex, no	ne): None	Slope (%): <u>U-2</u>
Subregion (LRR or MLRA): LRR	_{Lat.} 35, 83	alto Long: -	8,0232	Datum: W6384
Soil Map Unit Name: Rams Son	Ac 1000		NWI classification	NA
Are climatic / hydrologic conditions on the site typic	···-		-	
•				nt? Yes No
Are Vegetation, Soil, or Hydrology			plain any answers in	
Are Vegetation, Soil, or Hydrology			•	
SUMMARY OF FINDINGS – Attach sit	e map showing san	npling point location	is, transects, im	portant features, etc.
	No	Is the Sampled Area		
Hydric Soil Present? Yes	No No	within a Wetland?	Yes	No
Wetland Hydrology Present? Yes Remarks:	No			
HYDROLOGY				
Wetland Hydrology Indicators:			_	(minimum of two required)
Primary Indicators (minimum of one is required:	1		Surface Soil Cra	, , , , , , , , , , , , , , , , , , ,
Surface Water (A1)	Aquatic Fauna (B13) Marl Deposits (B15) (LI) II de	Sparsely Vegeta Drainage Patter	ted Concave Surface (B8)
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines	
Water Marks (B1)		along Living Roots (C3)	Dry-Season Wa	•
Sediment Deposits (B2)	Presence of Reduced I	ron (C4)	Crayfish Burrow	s (C8)
Drift Deposits (B3)	Recent Iron Reduction	, ,		le on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7		Geomorphic Po	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remains)	airs)	FAC-Neutral Te	
Water-Stained Leaves (B9)				s (D8) (LRR T, U)
Field Observations:		\(\lambda_{-}\)		
Surface Water Present? Yes No	Depth (inches):	4//		
Water Table Present? Yes No	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monit			Hydrology Present	Yes No
Describe Recorded Data (stream gadge, monit	tomig well, aeriai priotos,	previous inspections), it av	anapie.	
Remarks:				
			•	
				

	dicator Dominance Test worksheet:
Pinus taeda 15 y F	
	I Number of Dominatic Species
1 / 0 V 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	That Are OBL, FACW, or FAC:(A)
1,0-	FAC Total Number of Dominant O
Quercus rigid 5 N	Total Number of Dominant Species Across All Strata: (B)
Liquidambar Styracifica 10 4 1	-40
•	Percent of Dominant Species That are OBL FACW or FAC: (A/B)
	That is a beginner.
	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
	OBL species x1 =
50% of total cover: _20% of total cover:	
apling/Shrub Stratum (Plot size: 30 > 30)	
Liamidambar Styracistica (1)	FACU species x4 =
	FACY UPL species x5 =
	Column Totals:(A)(B)
Lightrum sinerse 5 y	
	Prevalence Index = B/A =
	
·	
·	
= Total Cove	
50% of total cover: 10 20% of total cover:	4
lerb Stratum (Plot size: 30 × 30)	
	Indicators of hydric soil and wetland hydrology must
hone	be present, unless disturbed or problematic.
··	Definitions of Four Vegetation Strata:
3.	
	Tree Troody Plants, excitaining times, our (110 and 1
·	more in diameter at breast height (DBH), regardless of height.
ō,	· · · · · · · · · · · · · · · · · · ·
3	Sapling/Shrub - Woody plants, excluding vines, less
7	than 3 in DBH and greater than 3.28 ft (1 m) fall
•	i i
В	
9	of size, and woody plants less than 3.28 ft tall.
10	
11	height.
12.	
= Total Co	
50% of total cover: 20% of total cove	r:
Woody Vine Stratum (Plot size: 3 リンスラン)	· ·
1. VILIS rotantisonia 15 y	FAC
	- 1700
2. SMIRX POTUNIFULA S Y	_ <u> </u>
3	
4.	
5	Hydrophytic
20_ = Total C	
	er: Present? Yes No
. 	
50% of total cover: 10 20% of total cover	
. 	
50% of total cover: 10 20% of total cover	
50% of total cover: 10 20% of total cover	
50% of total cover: 10 20% of total cover	
50% of total cover: 10 20% of total cover	
50% of total cover: 10 20% of total cover	

							,, 00,,,,,,,,,,	the absence of i	ndicators.)	
Depth	Matrix		C.1.		x Feature:		Loc ²	Toodure	Da	rico
inches)	Color (moist)	<u>%</u>	COIOF	(moist)		Type,	LOC"	Texture _	Rema	11V2
<u> フェカ _</u>	2,545/3	(OU					 -			
-20	2,56,5/2	98	2,54	5/3	2	\mathcal{L}	M_{\perp}	<u> 502 _</u>		
										
						. ——				
					- —	. ——				
	· 									
	Concentration, D=Dep						ains.		=Pore Lining, M=	
ydric Soil	Indicators: (Applic	able to all						_	Problematic Hy	ydric Soils":
] Histoso							.RR S, T, U	. –	k (A9) (LRR O)	
	pipedon (A2)			Thin Dark S					k (A10) (LRR S)	
	listic (A3)		=	oamy Muc	-		(O)			side MLRA 150A,B
=	en Sulfide (A4)			_oamy Gley		(F2)		· —	•	(F19) (LRR P, S, T)
	ed Layers (A5)		_	Depleted M					us Bright Loamy	Soils (F20)
	c Bodies (A6) (LRR P		==	Redox Dark				[] [MLRA		
•	lucky Mineral (A7) (Li		_	Depleted Da					ent Material (TF2)	
=	resence (A8) (LRR L	J)	=	Redox Dep	-	F8)			llow Dark Surfac	
=	luck (A9) (LRR P, T)			Marl (F10) i				Other (E)	kplain in Remarks	S)
_	ed Below Dark Surfac	ce (A11)	=	Depleted O	•		•			
	Dark Surface (A12)		=	_			(LRR O, P,			c vegetation and
	Prairie Redox (A16) (Umbric Sur					nd hydrology mus	•
_ `	Mucky Mineral (S1) ((LRR O, S)		Deita Ochri					s disturbed or pro	oblematic.
	Gleyed Matrix (S4)						50A, 150B)			
	Redox (S5)		H			•) (MLRA 14	•	(ESD)	
	ed Matrix (S6)	C T 115	ш	Anomaious	s ongnt LC	amy Solis	(rzu) (MLF	RA 149A, 153C, 1	1990}	
	Surface (S7) (LRR P, e Layer (if observed						· · · · · · · · · · · · · · · · · · ·			
):								
Type: _										1/
Depth	# - I. V.							Hydric Soil P	resent? Yes	<u> </u>
	(inches):									
Remarks:										
Remarks:										
temarks:										
emarks:										
temarks:										
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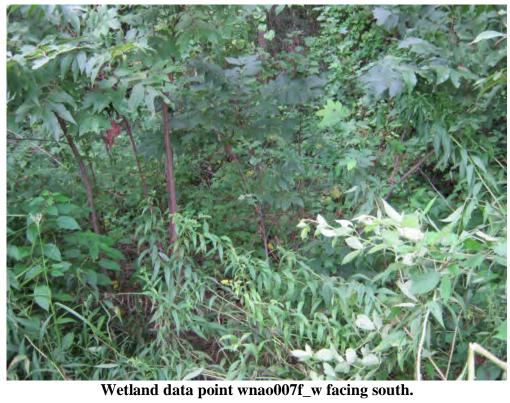


Upland data point wnao008_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region city/county: NOSh _ Sampling Date: 7/3 Project/Site: Sampling Point: WNQO007f.w Applicant/Owner: Down won Investigator(s): ESI - K. Mur phrey Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): none 82844 Subregion (LRR or MLRA): LRP Soil Map Unit Name: 「ハントハイ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) ___, Soil _____, or Hydrology ___ Are "Normal Circumstances" present? Yes __ 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? No_ is the Sampled Area Hydric Soil Present? Yes, No within a Wetland? Yes Wetland Hydrology Present? Remarks: **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) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Pattems (B10) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Field Observations: Depth (inches): Surface Water Present? Depth (inches): Water Table Present? Wetland Hydrology Present? Yes Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

720211(11011 (1 04) 01:444) 000 00				
Tree Stratum (Plot size: 301×301)		Dominan		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species'		Number of Dominant Species
1. liquidamoor Styrocistua	20	_ 9	FAC	That Are OBL, FACW, or FAC: (A)
2. Colmas amelicara	$\overline{\iota} \leq \overline{\iota}$	υ'		
	. 	· 7 .) 	F	Total Number of Dominant
3. Pinus taeda		/\	- PRC	Species Across All Strata: (B)
4			1	
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: // (A/B)
6				
				Prevalence Index worksheet:
7	. ——-			Total % Cover of: Multiply by:
8				
•	410	= Total Co	nuor.	OBL species x 1 =
2.4		_		FACW species x 2 =
50% of total cover: 20	20% o	of total cove	er: Z	
Sapling/Shrub Stratum (Plot size: 30 × 30			_	FAC species x 3 =
	20	V	FAON	FACU species x 4 =
1 Sambucus nigra	<u> </u>			
2. Bockhard halimito lia	· 5	У	FAO	UPL species x5=
	-	,		Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5	- —	- —		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
				1 - /
7		- —		2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	25	_ = Total C	over	Problematic Hydrophytic Vegetation ¹ (Explain)
17				Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 12.	20% (of total cov	er:	
Herb Stratum (Plot size: 30 × 30				¹Indicators of hydric soil and wetland hydrology must
1/412 5 01/541/4/5	<	У	EM	be present, unless disturbed or problematic.
1. Kunus prouters	_ 	- (/	- - /-	
2. MiCrostegiam Vimineum	10	_ /	<u> </u>	Definitions of Four Vegetation Strata:
3. JUNCUS effusis		- 	(1)BC	
3. 0000000 Ead 000 012			<u> </u>	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.
40				
12				•
	20	_ = Total (Cover, ,	
50% of total cover:/	() 20%	of total co	ver: ٦	
	2070	. J		-
Woody Vine Stratum (Plot size: 30 ≥ 30)		1.	-83	
1. VI+ 15 KOTUINAIFOLIA	10	Y	FAL	
- T				-
2				-
3.				_
				-
4				-
5.				− Hydrophytic ~
	Ih	= Total	Cover	Vegetation
	_ <u> </u>		/	Present? Yes No No
50% of total cover:	<u> </u>	6 of total co	ver: 👱	
Remarks: (If observed, list morphological adaptations b				
Remarks: (if observed, list morphological adaptations b	elow).			
,				
,				

Profile Desc	cription: (Describe	to the depth	needed to docum	ent the inc	licator o	r confirm t	he absence of	indicators.)	
Depth	Matrix			Features				•	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type'	Loc ²	<u>Texture</u> _	Remarks	
0-5	104R5/2	<u> 95 1</u>	YRS/A				<u> </u>		
5-7	106R2/1	100					<u> </u>		
7-15	104R6/1	100					5		
' '	1								
									
	oncentration, D=De					ains.		L=Pore Lining, M=Matri:	
	Indicators: (Applic	cable to all L						r Problematic Hydric S	Soils":
Histoso	• •		Polyvalue Be					ck (A9) (LRR O)	1
	pipedon (A2)		Thin Dark Su Loamy Muck					ck (A10) (LRR S) Vertic (F18) (outside N	/II RA 150A.B)
	listic (A3) en Sulfide (A4)		Loamy Gleye			,		t Floodplain Soils (F19)	
_	ed Layers (A5)		Depleted Ma		-,			us Bright Loamy Soils (l l
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F6	5)			(153B)	
☐ 5 cm M	iucky Mineral (A7) (L	.RR P, T, U)	Depleted Da					ent Material (TF2)	
	resence (A8) (LRR		Redox Depre)			allow Dark Surface (TF1	2)
ı =	luck (A9) (LRR P, T)		☐ Marl (F10) (L☐ Depleted Oc		M D A 4	E4\	Uther (E	xplain in Remarks)	1
	ed Below Dark Surfa Park Surface (A12)	ce (ATT)	Iron-Mangar				E) ³ Indicat	ors of hydrophytic vege	tation and
1=	Prairie Redox (A16)	(MLRA 150A	= ~		, , ,		•	nd hydrology must be p	
	Mucky Mineral (S1)		🏻 🔲 Delta Ochric					s disturbed or problema	
. =	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI	-		-	-		
: -	ed Matrix (S6)	0 T II)		Bright Loan	ıy Soils (F20) (MLR/	A 149A, 153C, 1	153D)	
	urface (S7) (LRR P, Layer (if observed								
1 _	E Layer (II Observed	19-							
Type: _	inchor):						Hydric Soil P	Present? Yes	No
Remarks:	nches):						Tiyano don I		
Remarks.	able to	KOLK.	Cura Da	0 C7	16:	ام دام ما	C		
	able 10	14711	had be	√2□	i 🖰 (nune	3		
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WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region _____City/County: NASH Project/Site: _ _ Sampling Point: Wれなり007_ u Applicant/Owner: Dominion Investigator(s): ESIT K. Murphrey / J. Gry Section, Township, Range: NA/A Landform (hillslope, terrace, etc.): An Pie? Local relief (concave, convex, none): NONE Slope (%): Lat: 35, 82853 Long: -78,02690 Subregion (LRR or MLRA): ___ 1000 Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.) , Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? ACTIVE Agriculture field **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) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Sediment Deposits (B2) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) ☐ Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) ☐ Water-Stained Leaves (B9) Field Observations: No Depth (inches): No Depth (inches): 220° Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes _____ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

· · · · · · · · · · · · · · · · · · ·	A1 1 (B .1 . I II .	7
Tree Stratum (Plot size: 30 × 30)	Absolute Dominant Indicator	Dominance Test worksheet:
· ·	% Cover Species? Status	Number of Dominant Species
1NONE		That Are OBL, FACW, or FAC: (A)
		,
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
		(10)
6		Prevalence Index worksheet:
7		
8		Total % Cover of: Multiply by:
o		OBL species x 1 =
	= Total Cover	1
50% of total cover:	20% of total cover:	FACW species x 2 =
		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		· · · · · · · · · · · · · · · · · · ·
1. hone		FACU species x 4 =
		UPL species 100 x5= 500
2		1013
3		Column Totals: <u>(0)</u> (A) <u>500</u> (B)
		·
4	· —— —— ——	Prevalence Index = B/A =5
5		
		1.3 m o p n y m o o g o t m t o m m o o o o o
6	<u> </u>	- 🔲 1 - Rapid Test for Hydrophytic Vegetation
7		
8	·	-
	= Total Cover	Droblemetic Undreadudic Vegetation (Evaluity)
	20% of total cover:	Problematic Hydrophytic Vegetation¹ (Explain)
	20% of total cover:	-
Herb Stratum (Plot size: 3 o くろび)		Indiantary of hadring and and the stand hadragery and
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 Y UPL	¹ Indicators of hydric soil and wetland hydrology must
1. Arachis hypogaea	700 7 WPL	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
		- I som togetanon surran
3		
		TI I FOO — MACOUNT PLANTS OVERLING VINGS 3 ID 17 D CM) OF I
4		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
4. 5.		more in diameter at breast height (DBH), regardless of height.
5	-	more in diameter at breast height (DBH), regardless of height.
5 6		more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
5		more in diameter at breast height (DBH), regardless of height.
5		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.
5		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
5		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.
5		more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5		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
5		more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
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		ription: (Describe to	the depth				or confirm	the absence of indi	icators.)
	Depth	Matrix Color (moint)	%	Redox Color (moist)	Features %	Type ¹	Loc²	Texture	Remarks
	(inches)	Color (moist)		Color (Hoist)		_ iyoe	LOC		Remarks
	<u> </u>	104R6/3	100_	24/11				<u>.5cl</u>	
	5-Z1)	104K512	95 11	UGRS/4_	S		\sim	561	
				7					
									
	¹ Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL=Pe	ore Lining, M=Matrix.
	Hydric Soil I	ndicators: (Applica	ble to all LF	RRs, unless other	wise note	ed.)		Indicators for Pr	oblematic Hydric Soils ³ :
	☐ Histosol	(A1)		Polyvalue Bel	ow Surfac	ce (S8) (I	RR S, T, U) 🔲 1 cm Muck (A	(49) (LRR O)
	=	ipedon (A2)		Thin Dark Su				2 cm Muck (A	
	Black Hi			Loamy Mucky					tic (F18) (outside MLRA 150A,B)
		n Sulfide (A4)		Loamy Gleye			-,		odplain Soils (F19) (LRR P, S, T)
		Layers (A5)		Depleted Mat		. ,			right Loamy Soils (F20)
		Bodies (A6) (LRR P,	T, U)	Redox Dark S		6)		(MLRA 153	
		icky Mineral (A7) (LR		Depleted Dar				Red Parent N	
		esence (A8) (LRR U)		Redox Depre				☐ Very Shallow	Dark Surface (TF12)
	_	ick (A9) (LRR P, T)		☐ Marl (F10) (L		•		Other (Explai	in in Remarks)
		Below Dark Surface	(A11)	Depleted Och	-	(MLRA 1	51)	_ ` ` `	·
		ark Surface (A12)	` '	Iron-Mangane		-	-	T) ³ Indicators of	of hydrophytic vegetation and
		rairie Redox (A16) (M	LRA 150A)	_					ydrology must be present,
		lucky Mineral (S1) (L		Delta Ochric				unless dis	turbed or problematic.
and the second		Bleyed Matrix (S4)		Reduced Ver					·
41 14		Redox (S5)		Piedmont Flo				9A)	
		Matrix (S6)		Anomalous B	right Loai	my Soils	(F20) (MLR	A 149A, 153C, 153D)
	_	rface (S7) (LRR P, S,	T, U)		•	•			
	Restrictive	Layer (if observed):							
	Type:								. /
	Depth (in	ches).						Hydric Soil Prese	ent? Yes No
		Unico)						11,411.000	
	Remarks:								
	1								



Upland data point wnao007_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ACPApplicant/Owner: DOM inion Investigator(s): FSI K, MUPNIES J. Gay Section, Township, Range: NA Landform (hillslope, terrace, etc.): FIDT Local relief (concave, convex, none): F (A) Subregion (LRR or MLRA): LRRP Soil Map Unit Name: Rains Sonda (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Is the Sampled Area Hydric Soil Present? Yes within a Wetland? Wetland Hydrology Present? Yes Remarks: **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Aquatic Fauna (B13) Surface Water (A1) Marl Deposits (B15) (LRR U) Drainage Pattems (B10) High Water Table (A2) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Shállow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Free Stratum (Plot size: 30' X30')			1	The state of the s
ree Stratum (Plot size:)	% Cover		Indicator	Dominance Test worksheet:
1 1 Con 10 10 10 10 10 10 10 10 10 10		Species:		Number of Dominant Species
Little Colore	_ <u> </u>		FACY	That Are OBL, FACW, or FAC:(A)
Liquidambar Statacifla	20	Ч	FR	
Acer Rubrum	10	-и́	EW.	Total Number of Dominant Species Across All Strate: (B)
3. Meet totalett		-1		Species Across All Strata: O (B)
l				Descript of Demiserst Coopies CCC
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				mat Ale OBL, FACVV, OF FAC.
S				Prevalence Index worksheet:
7.				
			1	Total % Cover of: Multiply by:
В				OBL species x 1 =
		= Total Co		
50% of total cover: 2	(1) 20% of	total cove	er: 8	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: ろの)				FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)	_	Ŋ	EMA	FACU species x4 =
1. Quercus alba	<u> </u>	_/	FACY	
Liquidamboor Sterocifico	(O	y	FAC	UPL species x 5 =
	 3 -	_,} _	F4C	Column Totals: (A) (B)
3. Acer (abrum				
1. Clethro anisonio	[0	4	FACW	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
	30	= Total C	over ,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	5 200/ 6	- of total acu	,or: 6	T Toblematic Hydrophytic regetation (Explain)
50% of total cover:	20%	JI LULAI CU	/ei	
Herb Stratum (Plot size: 30×30)		ΔI		Indicators of hydric soil and wetland hydrology must
1. Arundinaria grigoritea	10	γ	FACW	be present, unless disturbed or problematic.
1. Triving the set spigstri				
2			_	Definitions of Four Vegetation Strata:
3				To a late du claste controlles visco (7 6 cm) o
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
4				
5				height.
				B-15-401-4- Mandy-lands evaluating vinon loss
6				 Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tail.
7				Tinan 3 in. Distratio diealei man 3.20 ii ti nu lai.
· · · · · · · · · · · · · · · · · ·				- Mario III Dari and Broater than a track of the
				
8				Herb – All herbaceous (non-woody) plants, regardles:
				
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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8		= Total	Cover Z	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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8. 9. 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 30' x 30') 1. SM (& Whad FULLO 2. VITIS Madifulio		= Total	Cover Z	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
8		= Total	Cover Z	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
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8. 9. 10. 11. 12. 50% of total cover:		= Total	Cover Z over: FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
8. 9. 10. 11. 12. 50% of total cover:	20% 20% 20% 30 5	= Total	Cover Z	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
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Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	the absence o	f indicators.)
Depth	Matrix			x Feature				P
(inches)	Color (moist)		Color (moist)	<u> </u>	Type ¹	Loc	Texture .	Remarks
0-20	104R S/2	<u> 90 (</u>	CyR6/4	<u>(U</u>		$\overline{}$	LFS.	
	·.•							
			-		-			
								
		- 						
				- 				
								
	·	- -						
¹ Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
l	Indicators: (Appli	cable to all L						for Problematic Hydric Soils ³ :
☐ Histoso			Polyvalue B					uck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)
=	listic (A3)		Loamy Muc			₹ 0)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley					ont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma					lous Bright Loamy Soils (F20)
= -	c Bodies (A6) (LRR		Redox Dark					AA 153B) Brent Material (TF2)
	lucky Mineral (A7) (L		Depleted Da					arent material (1F2) hallow Dark Surface (TF12)
=	Presence (A8) (LRR	•	☐ Redox Dep: ☐ Marl (F10) (, 0)			raliow Dark Surface (1F12) (Explain in Remarks)
_	luck (A9) (LRR P, T) ed Below Dark Surfa		Depleted O) (M) PA	(51)	Light (cyhan in venara)
_	ed Below Dark Suria Dark Surface (A12)	ice (Ai i)	Iron-Manga				T) ³ indic	ators of hydrophytic vegetation and
	Prairie Redox (A16)	(M) RA 1504	= 1			-	-	land hydrology must be present,
	Mucky Mineral (S1)		Delta Ochri					ess disturbed or problematic.
	Gleyed Matrix (S4)	(=,, 0, 0,	Reduced V					,
	Redox (S5)		Piedmont F	-				
	ed Matrix (S6)		_				RA 149A, 153C	, 153D)
	Surface (S7) (LRR P	, S, T, U)						
1 —	e Layer (if observe							
Type:_	-							
1	inches):						Hydric Soi	Present? Yes No
Remarks:					_			
Remarks.								
1								
1								
1								
1								



Wetland data point wnao006f_w facing south.

Project/Site: ACP	City/County: _No	ý	_ Sampling Date: 7/31/14
Applicant/Oumor: DC/M (A +C)()		State: N	_ Sampling Point: What 006 -4
CCT V MILAVELITI	567 a		
Soil Map Unit Name: NoR Fol K	Local relief (concave.	convex. none): Flat	Slope (%): 2-4
and form (missippe, terrace, etc.).	25.82623	1 ong: ~78, 62	879 Datum: W6584
Subregion (LRR of MLRA): 27 - Lat.	<u> </u>	NIM closes	fication: NA
Soil Map Unit Name: //ok+ol K		INVVI Classi	Remarks)
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology signi			" present? Yes No
Are Vegetation, Soil, or Hydrology natu	rally problematic? (If	needed, explain any ansv	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point	locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes No _	Is the Sampl	ed Area	
Hydric Soil Present? Yes No _		land? Yes	No
1 -	Intimit a rect	101 Te3	
Wetland Hydrology Present? Yes No_ Remarks: Upland data Point is	in an acti	ve agricultu	re field
		O	
			1
		•	
	<u> </u>	<u> </u>	
HYDROLOGY			
Wetland Hydrology Indicators:		_	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that		 =	Soil Cracks (B6)
	auna (B13)	— · ·	Vegetated Concave Surface (B8)
\ 	osits (B15) (LRR U)		e Pattems (B10) m Lines (B16)
	Sulfide Odor (C1) Rhizospheres along Living R		son Water Table (C2)
	of Reduced Iron (C4)		Burrows (C8)
 	on Reduction in Tilled Soils (— ·	on Visible on Aerial Imagery (C9)
	k Surface (C7)	Geomor	phic Position (D2)
	plain in Remarks)	Shallow	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)			eutral Test (D5)
☐ Water-Stained Leaves (B9)		☐ Sphagn	um moss (D8) (LRR T, U)
Field Observations:	∧/ A		
Surface Water Present? Yes No Dep	th (inches): N A		
Water Table Present? Yes No Dep	th (inches):		resent? Yes No
Saturation Present? Yes No Dep (includes capillary fringe)	oth (inches): 720°	Wetland Hydrology P	resent? resNo
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspe	ctions), if available:	
Remarks:			
		•	
		•	
			,
· ·			

EOETATION (Four Grada) Good Colorado	No. 1 (Day 1 and 1 and 1 and 1	T. D. Constant T. Constant Constant
ree Stratum (Plot size: 30 × 30)	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species
none		That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant
·		Species Across All Strata: (B)
•		
·		T efcent of Bothmant openies
•		That Are OBL, FACW, or FAC: (A/B)
·		
		Prevalence Index worksheet:
·		Total % Cover of: Multiply by:
	O = Total Cover	OBL species x 1 =
500 4 (1.45)		FACW species x 2 =
	20% of total cover:	FAC species x 3 =
apling/Shrub Stratum (Plot size: 30 x 30)	
		FACU species x 4 =
. None		UPL species 100 x 5 = 500
·		1002 (B)
,		Column Totals: (OV (A) 500 (B)
k		Prevalence Index = B/A =5
5		- Hydrophytic Vegetation Indicators:
		1 - 1 - 1
3		 1 - Rapid Test for Hydrophylic Vegetation
7		_ │
3		_
	= Total Cover	
		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	_ \
Herb Stratum (Plot size: 30/30)		1. It is the table all and anothered budgets one much
Herb Stratum (Flot size.	100 1/ 1/01	Indicators of hydric soil and wetland hydrology must
1. Glycine max	100 Y UPL	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
		-
3		 Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		
		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		, , , , , , , , ,
9.		of size, and woody plants less than 3.28 ft tall.
10		110003 1110 71111000, 11110
11		height.
12.		
12.	///	
	/00 = Total Cover	
50% of total cover	r: <u> </u>	<u> </u>
Woody Vine Stratum (Plot size: 30 ×30		
	_)	
1. none		<u> </u>
		\
2		-
3		<u> </u>
4		
5		
1	= Total Cover	Vegetation
500/ of total and		Present? Yes No
ì	er: 20% of total cover:	
Remarks: (If observed, list morphological adapta	tions below).	
data Point taken in	An xield	
I conta tour taken in	1 1900	·
	•	
\	•	
1		

	ription: (Describe t	o the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of in			wna000
epth	Matrix			x Features						
ches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u></u>	Remarks	
)-12	10YR5/2	90	10 YR 5/4	10		\triangle	4-Fire 5			
L-20'	10YR 5/4	100		<u> </u>	,		4 Fine 5			
_ /\0	10/1/4/1	100					<u> </u>			
										
				_						
								 -	*	
		. ——								
	oncentration, D=Dep					ains.	² Location: PL:			
dric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise not	ed.)		Indicators for	Problem	atic Hydric S	Soils³:
Histoso	l (A1)		Polyvalue B	elow Surfa	ice (S8) (I	LRR S, T, U	l) 📙 1 cm Mucl	(A9) (LF	RR O)	
Histic E	pipedon (A2)		Thin Dark S	urface (S9) (LRR S,	, T, U)	2 cm Mucl		•	
Black F	listic (A3)		Loamy Muc	ky Mineral	(F1) (LRI	₹ 0)	· —	-		/ILRA 150A,E
Hydrog	en Sulfide (A4)		Loamy Gley		(F2)			-		(LRR P, S, T
	ed La y ers (A5)		Depleted M					-	_oamy Soils (F20)
: -	c Bodies (A6) (LRR P		Redox Dari		•		C (MLRA			
	lucky Mineral (A7) (L						Red Pare			0)
i	resence (A8) (LRR U	J)	Redox Dep		.გ)				Surface (TF1	Z)
ī	luck (A9) (LRR P, T)	- 18445	Marl (F10)		A A A I D A :	454)	Uther (Ex	piain in R	emarks)	
	ed Below Dark Surfac	e (A11)	Depleted O			-	T\ 3 pairate	en of beed	rophytic vege	tetion and
	Dark Surface (A12) Brairia Baday (A16) (MI DA 4E4				(LRR O, P,			ropnytic vege igy must be p	
ž.	Prairie Redox (A16) (Mucky Mineral (S1) (· ===						d or problema	
	Gleyed Matrix (S4)	LICIT O, 3				, I 5 0A, 150B		, distaine	d or problems	200.
-	Redox (S5)	•				9) (MLRA 1			4	
-	ed Matrix (S6)						RA 14 9A, 153C, 1	53D)		
= ' '	Surface (S7) (LRR P,	S, T, U)		·	•	, .		•		
	e Layer (if observed									
Type:_	•	•								
	inches):						Hydric Soil P	resent?	Yes	No V
· · · · · · · · · · · · · · · · · · ·	menes).	-			_		Trydite don't	CSCIIC.		
emarks:										



Upland data point wnao006_u facing northwest.

Project/Site: ACP	City/County: NO	ish	_ Sampling Date: 7/31 //4
Applicant/Owner: DOMIAIUA		State: N C	_ Sampling Point: WNAO 005+
Investigator(s): ESI-K. MUYPhreh	T, Gay Section, Township	, Range: N/A	
Landform (hillslope, terrace, etc.): 75 v++ m	Local relief (conca		Cave Slope (%): 0-2
Subregion (LRR or MLRA): LRR	Lat: 35,42109	Long:-78,030	99 Datum: W6584
Soil Map Unit Name: Bibb 100M		NWI classi	fication: PFO
Are climatic / hydrologic conditions on the site typical for the	his time of year? Yes	No (If no, explain in	Remarks)
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances	. /
		(If needed, explain any ans)	
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS - Attach site map	showing sampling poi	nt locations, transec	ts, important features, etc.
Hydric Soil Present? Yes	No is the Sam No within a W	•	No
HYDROLOGY			
Wetland Hydrology Indicators:	······································	Secondary Inc	licators (minimum of two required)
Primary Indicators (minimum of one is required: check a	all that apply)		oil Cracks (B6)
	tic Fauna (B13)		Vegetated Concave Surface (B8)
\ 	Deposits (B15) (LRR U)		Pattems (B10)
	ogen Sulfide Odor (C1) zed Rhizospheres along Living		n Lines (B16) on Water Table (C2)
! 📻 💮 ' ' 📻	ence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Burrows (C8)
 - 	nt Iron Reduction in Tilled Soils		n Visible on Aerial Imagery (C9)
	Muck Surface (C7)		hic Position (D2)
	r (Explain in Remarks)		Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		_	tral Test (D5) m moss (D8) (LRR T, U)
		Spriagrid	in moss (Do) (Errit 1; 0)
Surface Water Present? Yes No	Depth (inches): NA		
Water Table Present? Yes No	Depth (inches): 15"		
Saturation Present? Yes Vo No	Depth (inches): 15" Depth (inches): 10"	Wetland Hydrology Pre	esent? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we			
Describe Necorded Data (Stream gauge, monitoring we	sii, aenai priotos, previodo irispe	ctions), ii available.	
Remarks:			
			•
·			
			18 + 9 · · ·

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

2.1142.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' X30')	% Cover	Species?	Status	Number of Dominant Species
1. ACEr rubrum	15	<u> </u>	FAC_	That Are OBL, FACW, or FAC: (A)
2. I Lex u Paca	5	Ń	FA	
3. Liriodena an tulipisero	10	7	FAC4	Total Number of Dominant Species Across All Strata: (B)
4. Liquidambar Styraci Elua		- N	FAC	Species Across All Strata: (B)
4. LIGUIAMON SINTOCIECUA		7		Percent of Dominant Species
5. QUEYCUS nigral		<u>~</u>	FAC	That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	40	= Total Cov		OBL species x 1 =
··· · · · · · · · · · · · · · · · ·	1	- Total Cov	ei d	FACW species x 2 =
	20% of	f total cover	: <u>O</u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 × 30)		v 1	-10	i i
1. Ilex oraca	<u> </u>	<u> </u>	FR	FACU species x 4 =
2 Ligustryn sinense	· 🥎	Υ	PAC	UPL species x 5 =
3. Clethra alni Fulia		4	FACW	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
0	76	= Total Co		1
	\ <u></u>	= Total Co	vei 🏏	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	<u>/ 20% o</u>	t total cover	r	
Herb Stratum (Plot size: <u>30 × 30</u>)	_	.,	~ . C	¹Indicators of hydric soil and wetland hydrology must
1. Adhyrium asplenbiles		<u> </u>	FAC	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
1				-
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				
	5	_ = Total Co	wer	·
50% of total cover: 2	5 200/	of total cove		
	20%	Ji lulai cove	#. <u> </u>	-
Woody Vine Stratum (Plot size: 30 X 30)	_	V	E.C	
1. Smilax rotundisolla	_ <u> </u>		<u>FAC</u>	_
2				_
3				
4				-
4		-		-
5				- Hydrophytic
		_ = Total C	over /	Vegetation
50% of total cover:	·5 20%	of total cove	er: (Present? Yes No
Remarks: (If observed, list morphological adaptations be				
Remarks. (II observed, list morphological adaptations be	siovy).			

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Profile Desc	ription: (Describe	to the dept	n needed to docur	nent the i	ndicator	or confirm	the absence of in	dicators.)
Depth	Matrix			x Feature		1 2	T	Damada
(inches) ()-20	Color (moist)	- 0 %-	Color (moist) UGR5/4	<u> </u>	Type'	Loc²	Texture	Remarks
<u> </u>	109K1/2	[]!	0917 3/9			 .	<u> 201 </u>	
	·							
		- -						
		,				· ———		
1=						·	2	
	oncentration, D=De					ains.		Pore Lining, M=Matrix.
	Indicators: (Appli	cable to all i			-		_	Problematic Hydric Soils ³ :
Histoso			Polyvalue Be					(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
=	istic (A3)		Loamy Muck			R ()		'ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(F2)			Floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	: Bodies (A6) (LRR I	D T 11\	Redox Dark		-e)		(MLRA 1	
	ucky Mineral (A7) (L		=		•			t Material (TF2)
	resence (A8) (LRR		Redox Depre					ow Dark Surface (TF12)
	uck (A9) (LRR P, T)		☐ Marl (F10) (I		-,			lain in Remarks)
	d Below Dark Surfa		Depleted Oc		(MLRA 1	I 51)		,
=	ark Surface (A12)	, ,	Iron-Mangar		•	•	T) ³ Indicator	s of hydrophytic vegetation and
Coast F	rairie Redox (A16)	(MLRA 150A	() 🔲 Umbric Surf	ace (F13)	(LRR P,	T, U)		hydrology must be present,
□ Sandy I	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (M	LRA 151)	•	uniess (disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve	rtic (F18)	(MLRA 1	50A, 150B)		
	Redox (S5)		Piedmont FI					
	d Matrix (S6)		Anomalous	Bright Loa	my Soils	(F20) (MLR.	A 149A, 153C, 15	3D)
	urface (S7) (LRR P,						,	
Restrictive	Layer (if observed	I):						
Type:		 ,						
Depth (i	nches):						Hydric Soil Pre	esent? Yes No
Remarks:								
•								
1								
			-					
1								•



Wetland data point wnao005f_w facing south.

Project/Site: ACP	City/County: NOSh Sampling Date: 7/30/14 State: NC Sampling Point: Wno0005_
Applicant/Owner: WOMEN CO	State: NC Sampling Point: WNA0005_
Investigator(s): ESI- K. MurPhrey/J. Cay	Section, Township, Range: 100
Landform (hillslope, terrace, etc.): FIA+	Local relief (concave, convex, none): None Slope (%): 2-4 2120 Long: 78,03093 Datum: W6584
Subregion (LRR or MLRA): LRRP Lat: 35, 8	2120 Long: -78,03093 Datum: W6584
Soil Map Unit Name: Bibb (Oom	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrologysignificantly	•
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No No No No No No No No No No No No No	Is the Sampled Area within a Wetland? Active agriculture fixed
Remarks: upland data point to av	active agriculture field
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) Harl Deposits (B*	
Saturation (A3) Hydrogen Sulfide Oviding Rhizon	Odor (C1) Moss Trim Lines (B16) Cheres along Living Roots (C3) Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizosp Presence of Redu	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inches	NX
Surface Water Present? Yes No Depth (inche Water Table Present? Yes No Depth (inche	72°
Saturation Present? Yes No Depth (inches	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks:	

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

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 x 30	% Cover Species? Status	Number of Dominant Species
1. none		That Are OBL, FACW, or FAC: (A)
2.		
		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
<u> </u>	= Total Cover	OBL species x 1 =
		FACW species x 2 =
	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30 x 30)		FACU species x4 =
1. None	·	
2		UPL species 100 x 5 = 500
3		Column Totals: 100 (A) 500 (B)
		il
4		· ———
5		1 - · · ·
6	. — — — — — — — — — — — — — — — — — — —	- 📗 1 - Rapid Test for Hydrophytic Vegetation
7		- 2 - Dominance Test is >50%
8		- ☐ 3 - Prevalence Index is ≤3.0 ¹
	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	Froblematic rigdiophytic vegetation (Expiant)
Herb Stratum (Plot size: 30 x 30)	20 /0 01 total cover:	
Herb Stratum (Plot size: 202)	100 Y UPL	Indicators of hydric soil and wetland hydrology must
1. Glycine max	1.017 7 00 =	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4		more in diameter at breast height (DBH), regardless of
5		height.
6		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7		- than 3 iii. Dbi and greater than 3.20 it (1 iii) taii.
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.		_
12.	100 = Total Cover	- \
50	1 = Total Cover	
50% of total cover:	20% of total cover: [0	– Į
Woody Vine Stratum (Plot size: 30 × 30)		
1. None		_
2		
3		_
4		-
4		- .
5		- Hydrophytic
	= Total Cover	Vegetation Present? Yes No
50% of total cover:	20% of total cover:	_ Present?
Remarks: (If observed, list morphological adaptations be	elow).	
	•	
data point taken in	, Ag ARC	
)	·

Profile Desc	ription: (Describe	to the depti	n needed to docur	nent the in	dicator o	r confirm 1	the absence of inc	licators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks	<u> </u>
0-20	104R5/2	100					LS		İ
	-								
				 .					
					 -				
		_							
								•	
									
	oncentration, D=De					ins.		Pore Lining, M=Ma	
Hydric Soil	Indicators: (Appli	cable to all l	RRs, unless othe	rwise note	d.)		Indicators for P	roblematic Hydri	c Soils":
. ☐ Histosol	(A1)		Polyvalue Be) 🖳 1 cm Muck	(A9) (LRR O)	
∏ Histic E	pipedon (A2)		Thin Dark St	urface (S9)	(LRR S, 1	Γ , U)	2 cm Muck	(A10) (LRR S)	
Black H	istic (A3)		Loamy Muck	y Mineral (F1) (LRR	O)	Reduced Ve	ertic (F18) (outsid	e MLRA 150A,B)
☐ Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix (F	2)		Piedmont F	loodplain Soils (F1	9) (LRR P, S, T)
_	d Layers (A5)		Depleted Ma	itrix (F3)				Bright Loamy Soil	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	6)		(MLRA 15		
	ucky Mineral (A7) (L		Depleted Da		•			Material (TF2)	ļ
	resence (A8) (LRR		Redox Depr					w Dark Surface (T	F12)
	uck (A9) (LRR P, T)	-	Marl (F10) (I					ain in Remarks)	
	d Below Dark Surfa		Depleted Oc		MLRA 15	i1)		•	
_	ark Surface (A12)		Iron-Mangar	nese Masse	s (F12) (L	RR O, P,	T) ³ Indicators	of hydrophytic ve	getation and
Coast P	rairie Redox (A16)	(MLRA 150A	N) 🔲 Umbric Surf	ace (F13) (I	LRR P, T,	U)		hydrology must be	
Sandy I	Mucky Mineral (S1)	(LRR O, S)	Delta Ochrid				unless d	isturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) (1	MLRA 15	0A, 150B)		,	
	Redox (S5)		Piedmont Fi				9A)		
	d Matrix (S6)						A 149A, 153C, 153	D)	
. =	ırface (S7) (LRR P,	S, T, U)	_	_		. ,		•	
	Layer (if observed		• •						* /
Type:	•	•							./
			·				Hydric Soil Pres	12 V	No
	nches):						Hydric Son Pres	sent? Yes	
Remarks:									
An S	field								
1 /9 "									
l									
Ì									
ļ									
İ									
1				•					
1									
				•					
1									
1	•								



Upland data point wnao005_u facing northwest.

Project/Site: ACP	_ City/County: NaSh Sampling Date: 7/30/14
Applicant/Owner: Duminion	State: NC Sampling Point: Whao 004f.
EST - 1/ AN ODINGED TO	· - · · - · · · · · · · · · · · · ·
Lat: 3 Soil Map Unit Name: Bibb LOAM	Local relief (concave, convex, none): $(0 \land (0 \lor))$ Slope (%): $0-2$ $3 \cdot 6 \cdot 96 \cdot 1$ Long: $-78 \cdot 03220$ Datum: W6584
Are climatic / hydrologic conditions on the site typical for this time o	
Are Vegetation, Soil, or Hydrology significal	
Are Vegetation, Soil, or Hydrology naturally	•
	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No No No No No No No No No No No No No	within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Saturation (A3) Hydrogen Sulfi	(B13) Sparsely Vegetated Concave Surface (B8) (B15) (LRR U) Drainage Pattems (B10)
Sediment Deposits (B2)	educed Iron (C4) eduction in Tilled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	ches): 7/8 wetland Hydrology Present? Yes No
Describe Necolded Data (stream gadge, monitoring well, denoted	protos, protosa inopositorio), il asaliasio.
Remarks:	
1	
	· ·

	Abaalida	Dominant	Indiantas	Daminanas Tast wasksheets
Tree Stratum (Plot size: 30' × 30')		Species?		Dominance Test worksheet:
O. O. Land and Company	20	V	FACIN	Number of Dominant Species
1. Betula nigra		7		That Are OBL, FACW, or FAC: (A)
2. Acer rubrum	20	<u> </u>	FAC	Total Number of Demissort
3		•		Total Number of Dominant Species Across All Strata: (B)
				Species Across Air Strata (D)
4				Percent of Dominant Species 160
5				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
8				· ·
	40	= Total Co	ver	OBL species x1 =
50% of total cover: 20	20%	f total cove		FACW species x 2 =
50% of total cover.	20%0	i (Otal Cove	»·_ <u></u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 × 15)		10		
1. Nussa Sulvatica	5	<u> 47, </u>	FAC	FACU species x 4 =
2. Fraxinus Punsylvamica	10	Ą	FACW	UPL species x 5 =
Tier apacon	· - ^	7/	FAC	Column Totals: (A) (B)
3. TIEX OPOCO	· -	. <u> </u>	- 	()
4. Clethra alnisolia	<u></u>	<u> </u>	PACW	Prevalence Index = B/A =
5			· ——	
				Hydrophytic Vegetation Indicators:
6		-		Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8.				i 🗖
0	11			3 - Prevalence Index is ≤3.0¹
_			_ 4	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: _ 역.,	<u>5</u> 20% d	of total cove	er: <u>ン/)</u>	
Herb Stratum (Plot size: 5 × 5)				11- 11- 12- 12- 12- 12- 12- 12- 12- 12-
1. Adiantum Capillus - Veneris	J.	N)	FACU	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. ACTANTUM Capillos Volto			<u> </u>	
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
l				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than one portain grouter than one in (1) by tam
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10		-	-	Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		_ = Total C	'over	
1				
50% of total cover:	20%	of total cov	/er: <u>@ , 1</u>	-
Woody Vine Stratum (Plot size: 30 × 30)				
1 None				
				-
2				-
3				_
1 .				
4				-
5				- Hydrophytic
		= Total (Cover	Vegetation
50% of total cover:				Present? Yes No
		or rotal co.	• • • • • • • • • • • • • • • • • • • •	-
Remarks: (If observed, list morphological adaptations be	elow).			

Depth	cription: (Describe to t Matrix		Redox Features			•
(inches)	Color (moist)	% Color (mois) <u>%</u> <u>T</u> \	/pe¹Loc²	Texture	Remarks
0-3	104R6/3/	/1/1			_SL	
3-18	104R6/2/				3L	
Hydric Soil Histosol Histic E Black H Hydroge Stratifie Organic 5 cm Mi Muck P 1 cm M Deplete Thick D Coast F Sandy I Sandy I Stripped	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) el Bodies (A6) (LRR P, T, ucky Mineral (A7) (LRR resence (A8) (LRR U) uck (A9) (LRR P, T) d Below Dark Surface (A ark Surface (A12) Prairie Redox (A16) (MLI Mucky Mineral (S1) (LRI Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	le to all LRRs, unless Polyval Thin Da Loamy Loamy Loamy P, T, U) P, T, U) P, T, U) Poeplete Redox Redox Marl (F A11) Deplete Iron-Ma RA 150A) Reduct Piedma Anoma	otherwise noted.) De Below Surface (Fr. Surface (S9) (LF. Mucky Mineral (F1)) Gleyed Matrix (F2) Dark Surface (F6) Dark Surface (F7) Depressions (F8) O (LRR U) Ded Ochric (F11) (ML Denric (F17) (MLRA Denric (F17) (MLRA Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML Denric (F18) (ML	S8) (LRR S, T, U) (LRR O) .RA 151) F12) (LRR O, P, R P, T, U) .151) RA 150A, 150B) (F19) (MLRA 14	1 cm Muck (A9) 2 cm Muck (A10 Reduced Vertic Piedmont Flood Anomalous Brigl (MLRA 153B) Red Parent Mate Very Shallow Da Other (Explain in wetland hydr unless distur	ematic Hydric Soils ³ : (LRR O)) (LRR S) (F18) (outside MLRA 150A plain Soils (F19) (LRR P, S, ht Loamy Soils (F20) erial (TF2) ark Surface (TF12)
Restrictive Type:	urface (S7) (LRR P, S, 1 Layer (if observed):				Hydric Soil Present	? Yes No
Remarks:						



Wetland data point wnao004f_w facing south.

Project/Site: ACP	City/Cc	ounty: NaSh	Sampling I	Date: 7/30/14
Applicant/Owner: Dominion	<u> </u>		State: 1/ C Sampling F	Point Whao 004-4
Investigator(s): EST-K, MUTPI	NPGIT /THE SOCTION	Township Bases:	AIA	
investigator(s): 12) + (1 × 1) × 1	Of Section	i, rownship, Range.	CONEX	2-4
Landform (hillslope, terrace, etc.): \\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Local L	eliet (concave, convex, i	none): <u>こい 1VCス</u>	_ Slope (%):
	Lat: <u>5) . D (7</u>	Long:	10,05011	Datum: NGSBY
Soil Map Unit Name: $_$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$	<u>sam</u>		NWi classification:	ואא
Are climatic / hydrologic conditions on the site	typical for this time of year? Ye	es No ((If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydro	logy significantly disturt	ed? Are "Normal	Circumstances" present? Y	es No
Are Vegetation, Soil, or Hydro			explain any answers in Rema	rks.)
SUMMARY OF FINDINGS - Attach	ı site map showing sam	pling point locatio	ons, transects, importa	ant features, etc.
Hydrophytic Vegetation Present? Ye	es No No No	Is the Sampled Area		
Hydric Soil Present? Ye	s No	within a Wetland?	Yes No_	
Wetland Hydrology Present? Ye	es No			
HYDROLOGY				(1)
Wetland Hydrology Indicators:			Secondary Indicators (minin	
Primary Indicators (minimum of one is requi			Surface Soil Cracks (B6	· ·
Surface Water (A1)	Aquatic Fauna (B13)	5.10	Sparsely Vegetated Co	
High Water Table (A2) Saturation (A3)	Marl Deposits (B15) (LRF Hydrogen Sulfide Odor (C		Drainage Patterns (B10 Moss Trim Lines (B16)	"
Water Marks (B1)	Oxidized Rhizospheres a	-	Dry-Season Water Tab	le (C2)
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)	
Drift Deposits (B3)	Recent Iron Reduction in		Saturation Visible on A	erial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (I	D2)
Iron Deposits (B5)	U Other (Explain in Remark	(S)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (E	(7)		FAC-Neutral Test (D5)	i
Water-Stained Leaves (B9)			Sphagnum moss (D8)	(LRR I, U)
Field Observations:	No Depth (inches): _N	Δ		
Surface Water Present? Yes	No Depth (inches): _/V	20		
Water Table Present? Yes Saturation Present? Yes	No Depth (inches): 7	Wetland	Hydrology Present? Yes	No
(includes capillary fringe)	<u> </u>			
Describe Recorded Data (stream gauge, n	ionitoring well, aerial photos, pre	evious inspections), if av	/ailable:	
Remarks:	· · · · · · · · · · · · · · · · · · ·		 	
			•	
			•	
				1
	,			

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

2.41/2.41	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' X30')		Species?	Status_	Number of Dominant Species
1. Acer Yubram	<u> 15 </u>	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)
2. Pinus taeda	<u> </u>	Ŋ	FA	,
3. Ilex opaca	15	Ý	FAC	Total Number of Dominant
	10	1/	FACW	Species Across All Strata: (B)
4. Betula nigra	- 15-	7		Percent of Dominant Species / 00
5. Liviodendron tailPiseva		<u>_v</u>	FAC 4	That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	50	= Total Co	Ver	OBL species x1 =
50% of total cover: 2.5				FACW species x 2 =
	20% 0	i totai cove	·. <u>- / (/</u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)	(0)	4.1	FAC	FACU species x 4 =
1. Querus nigra		- 17	. <u> </u>	UPL species x 5 =
2. Clethra ain: 80110	15	. <u> </u>	FACW	
3. Liquidormbar Styracistus	<u>خ خ</u>	<u>N_</u>	FAC	Column Totals: (A) (B)
,				Provolence Index - B/A -
				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
	<u> 30</u>	= Total Co	over,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 15	20% c	f total cove	er: 🔑	
Herb Stratum (Plot size: 5 x 5)				It attaches of budgle call and wallend budgelogy must
1. Phytolacca annerican	2	Ν	FACY	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
l •				
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
Į.				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				
	<u>- </u>	_ = Total C	over .	
50% of total cover:	200/	of total cov	n u	
30% of total cover	20%	oi totai cov	ei. <u>- !</u>	•
Woody Vine Stratum (Plot size: 30 × 30)	_	✓	EM	
1. Smilax YOtund: 801 is	>_		_ 177	-
2				- (
3				_
4.				
5				-
	<u> </u>	- Tatal C		- Hydrophytic Vegetation
	<u>ب</u>	_ = Total C	- 1	Present? Yes No
50% of total cover:		of total cov	/er:	-
Remarks: (If observed, list morphological adaptations be	elow).			
				•

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Features	To	12	Tour	Da	•
(inches)	Color (moist) (04R4/3	150	Color (moist)	%	Type	_Loc ²	Texture _	Remarks	
- 	1098,473		0211						
19-20	10455/2	95 1	04R5/1	. <u>_5</u> _	1)	-	<u>r+2</u> -		
	·		· ·		-				
-	- 1811								
	· · · · · · · · · · · · · · · · · · ·							<u> </u>	
¹ Type: C=C	oncentration, D=Dep	letion. RM=R	educed Matrix. M	S=Masked	Sand Gr	ains.	² Location: PL	=Pore Lining, M=Mate	rix.
	Indicators: (Applic							r Problematic Hydric	
☐ Histoso	I (A1)		Polyvalue Be	elow Surfa	ce (S8) (L	_RR S, T, U	U) 🔲 1 cm Muc	k (A9) (LRR O)	ļ
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
	listic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced	Vertic (F18) (outside	MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)			Floodplain Soils (F19	
	d Layers (A5)		Depleted Ma					us Bright Loamy Soils	(F20)
_	Bodies (A6) (LRR P		Redox Dark	•	•		(MLRA		1
	ucky Mineral (A7) (LF resence (A8) (LRR U		Depleted Da					ent Material (TF2) Illow Dark Surface (TF	12\
	uck (A9) (LRR P, T)	')	Marl (F10) (I	•	0)			rplain in Remarks)	12)
_	ed Below Dark Surfac	e (A11)	Depleted Oc	-	(MLRA 1	151)	, <u> </u>	cpiairi ir remarks)	
	Park Surface (A12)	· ()	Iron-Mangar				, T) ³ Indicate	ors of hydrophytic veg	etation and
	Prairie Redox (A16) (I	VLRA 150A)					•	nd hydrology must be	
	Mucky Mineral (S1) (I		Delta Ochric	(F17) (MI	LRA 151)		unless	s disturbed or problem	atic.
☐ Sandy	Gleyed Matrix (S4)		Reduced Ve						
_	Redox (S5)		Piedmont FI	-					
· ·	d Matrix (S6)			Bright Loa	my Soils	(F20) (MLI	RA 149A, 153C, 1	53D)	
	urface (S7) (LRR P, S								·····
	Layer (if observed)	:							/
Type:							1		1
. `	nches):						Hydric Soil P	resent? Yes	No
Remarks:									
1									
					•				
1									



Upland data point wnao004_u facing southwest.

Project/Site: ACP	City/County: NOSI	^	Sampling Date:	7/30/14
Applicant/Owner: DOM (N. 20		State: ' • -	Sampling Point:	una o 003f-1
Investigator(s): EST - K, MUVPhren 13.6mg	Section Township Ran	ige: NA		
Least and (billions towns ato); Battan land	Local relief (concave, or	onvex none): (On (ave some	· (%)· W-8
Landform (hillslope, terrace, etc.): Bottom land Subregion (LRR or MLRA): LRRP Lat: 35,	\$13/29		723 set	W/1584
Subregion (LRR or MLRA): LRC Lat: 557	<u> </u>	.ong:	- 0EO	UIII. <u>19000</u>
Soil Map Unit Name: Karus Sordy 10am		NWI class		
Are climatic / hydrologic conditions on the site typical for this time of you				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "	Normal Circumstance	s" present? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If ne	eded, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point l	ocations, transe	cts, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes No				
Hydrophytic Vegetation Present? Yes NoNoNoNoNoNo	Is the Sampled			ļ
Wetland Hydrology Present? Yes No	within a Wetlar	nd? Yes_	No	-
Remarks:				
				1
				ŀ
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Ir	dicators (minimum of	f two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface	Soil Cracks (B6)	ļ
Surface Water (A1) Aquatic Fauna (B		☐ Sparsely	Vegetated Concave	Surface (B8)
High Water Table (A2) Marl Deposits (B	•		e Pattems (B10)	
Saturation (A3) Hydrogen Sulfide		Moss Tr	im Lines (B16)	
	heres along Living Root	is (C3) 🔲 Dry-Sea	son Water Table (C2)
Sediment Deposits (B2) Presence of Red	uced Iron (C4)	☐ Crayfish	Burrows (C8)	1
	uction in Tilled Soils (C6)) 🔲 Saturati	on Visible on Aerial Ir	magery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	ce (C7)	☑ Geomoi	phic Position (D2)	
Iron Deposits (B5) Uher (Explain in	Remarks)		Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		_	eutral Test (D5)	
☐ Water-Stained Leaves (B9)		<u></u> Sphagn	um moss (D8) (LRR	T, U)
Field Observations:	NA			ļ
Surface Water Present? Yes No Depth (inch	es): 111			
Water Table Present? Yes No Depth (inch Saturation Present? Yes No Depth (inch	es):		<i>\</i>	·
(includes capillary fringe)		Vetland Hydrology P	resent? Yes	No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspectio	ns), if available:		
Remarks:				
remains.				
	•			
1				
	-			
	:		<u> </u>	

EGETATION (Four Strata) - Ose scientific ha	arries or plants.	Sampling Point.
Tree Stratum (Plot size: 30'X30')	Absolute Dominant Indi	
Tree Stratum (Plot size: 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10	% Cover Species? St	Number of Dominant Species
1. TILLIOGENGUN FOUTPIECKEN	- 15 Y F/	That Are OBL, FACW, or FAC: (A)
2. A Cer rubrum	10 Y F	Total Number of Dominant
3.		Species Across All Strata: (B)
4		7,6
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
8	- 	OBL species x1 =
	= Total Cover	· · · · · · · · · · · · · · · · · · ·
50% of total cover:	ے 20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: (5 × 1 5)	J	FAC species x 3 =
1. Liviodendon talipifer	<u> </u>	Ac u FACU species x4 =
2. Liaustiam Sinease	<u> </u>	AC UPL species x5 =
		Column Totals: (A) (B)
3		
4		
5		Hydrophytic Vegetation Indicators:
6		Rapid Test for Hydrophytic Vegetation
7		
8		3 - Prevalence Index is ≤3.01
	Total Cover	
50% of total cover:		Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5' × 5")	20 /0 OI total cover	
Herb Stratum (Plot size:	40 V F	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Athyrium aspleniodes		
2 Woodwardia virginica		
3. Microstegiam vimineum	<u> </u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Impatiens capensis	<u> 20 y</u> F.	more in diameter at breast height (DBH), regardless of
5		height.
6.		Sapling/Shrub - Woody plants, excluding vines, less
7		then 0 in DDII and prostor than 2.29 ft (5 m) tall
		
8		5 to the standard to the 2 20 4 to 1
9		
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12		
	<u> </u>	
50% of total cover: <u>3</u>	7.5 20% of total cover:	15
Woody Vine Stratum (Plot size: 30 ×30')		
1. Smilax ruxundisuis	5 4 1	FAC
1. <u>3/11/00/2 10/10/2 30/10/</u>		
2		
3		
4,		
5		Hydrophytic
	= Total Cove	Vegetation Vegetation
50% of total cover:	2.5 20% of total cover:	Procest2 Voc No
Remarks: (If observed, list morphological adaptations	DCIOW).	
1		

Profile Desc	ription: (Describe t	o the dep	th needed to docum	ent the i	ndicator o	r confirm	the absence of	indicators	5.)	
Depth	Matrix			Feature		. 3				
(inches)	Color (moist)	1,((1)	Color (moist)	%	_Type¹	_Loc ² _	Texture		Remarks	
0-2	104R4/2	100	-0:0=//				_5			
<u>3-6</u>	(64R5/2	<u>93</u>	104R5/6			<u>//) </u>	<u>SL</u> .			
			106RS/4	2_		PL	<u>SL</u>			
										1
6-20	104R 5/2	75	10685/6			M				
*************************************	100/1/3/2		105RS/1	30		\overline{M}				
			1031	<u> </u>						
										
			=Reduced Matrix, MS			ains.			ning, M=Matrix. natic Hydric So	.,,3,
Histosol Histic E Black H Hydroge Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy Sandy Sandy	• • •	, T, U) RR P, T, U) e (A11) MLRA 15	Redox Depre	low Surfa rface (SS y Mineral d Matrix trix (F3) Surface (rk Surface essions (I .RR U) hric (F11 ese Mas ace (F13) (F17) (N rtic (F18)	ace (S8) (L i) (LRR S, (F1) (LRR (F2) F6) e (F7) F8)) (MLRA 1 ses (F12) ((LRR P, 1 JLRA 151) (MLRA 1: Soils (F19)	T, U) 51) (LRR O, P, T, U) 50A, 150B) (MLRA 1	J) 1 cm Mt 2 cm Mt 2 cm Mt Reduce Piedmon (MLR. Red Pa Very Sh Other (I. T) 31ndica wetle unter (I. T)	uck (A9) (Lifuck (A10) (I) d Vertic (F1 on the Fight I) d 153B) rent Materiallow Dark Explain in Return of hydrotoss disturbe	RR O) LRR S) 18) (outside MI in Soils (F19) (I Loamy Soils (Fi al (TF2) Surface (TF12	LRA 150A,B) LRR P, S, T) 20) Ition and issent,
Restrictive	urface (S7) (LRR P, Example Layer (if observed)	:		_			Undria Cail	D42	v., V	No.
Depth (i Remarks:	nches):						Hydric Soil	Present?	Yes	No



Wetland data point wnao003f_w facing northwest.

Project/Site: ACP	City/County:	Nash	-	Sampling Date:	7/30/14 wnao003_u
Applicant/Owner: DOM Iniun		St	ate: NC	Sampling Point	wna0003_u
Investigator(s): ESI-K.MUYPh(49	Section To	vnship, Range:	N A	Oamping Ford	
Investigator(s): EST-K.MUYPh(49) Landform (hillslope, terrace, etc.): Side slope Subregion (LRR or MLRA): LRR P L Soil Map Unit Name: Norfolk (DAMY)	Local relief	concave convey p	and CONVE	2 × sia	no (%): 2-4
Calculation (Insistope, terrace, etc.):		concave, convex, no	78 0371	<u>र</u> ्र	Ne (%). 1(+58
Subregion (LRR or MLRA):	SØ01	Long:/	,0,0071	<u> </u>	atum: NOSS
• •					
Are climatic / hydrologic conditions on the site typical for this			f no, explain in F	· ·	/
Are Vegetation, Soil, or Hydrologys	-	Are "Normal (Circumstances"	oresent? Yes_	No
Are Vegetation, Soil, or Hydrologyn	aturally problematic?	(if needed, ex	oplain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing samplin	g point location	ns, transect:	s, important	features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes N	o Is th	e Sampled Area		س	
Hydric Soil Present? Yes ✓ N Wetland Hydrology Present? Yes N	with	in a Wetland?	Yes	No	_ \
Remarks:	<u> </u>				
Trainer.					
					ì
					j
LIVEROLOGY					
HYDROLOGY	<u>.</u>				Clarity of the state of the sta
Wetland Hydrology Indicators:			, <u>-</u> -		of two required)
Primary Indicators (minimum of one is required: check all			F	il Cracks (B6)	Curfosa (DD)
	: Fauna (B13) eposits (B15) (LRR U)			egetated Conca	ve Suriace (Do)
	en Sulfide Odor (C1)			'attems (B10) Lines (B16)	
Prest	ed Rhizospheres along	Livina Roots (C3)	 i	n Water Table (0	C2)
	ice of Reduced Iron (C		$\overline{}$	urrows (C8)	,
	iron Reduction in Tille	d Soils (C6)	Saturation	Visible on Aeria	l Imagery (C9)
Algal Mat or Crust (B4)	uck Surface (C7)		Geomorph	ic Position (D2)	
☐ Iron Deposits (B5) ☐ Other	(Explain in Remarks)		_	quitard (D3)	
Inundation Visible on Aerial Imagery (B7)			 	ral Test (D5)	
☐ Water-Stained Leaves (B9)			Sphagnur	n moss (D8) (LR	R T, U)
Field Observations:	NA				
	epth (inches): $\sqrt{\Lambda}$				
Water Table Present? Yes No	epth (inches): 720) New	III		,, l
Saturation Present? Yes No D (includes capillary fringe)	epth (inches):	vvetiand	Hydrology Pre	sent? Yes	No
Describe Recorded Data (stream gauge, monitoring wel	l, aerial photos, previo	us inspections), if av	ailable:		
Remarks:					

GETATION (Four Strata) - Ose scientific r		Camping Cont.
ree Stratum (Plot size: 30' X 30')	Absolute Dominant Indicat % Cover Species? Statu	•
ee Stratum (Plot size: 3-75-1)	IO Y FAC	Number of Dominant Species 5
Liciodendran tulipirera		That Are OBL, FACW, or FAC:(A)
Acer rubium	10 4 FAC	Total Number of Dominant
		Total Number of Dominant Species Across All Strata: (B)
·		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/B)
		Prevalence Index worksheet:
·		Total % Cover of: Multiply by:
	= Total Cover	OBL species x1 =
50% of total cover:		FACW species x 2 =
apling/Shrub Stratum (Plot size: (SX15)	•	FAC species x 3 =
. Liliodendoun tulipifera	S Y FAC	. ц FACU species x4 =
	'	UPL species x 5 =
•		Column Totals: (A) (B)
		
·		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
3		Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
В		\ ☐ 3 - Prevalence Index is ≤3.0¹
·	5 = Total Cover	1 =
500/ official course	2.5 20% of total cover:	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of total cover:	
Herb Stratum (Plot size:	5 N FA	Indicators of hydric soil and wetland hydrology must
1. Phytolacca americana	 	be present, unless disturbed or problematic.
2. Microstegium vimineum	<u>20</u> 4 F	Definitions of Four Vegetation Strata:
3. Boehmeria cylindrice		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
· · · · · · · · · · · · · · · · · · ·		more in diameter at breast height (DBH), regardless of
		height.
5		
6		than 2 in DPH and greater than 3.28 ft (1 m) tall
7		
8		
9		of size, and woody plants less than 3.28 ft tail.
10		Woody vine - All woody vines greater than 3.28 ft in
11		height.
12.		
12.	30 = Total Cover	
50% of total cover:	$\frac{15}{20\%}$ 20% of total cover: $\frac{2}{20\%}$	
Woody Vine Stratum (Plot size: 30 × 30)	, v =	-m
1. Smilax rutardifulia	<u> </u>	<u> </u>
2.	•	
3		
		 j
4	 	
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No No
50% of total cover:	: <u>^ ' ン</u> 20% of total cover: _	Tresent: res
Remarks: (If observed, list morphological adaptatio	ons below).	
Comarks. (it observed, nat morphological adaptatio	······································	
}		
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epth inches)					or committee	he absence of in	
	Matrix Color (moist)	%	Redox Color (moist)	Features Type	Loc ²	Texture	Remarks
-20	104RS/2	99 0	4RS/3	1 6		SL	
	· / · · · · ·	- 					
		- 			 -		
							
					 .		
					 .		
/pe: C=Co	ncentration, D=De	pletion, RM=Re	duced Matrix, MS	S=Masked Sand	Grains.		Pore Lining, M=Matrix.
dric Soil I	ndicators: (Applic	cable to all LR				$\overline{}$	Problematic Hydric Soils ³ :
Histosol				low Surface (\$8)			(A9) (LRR O)
	pipedon (A2)			ırface (S9) (LRR	•		(A10) (LRR S) Tertic (F18) (outside MLRA 150A,B
Black Hi	stic (A3) n Sulfide (A4)			y Mineral (F1) (L ed Matrix (F2)	.RR U)		Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma				Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	= '	Surface (F6)		(MLRA 1	_
	ıcky Mineral (A7) (L			rk Surface (F7)			t Material (TF2)
7	esence (A8) (LRR	-	Redox Depr				ow Dark Surface (TF12)
=	ıck (A9) (LRR P, T)		Marl (F10) (I	LRR U) chric (F11) (MLR.	A 151\	⊥ Other (Exp	olaiπ in Remarks)
-	d Below Dark Surfa ark Surface (A12)	ice (ATT)		nese Masses (F1		T) ³ Indicator	s of hydrophylic vegetation and
_	rairie Redox (A16)	(MLRA 150A)	_	ace (F13) (LRR		•	hydrology must be present,
€	Jucky Mineral (S1)	-	_	(F17) (MLRA 1		unless	disturbed or problematic.
_	Gleyed Matrix (S4)		 	ertic (F18) (MLR			
=	Redox (S5)		_	loodplain Soils (F			(20)
=	d Matrix (S6)	C T 11)	Anomaious	Bright Loamy Sc	IIS (FZU) (MILK	A 149A, 153C, 15	נטנא
	urface (S7) (LRR P Layer (if observed				· · · · · · -	-	
Type:	Layer (ii observe.	-,.				1	
	nches):		_			Hydric Soil Pr	esent? Yes No
Remarks:						1 ,	
emarks.							
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Upland data point wnao003_u facing southeast.

Project/Site: ACP	City/County: NaSh Sampling Date: 7/29/14
Applicant/Owner: Dominion	State: NC Sampling Point: Wnao 002f-W
	. <i>I</i> N
Landform (hillslope, terrace, etc.): Flort	Local relief (concave, convex, none): \$100+ Slope (%): 0-2
Subregion (LRR or MLRA): LRR P Lat: 35.	79649 Long: 78, 04640 Datum: W6584
Soil Map Unit Name: Rains Sonta 1000	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	NVVI classification.
Are Vegetation, Soil, or Hydrology significantly	
Are Vegetation, Soil, or Hydrology naturally pr	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled Area
Hydric Soil Present? Yes NoNo	within a Wetland? Yes No
Wetland Hydrology Present? Yes Ves No	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1)	
High Water Table (A2) Harl Deposits (B	
Saturation (A3)	
	spheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	duction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	
Iron Deposits (B5) Under (Explain in	in Remarks)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	hes): NA
Water Table Present? Yes No Depth (incl	- 500
Saturation Present? Yes No Depth (incl	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pl	photos, previous inspections), if available:
Demodus	
Remarks:	
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m 1				
70 . 21)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' × 30)	% Cover	Species?		Number of Dominant Species
1. Pinus taeda	2 O	Y	FAC	That Are OBL, FACW, or FAC: (A)
	10	\v	EW.	
2. Liquidambar Styraci Flua				Total Number of Dominant
3. Acer rubium	5	N	FAL	Species Across All Strata: (B)
——————————————————————————————————————				Openics / miross / mirotidia.
4			 i	Percent of Dominant Species
5			_	That Are OBL, FACW, or FAC: (A/B)
				Mat Ale Obi, 1 AOVI, 01 1 AO:
6				Prevalence index worksheet:
7				Frevalence muck worksheet.
				Total % Cover of: Multiply by:
8	2.6			OBL species x 1 =
	<u> 35 </u>	= Total Co	ver	·
50% of total cover: <u>/ 7 -</u>	20% of	total cover	r <i>-</i>	FACW species x 2 =
	20 /6 01	total cove	'· - '	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)			-	1
1. Liquidambar Styraciflua	10	Y	F/X	FACU species x 4 =
	12	N	E0414	UPL species x 5 =
2. VACCINIUM roumbosum	<u>- 12</u>		FACW	1
3. TICK OPACA	5	\sim	FAC	Column Totals: (A) (B)
	<u> </u>	N	<u> </u>	
4. SUMPOLOS tinctoria		<u>'v</u>		Prevalence Index = B/A =
5. Clethra alnifolia	10	Ą,	FACW	
·	- 	<u> </u>	FACE	Hydrophytic Vegetation Indicators:
6. Magnolia Virginiana	<u>ر</u> _		I-HU	Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
				1 📻
8				3 - Prevalence Index is ≤3.0 ¹
	<i>5</i> 0	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
J				The problematic Hydrophytic vegetation (Explain)
50% of total cover:	2 20% c	of total cove	er:	
Herb Stratum (Plot size: 5 × 5)				True of the contract of the co
THE D Stratum (Flot Size.	173	J	001	¹Indicators of hydric soil and wetland hydrology must
1. Calamagrost. 5 COOFC tase	_ 10		OBL	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2			-	Definitions of Four vegetation Strata.
3				Tues Marada ulanta analysias vinas 3 in (7.6 am) ar
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				I more in diameter at breast beiddt (LIRH), redatoless Di., I
5.				height.
5				height.
5				height. Sapling/Shrub – Woody plants, excluding vines, less
6				height.
6 7				height. Sapling/Shrub – Woody plants, excluding vines, less
6				height. Sapling/Shrub – Woody plants, excluding vines, less
6				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
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6				height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	10		Cover	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	10		Cover	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	10		Cover	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6			Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	10		Cover	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6			Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6			Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6			Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	5 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	5 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
6	5 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
6	5 10 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
6	5 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 10 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
6	5 10 20%	= Total Co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6. 7. 8. 9. 10. 11. 12. Som i (Ax (Otal cover: 30 x 30)) 1. Som i (Ax (Otal cover: 30 x 30)) 2. 3. 4. 5.	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
6	5 20% 5 20%	= Total (of total co	Cover ver: Z	height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

epth	ription: (Describe t		Redo	x Features				
ches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
)- [4	104R3/2	100					<u>SL</u> _	
-20	104R 5/2	<u>45</u>	104R5/4	10	C	\sim	<u>SL</u> _	
	,		104R5/1	5	\Box	Μ	51_	
		. —						
	 							
								
								
				-				
pe: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	IS=Masked	Sand G	rains.		L=Pore Lining, M=Matrix.
	Indicators: (Applic	able to all					_	r Problematic Hydric Soils ³ :
Histoso	, ,		Polyvalue B					ck (A9) (LRR O) ck (A10) (LRR S)
l.	pipedon (A2) listic (A3)		Loamy Muc					Vertic (F18) (outside MLRA 150A,B
•	en Sulfide (A4)		Loamy Gley			,		t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted M	atrix (F3)				us Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	-	Redox Dark	•	•			153B)
	ucky Mineral (A7) (L		 Depleted D Redox Dep 					ent Material (TF2) allow Dark Surface (TF12)
•	resence (A8) (LRR l iuck (A9) (LRR P, T)		Marl (F10)		J)			xplain in Remarks)
_	ed Below Dark Surface		☐ Depleted C		(MLRA	151)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Thick	ark Surface (A12)		Iron-Manga			(LRR O, P	, T) ³ Indicat	tors of hydrophytic vegetation and
	Prairie Redox (A16) (ind hydrology must be present,
-	Mucky Mineral (S1)	(LRR O, S						ss disturbed or problematic.
_	Gleyed Matrix (S4) Redox (S5)					150A, 150E 9) (MLRA 1		
-	ed Matrix (S6)						RA 149A, 153C,	153D)
	urface (S7) (LRR P,	S, T, U)		.	,	, .,		,
	Layer (if observed							
Type: _								
Depth (inches):						Hydric Soil F	Present? Yes No
lemarks:				-			-	



Wetland data point wnao002f_w facing south.

Project/Site: ACP	City/County: NAS	h	_ Sampling Date: 7/29/14
Applicant/Owner: Dominion			Sampling Point: WNA 0002 -L
Investigator(s): ESI-K. MUTPhrey/J.	Gay_ Section, Township, R	ange: NA	
Landform (hillslope, terrace, etc.): Flat		convex, none): Fla	+ Slope (%): <u>U−2</u>
Subregion (LRR or MLRA): LRRP Lat	35.79660	Long: -78,046	38 Datum: W6884
Soil Map Unit Name: Rains Sondy 100		NWI classi	. 1
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes No	(If no, explain in	
Are Vegetation, Soil, or Hydrology sign			" present? Yes No
Are Vegetation, Soil, or Hydrology nat		needed, explain any ansi	
			•
SUMMARY OF FINDINGS – Attach site map sl		liocations, transec	is, important leadures, etc.
Hydrophytic Vegetation Present? . Yes No		ed Area	
Hydric Soil Present? Yes No	within a vvet	land? Yes	No
Wetland Hydrology Present? Yes No Remarks:			
Tremano.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is required: check all the	at apply)	Surface S	Soil Cracks (B6)
	auna (B13)	— • •	Vegetated Concave Surface (B8)
	osits (B15) (LRR U)		Patterns (B10)
	n Sulfide Odor (C1) Rhizospheres along Living R	_	m Lines (B16) son Water Table (C2)
	e of Reduced Iron (C4)		Burrows (C8)
	on Reduction in Tilled Soils (= :	n Visible on Aerial Imagery (C9)
	ck Surface (C7)	Geomor	ohic Position (D2)
	xplain in Remarks)	<u> </u>	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)			utral Test (D5)
☐ Water-Stained Leaves (B9) Field Observations:		Spnagrii	um moss (D8) (LRR T, U)
Surface Water Present? Yes No	oth (inches): NA		
Water Table Present? Yes No De	oth (inches): \(\frac{\frac{1}{20"}}{20"}\)		
Water Table Present? Yes No De Saturation Present? Yes No De	oth (inches): >20"	Wetland Hydrology Pr	resent? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well,	aenai photos, previous inspec	tions), if available:	
Remarks:			
·			

	A1	Deminant	In all and an all	
Tree Stratum (Plot size: 30'\x30')		Dominant Species?		Dominance Test worksheet:
ree Stratum (Plot size:)				Number of Dominant Species
1. PINOS TOLEGO	15		FAC_	That Are OBL, FACW, or FAC: (A)
2. Liquidambar Styracifica	L 20	Ý	FY	
• • • • • • • • • • • • • • • • • • • •	16	1/1	EN	Total Number of Dominant
B. ACEV YUBIUM	_ 10_		PU	Species Across All Strata: (B)
4		,		
				Percent of Dominant Species
5		·		That Are OBL, FACW, or FAC: (A/B)
3				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8.				
	45	= Total Cov	/er	OBL species x 1 =
h 11			_	FACW species x 2 =
50% of total cover: 22	. <u>~</u> 20% of	total cover		
Sapling/Shrub Stratum (Plot size: 15 x 15)				FAC species x 3 =
I TIEX OPACA	<	N1	FA	FACU species x 4 =
	- 	12/	110	
QUETCUS nigra	10	_1	FAC.	UPL species x 5 =
3. Vaccinium corymbosum	$-\overline{1}$	V	FIXW	Coiumn Totals: (A) (B)
	- }_			
1. Nyssa sylvatica	5	<u> </u>	FRC.	Prevalence Index = B/A =
ciethra alnisolia	<	~	FACW	
. CICIVIO MINORA			1/10 "	Hydrophytic Vegetation Indicators:
6				Rapid Test for Hydrophytic Vegetation
7				· 2 - Dominance Test is >50%
B				- D 3 - Prevalence Index is ≤3.01
	3 5	= Total Co	ver -	
	5		··· '-/	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 13	<u>.—</u> 20% c	it total cove	r:	•
Herb Stratum (Plot size: 5x.5)				The state of the s
,				Indicators of hydric soil and wetland hydrology must
1. none				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
_				-
3			-	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
•				height.
5.				- Indignic
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				Mary and the same of the same
				1100dy Ville - All Woody Villes gleater than 5:20 it in
11				_ height.
12				
		_ = Total C	over	
50% of total cover:	20%	of total cov	er:	_ \
Z/11/2/11				_
Woody Vine Stratum (Plot size: 301×301)			[M	
1. VITIS rotundificia	5	Ą	HK.	
		— 	- 61/	-
2. Smilax rotandifiction	<u> </u>	_ <u>~</u>		_
2				
3				_
4				→ [
5.				II book ii
J				— Hydrophytic
		= Total •	Cover, ,	Vegetation
50% of total cover:	3 <i>5</i> 20%	6 of total co	ver 1.4	Present? Yes No
		. JI (JIAI 60	YG1. 1 . 1	-
Remarks: (If observed, list morphological adaptations	below).			
(1,00001100,100110000000000000000000000				
Ļ				
1				
i				•
				•
				•
				•
				•

	ription: (Describe 1	to the dept	h needed to docum	nent the indic	ator or confirm	the absence of inc	dicators.)
Depth	Matrix			x Features		T (
(inches)	Color (moist)	*	Color (moist)	<u> % Тү</u>	pe¹ Loc²		Remarks
<u>()- </u>	104R3/2	100		. — 	_	<u>SL</u>	
7-10	104RS/2	48	104R5/6	_2	<u> </u>	54	
1/2-7()	10/18 5/3	45	104R5/4		\overline{N}	<u> </u>	
10 ac	100/1×2/	2	10416371	· 			
	· · · · · · · · · · · · · · · · · · ·						··· ·····
							
	· · · · · · · · · · · · · · · · · · ·	- 					
	oncentration, D=Dep						Pore Lining, M=Matrix.
	Indicators: (Applic	able to all					Problematic Hydric Soils ³ :
Histoso	• •				S8) (LRR S, T, I		(A9) (LRR O)
	pipedon (A2)			urface (S9) (Ll			(A10) (LRR S)
=	listic (A3)		=	cy Mineral (F1)			erlic (F18) (outside MLRA 150A,B)
	en Suifide (A4)		=	ed Matrix (F2)			loodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma	` '			Bright Loamy Soils (F20)
=	Bodies (A6) (LRR F		=	Surface (F6)	7\	(MLRA 1	•
_	lucky Mineral (A7) (L		75	ark Surface (F7	"		t Material (TF2) ow Dark Surface (TF12)
	resence (A8) (LRR U		Marl (F10) (essions (F8)			ow Dark Suπace (1F12) Iain in Remarks)
=	luck (A9) (LRR P, T)			ERR U) chric (F11) (Mi	RA 151\	LI Other (EXP	nam ar ivernams)
= :	ed Below Dark Surfac Dark Surface (A12)	ce (ATT)			(F12) (LRR O, F	P. T) ³ Indicator	s of hydrophytic vegetation and
	Prairie Redox (A16) ((MI DA 150	= -	face (F13) (LR			I hydrology must be present,
	Mucky Mineral (S1)	-	· —	c (F17) (MLR			disturbed or problematic:
	Gleyed Matrix (S4)	(LIXIX O, O)	_		.RA 150A, 150E		actarged or problematio.
-	Redox (S5)		_		s (F19) (MLRA 1	·	
	ed Matrix (S6)			•		.RA 149A, 153C, 15	3D)
== ' '	Surface (S7) (LRR P,	S. T. U)	/ diomaiodo	Diigin Louin,	(, <u></u> , (,		,
	Layer (if observed					· · · · · · · · · · · · · · · · · · ·	
Type:_	. <u> </u>	-,-]	_
l						Hydric Soil Pro	esent? Yes No
	inches):					Hydric Son Pri	esentr res No
Remarks:							
1							
	·						
ļ							
i.							
i.							



Upland data point wnao002_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: _ACP City/County: NoSh Sampling Point: Whao Oolf. Applicant/Owner: Dominion Investigator(s): FSI-K. MUTPh(Py/J. Gay Section, Township, Range: NA Landform (hillslope, terrace, etc.): Flort Local relief (concave, convex, none): FID+ Subregion (LRR or MLRA): LRRP Long: -78,05232 Soil Map Unit Name: ___ Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? No within a Wetland? Yes Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) → High Water Table (A2) Moss Trim Lines (B16) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres along Living Roots (C3) Water Marks (B1) Crayfish Burrows (C8) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Geomorphic Position (D2) Algal Mat or Crust (B4) Thin Muck Surface (C7) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Depth (inches): Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

EGETATION (Four Strata) – Use scientific n	ames of pla	ants.		Sampling Point:
2012-201		Dominant		Dominance Test worksheet:
ree Stratum (Plot size: 301) 30 (Species?		Number of Dominant Species
Liquidombay Styrociflua	_ 10	y	FAC	That Are OBL, FACW, or FAC:(A)
<u>Quercus</u> niava	_ 10_	<u> </u>	FA	Total Number of Dominant
			·	Species Across All Strata: (B)
•				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
•				
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
•		= Total Co		OBL species x 1 =
				FACW species x 2 =
50% of total cover:	70 20% o	t total cove	r:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 x 15)		· ·	A -)
Magnolia Virginiana	10	. <u> </u>	FACW	FACU species x 4 =
I I'ex Olaca	_ 	Ń	FAC	UPL species x 5 =
	20	· · · · · · · · · · · · · · · · · · ·	FACW	Column Totals: (A) (B)
B. <u>Cletura alnifolia</u>	^_	' _	- <u> </u>	
l			- ——	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
5				Rapid Test for Hydrophylic Vegetation
7				2 - Dominance Test is >50%
3			_	-
	32	_ = Total C	over, , I.	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	، 20% حا	of total cove	er: 6.7	
Herb Stratum (Plot size: 5 × 5)				11 - 15 - 4
heid Stratom (Flot size.	15	∀	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Avundinaria Ogantea	<u></u>		-1-10-0	
2				Definitions of Four Vegetation Strata:
3			_	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				Tree Troody plants, excitating the control of the
				height.
5				-
6		_ 		 Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb - All herbaceous (non-woody) plants, regardless
8				of size, and woody plants less than 3.28 ft tall.
9				_ 01 3/26, and 1100dy planta leas than 0.20 it is
10				 Woody vine - All woody vines greater than 3.28 ft in
11				_ height.
12.				
1-1		= Total	Covor	
	ے ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔			
50% of total cover: _	7.3 20%	ot total co	ver:	'
Woody Vine Stratum (Plot size: <u>3ットろい</u>)	_	1.1		
1. VITIS ruturalifolia	10	Y	FAC	
2. Smilax ruturdixulia	10	<u> </u>		_
2. JULIUX TOTOLITA			[- [
3				
4.				_ }
5.				1 budge - houtle
·	2.0	7		Hydrophytic Vegetation
•	, <u>^</u>	= Total	11	Present? Yes No
50% of total cover:	10 20	% of total c	over:	
Remarks: (If observed, list morphological adaptation	ns below).			
Tremains. (ii observed, list morphological adaptation	20.011).			
1				
1				
1			•	
•				
1				•

rofile Dose	rintion: /Describe	to the don	oth needed to docum	nent the indic	ator or confirm	the absence o	of indicators.)
		ro rue deb			ator or commit	THE BUSCILLE O	, maloators,
Depth (inches)	Matrix Color (moist)		Color (moist)	x Features % Tv	pe' Loc²	Texture	Remarks
)- ¹ 7	10482/2	98	104R5/3	7	PL	<u> </u>	
			1001275	· - 		<u> 5L</u> .	
7-2 <u>U</u>	104R 5/2	95	10VR5/4		<u> </u>	<u> </u>	
	•		I				
							
							
ype: C=C	oncentration, D=Dep	oletion, RM	I=Reduced Matrix, M	S=Masked Sa	nd Grains.		PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applic	cable to al	LRRs, unless othe	rwise noted.)		Indicators	for Problematic Hydric Soils ³ :
Histoso	I (A1)		Polyvalue B	elow Surface (S8) (LRR S, T, I		luck (A9) (LRR O)
Histic E	pipedon (A2)		Thin Dark S	urface (S9) (Li	RR S, T, U)		luck (A10) (LRR S)
	listic (A3)		Loamy, Mucl	ky Mineral (F1)	(LRR O)	<u></u> Reduce	ed Vertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		☐ Joamy Gley	ed Matrix (F2)		Piedmo	ont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma	atrix (F3)		<u></u> L Anoma	alous Bright Loamy Soils (F20)
	c Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F6)		(MLF	RA 153B)
_	lucky Mineral (A7) (L		J) 🔲 Depleted Da	ark Surface (F	7)		arent Materiat (TF2)
	Presence (A8) (LRR			essions (F8)		Ų Very S	shallow Dark Surface (TF12)
=	luck (A9) (LŔŔ P, T)		∏ Marl (F10) (<u>↓</u> ↓ Other ((Explain in Remarks)
_	ed Below Dark Surfa			chric (F11) (M	LRA 151)		
Thick [Dark Surface (A12)		∏ Iron-Manga	nese Masses	(F12) (LRR O, P		cators of hydrophytic vegetation and
Coast	Prairie Redox (A16)	(MLRA 15	0A) 🔲 Umbric Sur	face (F13) (LR	R P, T, U)	wet	tland hydrology must be prese⊓t,
	Mucky Mineral (S1)			c (F17) (MLR /	A 151)	นทโ	less disturbed or problematic.
-	Gleyed Matrix (S4)			ertic (F18) (ML	RA 150A, 150E	3)	
=	Redox (S5)		Piedmont F	loodplain Soil:	s (F19) (MLRA 1	149A)	
	ed Matrix (S6)		Anomalous	Bright Loamy	Soils (F20) (ML	.RA 149A, 153C	C, 153D)
	Surface (S7) (LRR P.	, S, T, U)					<u> </u>
Restrictiv	e Layer (if observed	d):					-
Type:_						Į.	
	inches):					Hydric Soi	il Present? Yes No
	(interico)						
Remarks:							



Wetland data point wnao001f_w facing west.

Project/Site: ACP	City/County: _ N &S	√ Samo	ling Date: 7/29/14
Applicant/Owner: Dom (0.00	Only/Oddings S	State: N Samp	ling Point: Whas OOI_u
Investigator(s): EST-K.Murphrey	1J. Cary Section Township De	ongo: NA	mig r ond
Investigator(s):	Section, Township, Ra	FIAL	0 90. 7 - 3
Landform (hillslope, terrace, etc.): + 1 A + Subregion (LRR or MLRA): L RR P	Local relief (concave,	convex, none): 11 (C)	Slope (%):
Subregion (LRR or MLRA): LYCK	Lat: <u>551 10 0 0 0</u>	Long: <u>-10,03253</u>	Datum: W 520 [
Soil Map Unit Name: Sibb 106M		NWI classification:	· NA
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes No	(If no, explain in Remark	s.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed? Are	"Normal Circumstances" presen	1? YesNo
Are Vegetation, Soil, or Hydrology		needed, explain any answers in R	lemarks.)
SUMMARY OF FINDINGS – Attach-site ma		locations, transects, imp	oortant features, etc.
Libration Discounts Von	No.	· Allins	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No lis the Sample		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes	No within a Wetl	and? 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 Crac	ks (B6)
Surface Water (A1)	atic Fauna (B13)	— • • • •	ed Concave Surface (B8)
1 	Deposits (B15) (LRR U)	Drainage Pattem	
	rogen Sulfide Odor (C1)	Moss Trim Lines	
	liżed Rhizospheres along Living Ro		i i
(sence of Reduced Iron (C4)	Crayfish Burrows	e on Aerial Imagery (C9)
1 菩 - ···· - · · · · · · · · · · · · · ·	ent Iron Reduction in Tilled Soils (0 1 Muck Surface (C7)	Geomorphic Pos	1
	er (Explain in Remarks)	Shallow Aquitard	1
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Tes	· · · · · · · · · · · · · · · · · · ·
Water-Stained Leaves (B9)		=	(D8) (LRR T, U)
Field Observations:	- IA		
Surface Water Present? Yes No	Depth (inches): NA	•	
Water Table Present? Yes No	Depth (inches):		ا
	Depth (inches):	Wetland Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring value)	vell, aerial photos, previous inspec	tions), if available:	
	·		
Remarks:	,		
	•		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			•

Absolute Mominant Indicator Species? Status 1. LICIOARDOON FULLIFIERS 2. ALEV VUNDRUM 3. QUEVEUS NIGOTO STATES 4. LIQUIDONDON STATES 5. NIGOTO STATES 6. Prevalence Index worksheet: Total % Cover of:	4 (A) 6 (B) 67 (A/B)
That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	6 (B)
That Are OBL, FACW, or FAC: A (e v v v v v v v v v v v v v v v v v v	6 (B)
Total Number of Dominant Species Across All Strata: Liquidambay Styracistua S Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	<u>67</u>
DURICUS MIGRO 5 N FA Species Across All Strata: Liquidombox Styrocistus 5 N FA Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	6 ⁷
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	6 ⁷
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	67 (A/B)
That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of:	G 7 (A/B)
Prevalence Index worksheet:	
Total % Cover of:	
I lotal % Cover of:	
	Multiply by:
30 = Total Cover , OBL species x1	<u> </u>
50% of total cover: 15 20% of total cover: 6 FACW species x2	=
50% of total cover. 70 20% of total cover.	
apiing/Shrub Stratum (Plot size:)	
Liquidampar Styracis (uo 10 y FOC FACU species x4	
Aralia Spinosa 15 y Fac UPL species x5	=
71.500	(B)
Phytolacra americana 15 'y FACA Column Totals: (A)	
Prevalence Index = B/A =	
S 1 - Rapid Test for Hydrophytic	: Vegetation
7	
3 3. Prevalence Index is ≤3.0¹	
// D =	
	etation' (Explain)
50% of total cover: 20 20% of total cover: 8	
Herb Stratum (Plot size: 5 x 5) Indicators of hydric soil and wet	and hydrology must
hand a distributed on a	roblematic.
2 Definitions of Four Vegetation	Strata:
3 Tree – Woody plants, excluding	uinon 3 in 17 R cm) o
Tree - Woody plants, excising	
hoigh	. (DDI I), regardiess o
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-woo	
9 of size, and woody plants less the	an 3.28 ft tall.
10	wanter than 2 20 ft in
10 Woody vine - All woody vines g	reater than 3.28 ft in
10	reater than 3.28 ft in
10 Woody vine - All woody vines g	reater than 3.28 ft in
10	greater than 3.28 ft in
10 Woody vine - All woody vines of height. 12 = Total Cover	greater than 3.28 ft in
10 Woody vine - All woody vines of height. 11 = Total Cover 20% of total cover:	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	greater than 3.28 ft in
10	
10	greater than 3.28 ft in
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10	
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10	
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10	
10	

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the i	ndicator o	or confirm	the absence of i	ndicators.)		
Depth (inches)	Matrix Color (moist) (Cy(75/2	<u></u> <u>%</u> -		k Feature:	5	Loc ²	Texture		Remarks	
	•									
				-						
								•		
Hydric Soil	Concentration, D=Del		RRs, unless other	rwise not	ted.)			r Problemat	tic Hydric Soi	s³:
Black H Hydrog Stratific Organi 5 cm M Muck F 1 cm M Deplet Thick I Coast Sandy Sandy Stripp	of (A1) Epipedon (A2) Histic (A3) Hen Sulfide (A4) Hen Sulfide (A5) Hen Sulfide (A5) Hen Sulfide (A6) Hucky Mineral (A7) (LER Muck (A9) (LER P, T) Hed Below Dark Surfa Dark Surface (A12) Prairie Redox (A16) Hucky Mineral (S1) Hed Matrix (S4) Hedox (S5) Hed Matrix (S6) Hedox (S7) (LER P, T) Hed Matrix (S6) Hedox (S7) (LER P, T) Hed Matrix (S6) Hedox (S7) (LER P, T)	.RR P, T, U) U) cce (A11) (MLRA 150A) (LRR O, S)	Delta Ochrid Reduced Ve	orface (SS dy Mineral ed Matrix attix (F3) Surface (ark Surface cessions (I LRR U) chric (F11 nese Mas face (F13) c (F17) (N erlic (F18)	(F1) (LRR S, (F1) (LRR (F2) (F6) (F6) (F7) F8) (MLRA 1 (LRR P, 1 (MLRA 151) (MLRA 151) (MLRA 150) (MLRA 150)	T, U) R O) (151) (LRR O, P, T, U)) 50A, 150B) (MLRA 1	2 cm Muc Reduced Piedmon Anomalo (MLRA Very Sha Other (E vetla unles	t Floodplain us Bright Lo 153B) ent Material allow Dark S xplain in Rei tors of hydro nd hydrolog ss disturbed	RR S)) (outside MLI Soils (F19) (LI samy Soils (F20 (TF2) surface (TF12)	on and
	e Layer (if observed									/
Depth Remarks:	(inches):						Hydric Soil I	Present?	Yes	No
İ										
i.										
	·									



Upland data point wnao001_u facing east.