whlh017 soils



Wetland/upland soils

WEILAND DETERMINATION DATA FORM - Atlantic and Guit Coastal Plain Region
Project/Site: 52 Reliability City/County: Halitax Sampling Date: 7-21-1
Applicant/Owner: Dominion State: NC Sampling Point: WHLHO
Investigator(s): DD WEST Section, Township, Range:
Landform (hillslope, terrace, etc.): Ration And Local relief (concave, convex, none): Concave Slope (%):
Subregion (LRR or MLRA): Lat: 36 12 76, 142 Long: 77 45 28.065 Datum:
Soil Map Unit Name: Chastain + Bibb 0. (% 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 Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No No Is the Sampled Area within a Wetland? Yes No
HYDROLOGY
Since the second of the required,
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Quantic Fauna (B13) 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)
Water Marks (B1)
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)
☐ 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):
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:
Pomodo
Remarks:
Hydrology present

	WHLHOIST
Sampling Point:	W

Trans Charles (District		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Per 1	Number of Dominant Species
1. Heer rubrum	35		HACW	That Are OBL, FACW, or FAC: (A)
2. Nyssa b. Floras	915	<u> </u>	OBL	Total Number of Dominant
3. Riverus laur Holra	20	$\overline{\mathcal{L}}$	FACW	Species Across All Strata: (B)
4. Nyssa aquatica	10		DBL	Sector can that are at least resident stand with the sector for th
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				THAT ARE OBE, FACTY, OF FAC
7				Prevalence Index worksheet:
8	-			Total % Cover of: Multiply by:
	So.	= Total Cov		OBL species x 1 =
50% of total cover: 4/7				FACW species x 2 =
0 11 101 1 0	2 20% 01	total cover	16	FAC species x 3 =
	15	\ /	TIME	FACU species x 4 =
	12	\rightarrow	FACW	UPL species x 5 =
2. It pa virginica	15	-	FACW	Column Totals: (A) (B)
o volument road		$-V_{-}$	FACW	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
	45:	Total Cov	er 🔿	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 27.	5 20% of	total cover:	9	Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size:)				1
1. Sources cerrus	60	1	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Boohmeria Cylindrica			FACW	
3. Osmunda regalis	5		ABL	Definitions of Four Vegetation Strata:
4. Woodunardia accessada	10	. 7	OBI	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			000	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				
	90 :	Total Cov	er a/	
50% of total cover: 45		total cover:	/ X	
Woody Vine Stratum (Plot size:		total bovoli		
1. Smelax rotundifolia	10	\/	FRE	
			1710	
3				
4				
5				Hydrophytic
~		Total Cov	_	Vegetation Present? Yes No
50% of total cover:	_ 20% of	total cover:	_2_	resent? Yes No
Remarks: (If observed, list morphological adaptations below	v).			
				74.982

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth	
0-4 WYR	
19-19-1041K-4/2 104R-4/6 720	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix	(1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric S	
☐ 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 M	
Hydrogen Sulfide (A4) Stratified Lower (A5) Piedmont Floodplain Soils (F19) (
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F (MLRA 153B)	20)
1 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Wuck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)	n.
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Very sitaliow bark surface (TF12) Mortification of the complete state of the complete	.)
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 vegeta	ation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be pre	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problemati	c.
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:	
X	
	No
Remarks:	
$\Lambda \Lambda $	
Depleted meetric Win 10" S	
Depleted meetrix w/in 10" of	
Depleted metrix win 10" of	
Depleted matrix w/in 10" of Soil surface	

whlh018f_w



Wetland data point whlh018f_w facing east



Wetland data point whlh018f_w facing south

WEILAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SE Reliability City/County: HALLTAX Sampling Date: 7-21-1
Applicant/Owner: Dominion State: NC Sampling Point: WHLHC
Investigator(s): Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): 0
Subregion (LRR or MLRA):
Soil Map Unit Name: Empona fine sondy lown 2-62 slope 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 Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No Yes No
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) 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)
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):
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:
0 9 80 0 0 1 10 90 PA 180 PA
Remarks:
Wo hydrology present

WHCHO 18 _U Sampling Point: _____

T Ott (DI t :		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Sp	ecies? Status	Number of Dominant Species
1. Liquicambor styrace the		V FAC	That Are OBL, FACW, or FAC:(A)
2. Corya glabra	15_	FACU	Total Number of Dominant
3. Livio Don dron telipitera	20 1	/ FACU	Species Across All Strata: (B)
4,			
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			OBL species x 1 =
7.0	60 = To		FACW species x 2 =
50% of total cover: _30	20% of tota	I cover: 1	
Sapling/Shrub Stratum (Plot size:	0.0	1	FAC species x 3 =
1. Ligure andrer Styrar Due	20 1	V FAC	FACU species x 4 =
2. Ligistrun sinense	30 1	FACU	UPL species x 5 =
3. Drospyros virginana	10	FAC	Column Totals: (A) (B)
4			December 1 to 1 to 1 DO
5			Prevalence Index = B/A =
6.			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
8	10 -		☐ 3 - Prevalence Index is ≤3.01
	<u>60</u> = To	tal Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 30	20% of total	I cover:	
Herb Stratum (Plot size:)	70	/	¹ Indicators of hydric soil and wetland hydrology must
1. Plopidium agiilinum	20	V. FACU	be present, unless disturbed or problematic.
2. Rubus argutus	25	FACU	Definitions of Four Vegetation Strata:
3		1	573 5575 - AMERICA DE SERVICE DE LA LANCOUR DE LA CONTROL D
4			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5			height.
6			Sapling/Shrub - Woody plants, excluding vines, less
7			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
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			
1750, 1753, 1811, 1	5 = Tot	tal Cover	
50% of total cover: 22	5 20% of total	/ A	
Woody Vine Stratum (Plot size:)		^	
1 Smelox 10 tradicalis	30	1 FAC	
2 Rhun chalicen	10	FAC	
3		V THE	
3 1001		- CNC	
4. Vins ratinelitalia	_5	FAC	
5			Hydrophytic
	_50 = Tot	tal Cover	Vegetation
50% of total cover: 25	20% of total	cover: /O	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	w).		The state of the s

Sampling Point: ______

Profile Description: (Des	scribe to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of ir	ndicators.)	
	atrix	Redo	x Feature:	S				
0-4 104R4		Color (moist)		Type'	_Loc ²		Remarks	
C1-14+ IDVR	-					money low	Am	
-1-1-1 10AICE	9 /3					Sonal	OAM.	
	<u> </u>							
			-					
								-
			-			 		
1Turner Ca-Cananatantian I								
¹ Type: C=Concentration, I Hydric Soil Indicators: (A	D=Depletion, RM=R	Reduced Matrix, M	S=Masked	Sand Gra	ains.		Pore Lining, M=Matr	
Histosol (A1)	Applicable to all Li	The state of the s			DD 0 7 11		Problematic Hydric	Soils":
Histic Epipedon (A2)		Polyvalue Be					(A9) (LRR O)	
Black Histic (A3)		Loamy Muck	v Mineral (F1) (LRR	(0)		(A10) (LRR S) ertic (F18) (outside	MI RA 150A R)
Hydrogen Sulfide (A4)		Loamy Gleye			-,	Piedmont F	loodplain Soils (F19)	(LRR P. S. T)
Stratified Layers (A5)	Parameter and the second	Depleted Ma					Bright Loamy Soils	
Organic Bodies (A6) (L 5 cm Mucky Mineral (A		Redox Dark				(MLRA 1	CONTRACTOR AND AND ADMINISTRA	
Muck Presence (A8) (I	RR (I)	Depleted Da					Material (TF2)	10)
1 cm Muck (A9) (LRR	P. T)	Marl (F10) (L))			w Dark Surface (TF1 ain in Remarks)	12)
Depleted Below Dark S	Surface (A11)	Depleted Oc		MLRA 15	51)	_ Other (Expi	all III Relliaiks)	
Thick Dark Surface (A		Iron-Mangan	ese Masse	es (F12) (I	RR O, P,	T) ³ Indicators	of hydrophytic vege	tation and
Coast Prairie Redox (A		Umbric Surfa			U)		hydrology must be p	
Sandy Mucky Mineral Sandy Gleyed Matrix (Delta Ochric				unless d	isturbed or problema	itic.
Sandy Redox (S5)	34)	Reduced Ver				241		
Stripped Matrix (S6)						A 149A, 153C, 153	D)	
Dark Surface (S7) (LR						, ,	-,	
Restrictive Layer (if obse	rved):							
							<u>(*</u>	V
Depth (inches):		_				Hydric Soil Pres	ent? Yes	No
Remarks:								
		۸.	,			. /		
		Na	his	Do	1 -	oilind	- Lan	
		100	109	Cer 1	C 34	OLL LAW	CANOIS	
		A .	050	- L				
		12/	450	N				
		,						

whlh018_u



Upland data point whlh018_u facing east



Upland data point whlh018_u facing north

whlh018 soils



Wetland/upland soils

WETEAND DETERMINATION DATA FOR	w - Atlantic and Guil Coastal Plain Region
Project/Site: EReliab sality City/C	County: AR Sampling Date: 7-21-14
Applicant/Owner: Dominion	State: WC Sampling Point: WHLHO 19
Investigator(s): DWEST Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Bottom land Local	relief (concave, convex, none):CONCIACESlope (%):
Subregion (LRR or MLRA): Lat: 36°12'	13,921" Long:77 045 32,788" Datum:
Soil Map Unit Name: Chastrin + Bibb	0-1205 Ope NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	opling 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)	Secondary Indicators (Infilminant of two required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRI	
Saturation (A3) Hydrogen Sulfide Odor (6	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2)	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	×
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Control of the Control	
Hydrology pre	sent

Sampling Point: ______

	Absolute Descinent Life to	
Tree Stratum (Plot size:	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
1. Nussa Gallora		Number of Dominant Species
100000000000000000000000000000000000000	15 / OBL	That Are OBL, FACW, or FAC: (A)
2. Aler rubrum	25 V FAC	Total Number of Dominant
3. Liquidam box styrociflua	20 V FAC	Species Across All Strata: (B)
4. Itex opaca	S FAC	Openies Across All Strata.
		Percent of Dominant Species CO
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
8.		
	65 = Total Cover	OBL species x 1 =
50% of total cover: 32	5 20% of total cover: 13	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1. Ilax opaca	15 V PAC	FACU species x 4 =
1. The opening		
2. Ligustrin sinense	10 V FACU	UPL species x 5 =
3. Actor rubnem	10 V FAC	Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		
		2 - Dominance Test is >50%
8		3 - Prevalence Index is ≤3.01
Sept.	35 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: [7]	20% of total cover:	Troblematic riyarophytic vegetation (Explain)
Herb Stratum (Plot size:		
1. Dogowardia Geredata	40	¹ Indicators of hydric soil and wetland hydrology must
	90 V OBL	be present, unless disturbed or problematic.
2. Soehmerica glindrica	5 FACW	Definitions of Four Vegetation Strata:
3. Alhyrum telix-finina	70 V FACU	
4. Osmenda cuna momea		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in claimater at broadt neight (bbill), regardless of
5. Microstegin Vininas	10 FAC	height.
		Sapling/Shrub - Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7		than our borrand greater than 0.20 it (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		
- No.	85_ = Total Cover	
50% of total cover:	5 20% of total cover: 17	
	20% of total cover: 1	
Woody Vine Stratum (Plot size:	2 /	
1. Smilox roture toha	5 V FAC	
2.		
3		
4		
5		Hudrophutio
	5 = Total Cover	Hydrophytic Vegetation
		Present? Yes No
50% of total cover: 2		and the second s
Remarks: (If observed, list morphological adaptations belo	w).	
10 B 4	19	

C	\sim	۰	
Э	u	ı	ட

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 ¹ Loc ²	
0-8 WYR311	Spridylown
8-12 TOYRZ12	souly losm
12-18-104R5/2 JUYR 4/6 72	SANDY lown
	7
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix.
	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, L Thin Dark Surface (S9) (LRR S, T, U)	
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) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Redox Depressions (F8)	☐ Red Parent Material (TF2) ☐ Very Shallow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	S
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	- TO
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B)	unless disturbed or problematic.
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	9A)
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR.	
D-4:0-4	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Restrictive Layer (if observed): Type:	V
Restrictive Layer (if observed): Type: Depth (inches):	Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches):	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	V

whlh019f_w



Wetland data point whlh019f_w facing east



Wetland data point whlh019f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: S.E. Roliability City/County: HALL Sampling Date: Applicant/Owner: Dominion State: No Sampling Point: WHLHOL
Applicant/Owner: Dominicon O State: NC Sampling Point: WHLHO!
Investigator(s): Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): 0 - 2
Subregion (LRR or MLRA): Lat: 36 12 14 6/3 Long: 77 45 37 30% Polymer
Soil Map Unit Name: Emporia fine sandy loam 2-62 Sope NWI classification:
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 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled Area
Hydric Soil Present? Yes No
vedadu nyurology Present/ Yes No /
Not all three parameters present
1001 all 1 rel parameters present
,
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) 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)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T. U)
☐ 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:
Remarks:
Do Madrohar Discont
Do hydrology present

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

WHLH	019.	- U
Sampling Point		

Tree Stratum (Plot size:) 1. Li rioclandron tuli ritera 2. Liquidonnon styrnathus 3 4 5 6 7 8		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
50% of total cover: 27. Sapling/Shrub Stratum (Plot size:) 1. Lorisolon from tellpotera 2. Lorisolon from sinense 3. Tlex apaca 4. Calicatpa americana 5. 6	20 / FACU 30 FACU 10	FACW species
50% of total cover: 35 Herb Stratum (Plot size:) 1/// 12 ros legim (FIM t noc. 2	20 V FAC	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 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.
So% of total cover: 1. Share (Plot size: 1. Share (= Total Cover 20% of total cover: S FAC S FA	Hydrophytic Vegetation Present? Yes No

SOIL		Sampling Point	#FH01
Profile Description: (Describe to the depth needed to document the indicator or confirm	n the absence	of indicators.)	
Depth Matrix Redox Features			
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture	Remarks	
	31		
0-8 104R4/2	21		
8-16 *10 VR 4/2			
16-20+104R K14			
1020 10110 1			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location:	PL=Pore Lining, M=Matr	ix.
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	J) 1 cm N	luck (A9) (LRR O)	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)		luck (A10) (LRR S)	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR 0)		ed Vertic (F18) (outside	MI DA 1EOA DI
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)		ont Floodplain Soils (F19)	
Stratified Layers (A5) Depleted Matrix (F3)			
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6)		lous Bright Loamy Soils	(F20)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)		RA 153B)	
Muck Presence (A8) (LRR U) Redox Depressions (F8)		rent Material (TF2)	
		hallow Dark Surface (TF1	12)
[U Other (Explain in Remarks)	
	- 2		
		ators of hydrophytic vege	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)		and hydrology must be p	
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)		ss disturbed or problema	itic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)			er messa
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	9A)		
☐ Stripped Matrix (S6) ☐ Anomalous Bright Loamy Soils (F20) (MLR	A 149A, 153C,	153D)	
Dark Surface (S7) (LRR P, S, T, U)			
Restrictive Layer (if observed):			***************************************
Type:			\
Depth (inches):	Hydric Soil	Present? Yes	NA
Remarks:	nyunc son	riesentr res	NO
No hydra so	J P	resent	

whlh019_u



Upland data point whlh019_u facing east



Upland data point whlh019_u facing north

whlh019 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FOR	M – Atlantic and Gulf Coastal Plain Region
Project/Site: Reliability City/C	Sounty: Nampling Date: 7-21-14
Applicant/Owner: Dominion	State: NC Sampling Point: WHLH 0 2
Investigator(s): DD CUE ST Section	on, Township, Range:
Landform (hillslope, terrace, etc.): Bartom rand Local	relief (concave, convex, none): Loncave Slope (%):
Subregion (LRR or MLRA): Lat 36 11 5	4.5 47" Long: 77°45 '39, 333" Datum:
Soil Map Unit Name: Chastren + Bibb	0-120 Slope NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? You	. /
Are Vegetation, Soil, or Hydrology significantly disturt	\sim /
Are Vegetation, Soil, or Hydrology naturally problema	는 말로 되는 1차 시간하다 하다 등에서 발생하다. 기업은 마스타양 가스타양 (1915년 - 1915년 - 1915년 - 1917년 - 1917년 - 1917년 - 1917년 - 1917년 - 1
SUMMARY OF FINDINGS - Attach site map showing sam	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: 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 apply) Surface Water (A1) Aguatic Fauna (B13)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR	Sparsely Vegetated Concave Surface (B8) Prainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres al	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark: ☐ Inundation Visible on Aerial Imagery (B7)	s) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
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, prev	vious inspections), if available:
Remarks:	
	A
Hydrology P	nesen

Sampling Point:

	About 6 in the first	15
Tree Stratum (Plot size:	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
		Number of Dominant Species / /
" Liquedinon Styracithia		That Are OBL, FACW, or FAC:(A)
2. Panus tacola	15 J FAC	T-1-111
3. Queraus nigra	15 1) FAC	Total Number of Dominant
4. Aror rybrum	20 J FAC	Species Across All Strata: (B)
	FAC THE	Percent of Dominant Species 97
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
V	77	OBL species x 1 =
7/	Total Cover	
50% of total cover: 35	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot-size:)	,	FAC species x 3 =
1. Clother wolnitely	40 / FAOW	/ FACU species x 4 =
2 80		UPL species x 5 =
2. Duareus nigra	20 V FAC	
3. Diospyros virginiana	10 FAC	Column Totals: (A) (B)
4. Voccinion composion	20 V FACE	Prayalance Index = B/A =
5		r revalence index - b/A -
6.		Hydrophytic Vegetation Indicators:
6	·	1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8	Variable Section 1997	3 - Prevalence Index is ≤3.01
21/-	90 = Total Cover	The state of the s
50% of total cover:	20% of total cover: 18	Problematic Hydrophytic Vegetation ¹ (Explain)
Hosh Stratum (Dist size	20% of total cover:	
Herb Stratum (Plot size:)	110	, Indicators of hydric soil and wetland hydrology must
1. Arundinaria cematoa	TU J FACO	be present, unless disturbed or problematic.
2. Rubus argustus	20 V FACU	Definitions of Four Vegetation Strata:
		John Maria de l'aut vagatation dirata.
		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 Wasdunlants audit direction to
7		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8		and o m. Dorrand greater than 3.20 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	- Sir	Westware Allered Level 1 0 000
11		Woody vine – All woody vines greater than 3.28 ft in height.
12		noight.
1.1711 - 1.11 -	70	
7	Total Cover	
50% of total cover:	2 20% of total cover:/	-
Woody Vine Stratum (Plot size:)	757 SE 757 CILO S	
1. & Smoox ontre Oleta.	25 V FAC	
2 Rhina Can	16 / 15/16	
2. January Bally	16 VAC	
3. Vitis rotunditolia	10 V FAC	
4		
5		
	US - Total Same	Hydrophytic
25	45 = Total Cover	Vegetation Present? Yes No
50% of total cover: 22.5		165
Remarks: (If observed, list morphological adaptations below	v).	A-11-12-13-13-13-13-13-13-13-13-13-13-13-13-13-

SOIL

1 DHT	HD	zof-w
g Point:		_

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of indic	cators.)	
Depth	Matrix		Redo	x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	
0-6	104R3/2			,			Sprilylon	m	
6-16+	104R5/2	1	JYR41/6+5,	8720	_	m	SCL		
		22							
		- 1975 -	U						
¹Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix. M	S=Masked	Sand Gra	ains .	² Location: PL=Por	e Lining M=Matri	iv .
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	ed.)		Indicators for Prol	blematic Hydric	Soils ³ :
☐ Histosol	(A1)		Polyvalue Be	low Surface	ce (S8) (L	RR S, T, U)			
2000	pipedon (A2)		Thin Dark Su	ırface (S9)	(LRR S,	T, U)	2 cm Muck (A1		
	stic (A3)		Loamy Muck	y Mineral ((F1) (LRR	0)	Reduced Vertic	(F18) (outside I	
	n Sulfide (A4) I Layers (A5)	,	Loamy Gleye		F2)			dplain Soils (F19)	
	Bodies (A6) (LRR P,	T III 4	Depleted Ma Redox Dark		C)			ght Loamy Soils (F20)
5 cm Mu	cky Mineral (A7) (LR	R P. T. U)	Depleted Da				(MLRA 153B) Red Parent Ma		
Muck Pr	esence (A8) (LRR U)	, ., -,	Redox Depre					neriai (1F2) Park Surface (TF1	2)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	1.07	,		Other (Explain		-/
	Below Dark Surface	(A11)	Depleted Oc						
	rk Surface (A12)		Iron-Mangan					hydrophytic vege	
Sandy M	airie Redox (A16) (M lucky Mineral (S1) (L	RROSI	Umbric Surfa Delta Ochric			U)		rology must be pr	
Sandy G	leyed Matrix (S4)	11110,0,0	Reduced Ver			A 150B)	unless distu	rbed or problema	tic.
	edox (S5)	Î	Piedmont Flo				Α)		
	Matrix (S6)]					149A, 153C, 153D)		
	face (S7) (LRR P, S,	T, U)				10.51			
14400000000	.ayer (if observed):								
Type:			-					\vee	1
Depth (inc	:hes):		-				Hydric Soil Present	? Yes	No
Remarks:				-	`		^		1
		11	goiz <	. ` (.)		1		
		Auc	Your ?	502	X DV	200	W		
		1			0				

whlh020f_w



Wetland data point whlh020f_w facing east



Wetland data point whlh020f_w facing south

WEI EARD DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SE Reliability City/County: Hallow Sampling Date:
Applicant/Owner: Dimension State: NK Sampling Point: WHLHD
Investigator(s):Section, Township, Range:
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): 52
Subregion (LRR or MLRA):
Soil Map Unit Name: Emporice Line standy com 2-6% Slope 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 Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: No Is the Sampled Area within a Wetland? Yes No Remarks: No Is the Sampled Area within a Wetland? Yes No Yes No No No No No No No No No No
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Deinocal Indicators (minimum of two required)
High Water Table (A2) Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Spharnum mass (D2) (LBB T. II)
☐ Water-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes NoX Depth (inches):
Water Table Present? Yes No Depth (inches): \(\sum_{\ell} \)
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No wetland hydrology indicators present

WHLHDZO. -U

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

(The Character) Coc scientific He			Sampling Poin	ıt:
Tree Stratum (Plot size: 30	Absolute Domin	ant Indicator	Dominance Test worksheet:	
1. Pinus tacclar	% Cover Specie	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	<u> (A)</u>
2. Liquidante Sty cutter	10	FAC		(/\)
3. Queus staller Nigra	10 /	FAC	Total Number of Dominant	15,40,000
4. Oxyclendry arboreum	10		Species Across All Strata:	(B)
5 Commander and Services	10 V	/	Percent of Dominant Species / / /	
5. Carya glabra		_ FACU	That Are OBL, FACW, or FAC:	(A/B)
6			N=111=-	(////)
7			Prevalence Index worksheet:	
8			Total % Cover of: Multipl	y by:
	56		OBL species x 1 =	
27	_55 = Total (Cover		
50% of total cover: 27-	20% of total co	/er:	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size:)		,	FAC species x 3 =	
1. Ilex ofice	10	FAL	FACU species x 4 =	
2. Oxydendrum orborenm	10	FACV	UPL species x 5 =	
3. Querons alba	10		Column Totals:(A)	
1/2 1/2 1/2/2	10	FACU	(A)	(B)
4. Lauge globre	10	FACU	Prevalence Index = B/A =	
5. Sachitras albidum	2	PACU	Hydrophytic Vegetation Indicators:	
6				
7			1 - Rapid Test for Hydrophytic Vegeta	ation
8.			2 - Dominance Test is >50%	
0.	7/2	_	3 - Prevalence Index is ≤3.01	
	<u> 42</u> = Total C	over	Problematic Hydrophytic Vegetation ¹	(Evolain)
50% of total cover: 2	20% of total cov	er: 84	- i resistinate i i di opinytic vegetation	(Explain)
Herb Stratum (Plot size:				
1. Clenthing of nifelia	20 ./	FACH	¹ Indicators of hydric soil and wetland hydr be present, unless disturbed or problemat	ology must
2. Viccioum stammium	10		The state of the s	ic.
		FACU	Definitions of Four Vegetation Strata:	
3			Tree - Woody plants, excluding vines, 3 in	2 (7 6 am) ar
4			more in diameter at breast height (DBH), r	egardless of
5			height.	-3
6			0	
7.			Sapling/Shrub – Woody plants, excluding than 3 in. DBH and greater than 3.28 ft (1	vines, less
7		-2	than 3 m. 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			147	
11			Woody vine - All woody vines greater that height.	n 3.28 ft in
12		-	neight.	
	.71			
15	<u>SO</u> = Total C	1		
50% of total cover: 1>	_ 20% of total cove	er:(
Woody Vine Stratum (Plot size:)				
1				
2				
2				
3				1
4				
5			Unidanahuda	
	= Total Co	over	Hydrophytic Vegetation	
50% of total cover:		20050	Present? Yes No	
		ir		
Remarks: (If observed, list morphological adaptations below).			
				1
				-
	T			

 Daint		

Profile Description: (Describe to the depth needed to doc	ument the ind	licator or	confirm	the absence of	indicators.)
Depth Matrix Rec	dox Features				
Color (moist) % Color (moist) O-Z IOFR 4/2	%	Type ¹	Loc ²		Remarks
00 10744/2				<u>SL</u> _	
4.57 1.572/3				5L	
3-191 2.5 76/3				SL	
				_	· · · · · · · · · · · · · · · · · · ·
17					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, M Hydric Soil Indicators: (Applicable to all LRRs, unless other	MS=Masked S	and Grain	is.		L=Pore Lining, M=Matrix.
	erwise noted. Below Surface		B C T III		r Problematic Hydric Soils ³ :
	Surface (S9) (L	RRS T	K S, I, U)		ck (A9) (LRR O) ck (A10) (LRR S)
☐ Black Histic (A3) ☐ Loamy Muc	ky Mineral (F1) (LRR C	0)		Vertic (F18) (outside MLRA 150A,B)
☐ Hydrogen Sulfide (A4) ☐ Loamy Gley	yed Matrix (F2)				Floodplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5) Depleted M					us Bright Loamy Soils (F20)
	Surface (F6) ark Surface (F			(MLRA	
	ressions (F8)	7)			nt Material (TF2) llow Dark Surface (TF12)
1 cm Muck (A9) (LRR P, T)					plain in Remarks)
Depleted Below Dark Surface (A11) Depleted O	chric (F11) (M	LRA 151)			pram in resinance)
	nese Masses			·	ors of hydrophytic vegetation and
	face (F13) (LR)		d hydrology must be present,
	c (F17) (MLRA ertic (F18) (ML		150R)	unless	disturbed or problematic.
	loodplain Soils			A)	
Stripped Matrix (S6)				149A, 153C, 15	53D)
Dark Surface (S7) (LRR P, S, T, U)					
Restrictive Layer (if observed):					
Type:					V
Depth (inches):				Hydric Soil Pre	esent? Yes No X
	1			L	
Do hydric Soil indica.	6/3 gi	re f	resc	nt,	
100 11/011		,			
			200		

whlh020_u

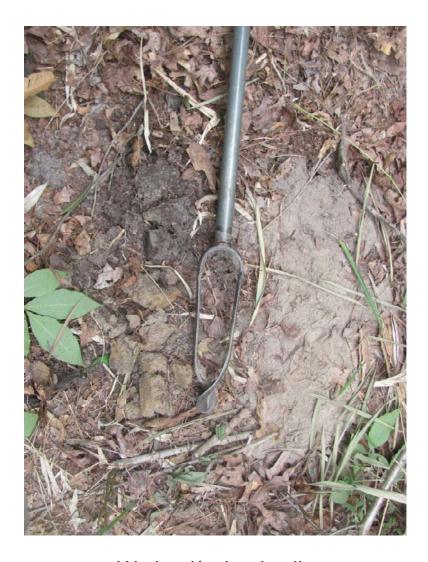


Upland data point whlh020_u facing east



Upland data point whlh020_u facing north

whlh020 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: 1-29-14 Project/Site: _ City/County: _ Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): DECSSION Local relief (concave, convex, none): LONG WHY 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) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) (LRR U) High Water Table (A2) 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: gorólogy present

WHLH024F Sampling Point: _____ W

Tron Stratum (Diet sing)	Absolute		Indicator	Dominance Test worksheet:
1. Proves fragala	30	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidamour styracitud	30	/	FAC	
3. Her ruprum	30	\sim	FAC	Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6	4			Prevalence Index worksheet:
7				The Court of the State of the Court of the State of the S
8	CVO			Total % Cover of: Multiply by:
110	40	= Total Co	ver /~	OBL species x 1 =
50% of total cover:	20% of	total cover	: 18	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	~			FAC species x 3 =
1. 10 Ken syngatica	2		FAC	FACU species x 4 =
2. Ker rubnum	10	_0,	FAC	UPL species x 5 =
3. Clethracelnitelia	10	_0/	FACE	r-Column Totals: (A) (B)
4. Liquidambor styracitus			FAC	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
6			-	1 - Rapid Test for Hydrophytic Vegetation
7			-	2 - Dominance Test is >50%
8	70			3 - Prevalence Index is ≤3.01
77 (22	= Total Co	ver Q	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 17.6	20% of	total cover	:	
1. Chesmanthym loxum	10		FACH	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Woodenardia Virginica	_5		OBL	Definitions of Four Vegetation Strata:
3				
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All berbassaus (non woody) plants regardless
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10		2127		
11				Woody vine – All woody vines greater than 3.28 ft in height.
12	S			Tolgin.
	15	= Total Cov	/er	- Commence - Commence - A
50% of total cover: 7.5	20% of	total cover	. 3	
Woody Vine Stratum (Plot size:		10101 00101		
1. Smulox opposition	(0)		FAC	
2 Dites copenditole	10	1/	1=41	
3. Berchania Sciendons	(3)	0	FIAC	
4. Lancera cononica	10	-	FA	
5 Rlain MARIENAS	119		FIR	
o. rotes medicards	7	Tatal Car	-076	Hydrophytic Vegetation
50% of total cover: 25	- DOC - C	= Total Cov		Present? Yes No
Remarks: (If observed, list morphological adaptations below		total cover		
nomana. (ii observed, list morphological adaptations belo	w).			

Profile Descr	ription: (Describe to the dep	th needed to docun	ent the i	ndicator	or confirm	the absence of indicators.)	
Depth	Matrix	Redox	(Feature:				
(inches)	Color (moist) %	Color (moist)	%	Type ¹	_Loc ² _	Texture Remarks	
/	104R 3/1					Showly LOAM	
6-10	10 YR 4/1					SANDY JOHN	
10-16	104R5/2	LOYR4/6	75	_	m	SCL	
	,				(2) - 11 - 210		
		P. D. P. LEWIS CO.		-			
							
1							
Hydric Soll In	ncentration, D=Depletion, RM adicators: (Applicable to all	Reduced Matrix, MS	=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.	1
Histosol (DD 0 T 1	Indicators for Problematic Hydric Soils	s':
	pedon (A2)	Polyvalue Bel Thin Dark Su				J) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S)	
Black His		Loamy Mucky				Reduced Vertic (F18) (outside MLR	A 150A R)
	Sulfide (A4)	Loamy Gleye			-,	Piedmont Floodplain Soils (F19) (LR	
	Layers (A5)	Depleted Mat		Colombia		Anomalous Bright Loamy Soils (F20)	
	Bodies (A6) (LRR P, T, U)	Redox Dark S	and the same of th			(MLRA 153B)	
	cky Mineral (A7) (LRR P, T, U)					Red Parent Material (TF2)	
	sence (A8) (LRR U) k (A9) (LRR P, T)	Redox Depre		3)		Very Shallow Dark Surface (TF12)	
Depleted	Below Dark Surface (A11)	☐ Marl (F10) (LI		(MI RA 1	(1)	Under (Explain in Remarks)	
	k Surface (A12)	Iron-Mangane				T) ³ Indicators of hydrophytic vegetation	n and
	airie Redox (A16) (MLRA 150)	Umbric Surface	ce (F13) (LRR P, T		wetland hydrology must be present	
	ucky Mineral (S1) (LRR O, S)	Delta Ochric				unless disturbed or problematic.	
Sandy Gl	eyed Matrix (S4)	Reduced Ver					
	Matrix (S6)	Piedmont Flor				9A) A 149A, 153C, 153D)	
	ace (S7) (LRR P, S, T, U)	Anomalous B	ngin Loai	ily Solls (I	-20) (WILK	A 149A, 163C, 163D)	
	ayer (if observed):		1.000				
Type:						\2	
Depth (inch	nes):					Hydric Soil Present? Yes N	0
Remarks:							
	4						
	Hydriz	. 0			0		
	1949 Cor	/	_		Ω		
	0	200	12	000	1 as		
			1		0-4	,	
					40		

Whlh0024f_w



Wetland data point whlh024f_w facing east



Wetland data point whlh024f_w facing south

WEILAND DETERMINATION DATA FORM - Atlantic and Guir Coastal Plain Region
Project/Site: SERP City/County: In 11200 Sampling Date: 7-29-1
Applicant/Owner: State: N Sampling Point: WHLHO.
Investigator(s): Section, Township, Range:
Landform (hillslope, terrace, etc.): Slope (%): O Subregion (LRR or MLRA): Lat: 36 // 33,4/77 Long: 77 45 47,016 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?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? No X within a Wetland? No X within a Wetland? No X No X within a Wetland? No X No
HYDROLOGY
Wotland Hydrology Indicators
Drimons Indicators (winish and for the control of t
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)
☐ 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):
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:
No hydrologie prosent

Stratum (Plot size:		Dominant		Dominance Test worksheet:
Stratum (Plot size:)	40 Cover	Species?	~	Number of Dominant Species
And tecau		\sim	FAC	That Are OBL, FACW, or FAC:(A)
Her orbring	10		FAC	Total Number of Dominant
illodendran teligifera	_20_	\sim	FACU	Species Across All Strata:(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	7.			OBL species x 1 =
And the second of	30-10	= Total Cov	er 1//	FACW species x 2 =
50% of total cover:	20% of	total cover:	14_	
ling/Shrub Stratum (Plot size:)			7	FAC species x 3 =
iquidantiar chyralthia	_10_	\sim	FAC	FACU species x 4 =
alix nigra			_OBL	UPL species x 5 =
Griodendron teligiter	10		FIRCU	Column Totals: (A) (B)
frances secreting	_5		FACU	Provalence Index = P/A =
Acer rebram	*		FAC	Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	35			3 - Prevalence Index is ≤3.01
50% of total cover:		= Total Cov	er 7	Problematic Hydrophytic Vegetation ¹ (Explain)
	1.3 20% of	total cover:		
rb Stratum (Plot size:)	a 5	. /		¹ Indicators of hydric soil and wetland hydrology must
Knehmana gylindrica			FACW	be present, unless disturbed or problematic.
Atherium felix- timina			FACW	Definitions of Four Vegetation Strata:
7				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
				height.
Table Washington				Sanling/Shrub Mandunlanta auglidian dan lan
				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
Manager Control of the Control of th				of size, and woody plants less than 3.28 ft tall.
				Woody vine - All woody vines greater than 3.28 ft in
				height.
		= Total Cov		
50% of total cover:	20% of	total cover:	1	
ody Vine Stratum (Plot size:)	1000	/		
Has potendifolica	_ 5	V,	FAC	
Smiles rotandifelia	10	U,	FAC	
arthenocisus alinquetla	- <	1	FAC	
Cit				
				Annual Control of the
	70	T		Hydrophytic
		= Total Cove	K1 1	Vegetation Present? Yes No
2227 22 22 27		With the second		
50% of total cover: \(\frac{1}{6} \)		total cover:		100 100

Sampling Point: WHLH 024

Profile Description: (Describe to the depth	needed to docu	ıment the i	ndicator	or confirm	the absence	of indicators.)
Depth Matrix	Red	ox Feature:	S			<i>(2)</i>
	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-7 10 yr 3/2						
7-13 104R 4/2						
13-18 104R5/3						1
						<u> </u>
¹Type: C=Concentration, D=Depletion, RM=Re	educed Matrix, N	1S=Masked	Sand Gra	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LR						for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)	Polyvalue B	elow Surfac	ce (S8) (L	RR S, T, U		fuck (A9) (LRR O)
Black Histic (A3)	Thin Dark S	urface (S9)	(LRR S,	T, U)		luck (A10) (LRR S)
Hydrogen Sulfide (A4)	Loamy Muc Loamy Gley	ky ivilnerai (led Matrix ()	F1) (LKK	0)		ed Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5)	Depleted Ma		-)		Anoma	ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark		6)			RA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Da					arent Material (TF2)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depr	Frankling State Comment	3)			hallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Marl (F10) (Depleted Oc		MI DA 46	-41	U Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Mangar				r) ³ Indic	ators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surf	ace (F13) (LRR P. T.	U)		and hydrology must be present.
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)			ess disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Ve					The second of th
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont FI					
Dark Surface (S7) (LRR P, S, T, U)	Anomalous	Bright Loan	ny Soils (F	20) (MLRA	149A, 153C,	153D)
Restrictive Layer (if observed):				-		
Туре:						
Depth (inches):					Hydric Soil	Present? Yes No
Remarks:					- Try and don't	Noz
	1 3	L	0		, 0	present
	NO	ny	201	2 5	ods	Dissa A
		J		- 0		Pusco
						•

Whlh024_u



Upland data point whlh024_u facing east



Upland data point whlh024_u facing north

whlh024 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FOR	RM – Atlantic and Gulf Coastal Plain Region
SCRP	County: 147/1472 Sampling Date:
Applicant/Owner: Dominum	State: WC-Sampling Point WHLI-TO
Investigator(s): Section Secti	ion, Township, Range:
Landform (hillslope, terrace, etc.): Bottom Ruc Loca	I relief (concave, convex, none): Lonciave Slope (%):
Subregion (LRR or MLRA): Lat: 36°11' 1	16.735" Long: 77° 45′ 56.38(" Datum:
Soil Map Unit Name: Kouns	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS - Attach site map showing san	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
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) (LRF	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (B15) (LRF	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	n (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	
Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Other (Explain in Remark	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3) SFAC-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): Depth (inches): Depth (inches):	X
(Includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
, i	0 -
Hydrology	Dresent
3 0)	1

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

WALKOZ.	r D
MEMOZ	74
Sampling Point:	- W

	Absolute Dominant, Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Na l'
1. Hor gebrun	40 U FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Ligen Ambor Strongistia	30 V FAC	
3. Litioden Even talipitora	20 V FACI	Total Number of Dominant
4.	T FRC	Species Across All Strata: (B)
5		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: LIT	20% of total cover. 18	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 % of total cover t o	FAC species x 3 =
	25 1/1500	FACU species x 4 =
1. Liquidamber Styneithia	S I FA	
2. Aler rubnum	15 V FAL	UPL species x 5 =
3.		Column Totals: (A) (B)
4		Provolence 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 Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 45	20% of total cover:	
Herb Stratum (Plot size:	~~ /	¹ Indicators of hydric soil and wetland hydrology must
1. Boehmeria cyludrica	13 FACU	be present, unless disturbed or problematic.
2. Velygonym higher Diper	Les 20 VI FAGE	Definitions of Four Vegetation Strata:
3. Athiaim telix-fining	20 V FACIA	
4. Rubus Arquistus	TS V FACI	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.		more in diameter at breast height (DBH), regardless of height.
		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 weeks in a control to a control
11.		Woody vine – All woody vines greater than 3.28 ft in height.
12		
	TD = Total Cover	
50% of total cover: 35	20% of total cover: 1.4	
Woody Vine Stratum (Plot size:	_ 20 % or total cover	
1. Smilas million	10 V FIAC	
2 State of the sta	10 / 606	
2 Biro romanario	- JA	
3. Verus radicans	SO J FAC	
4. Conicera japonica	10 V MAL	
5		Hydrophytic
0 -	= Total Cover	Vegetation
50% of total cover:	20% of total cover:	Present? Yes No No
Remarks: (If observed, list morphological adaptations below		
	NAME OF THE PARTY	1

Profile Description: (Describe to the depth needed to document the indicator or confirm	m the absence of indicators.)
Depth Matrix Redox Features	and all of manual or manua
(inches) Color (moist) % Color (moist) % Type Loc ²	Texture Remarks
0-8 164R3/2	Lown
8-16 1074 4/2 1048 4/6 75 C m	lown
6-20904R4/1 104R5/675 C m	SCC
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
	12
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 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)	Reduced Vertic (F18) (outside MLRA 150A,B)
Stratified Layers (A5) Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (LRR P, S, T) 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) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	Under (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P,	T) 31-4:
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	 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, 150B)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	9A)
☐ Stripped Matrix (S6) ☐ Anomalous Bright Loamy Soils (F20) (MLR Dark Surface (S7) (LRR P, S, T, U)	A 149A, 153C, 153D)
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Hydric Soil Present? Yes No
Lydriz soil presen	FA.
19401 2 Sou Preser	
	3

Whlh025f_w



Wetland data point whlh025f_w facing east



Wetland data point whlh025f_w facing south

WHLHOZS WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: City/County: Applicant/Owner: Sampling Point: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): 65.670" Long: 77° 45' 56.685 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? No Is the Sampled Area Hydric Soil Present? No 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 Aguitard (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? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

No highrology preser

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. Lireodondron teel, potora	40		FACU	That Are OBL, FACW, or FAC: (A)
2. Pinus tavica	20	V.	FAC	
3. Liquidambrar styrasifluce	30	V	FAC	Total Number of Dominant
4. 0			1710	Species Across All Strata: (B)
5		7		Percent of Dominant Species / L
All the second s				That Are OBL, FACW, or FAC: (A/B)
6				The second secon
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
727	90	= Total Cov	/er .	OBL species x 1 =
50% of total cover: 45		total cover	16/	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 /8 01	total cover		FAC species x 3 =
1. Lipustain singuse	76		FAC	FACU species x 4 =
1 19 Sharestreense	15		IMC	
2. Litexandron tulipitera	15		FACU	
3. Cignicioners styractica	10	$\overline{}$	FAC	Column Totals: (A) (B)
4				Provolence Index - D/A
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8	~~			☐ 3 - Prevalence Index is ≤3.01
^ -		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 25	20% of	total cover	10	- resistant rijuroprijus vegetation (Explain)
Herb Stratum (Plot size:)	2.2	/	A	Madical and the second
1. Phytolacia amoricana	10	L	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Asplenium platy nourons	5		FACU	그 그 그 그 하는 것 그 그는 그 그 그 그는 그 그는 그 그 그 그 그 그 그 그 그
3. Lonicara japohica	<u> </u>		FAC	Definitions of Four Vegetation Strata:
			IAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Matalea	10		UPL	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7		Day Collins Hered		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Service of the servic
				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine - All woody vines greater than 3.28 ft in
11.				height.
12				
¥-1	30=	Total Cov	er .	
50% of total cover:	20% of	total cover:	6	37 A 1 3
Woody Vine Stratum (Plot size:		/	*	
1. Smilery rotundation	20		FAC	
2. Lonicera Canonica	10	1	500	
181 Santa	10	1	THE	
3. Thus Pacificans	10.		FIX	
4				
5				Hydrophytic
	40=	Total Cov	er .	Vegetation
50% of total cover: ZC		total cover:	×	Present? Yes No
Remarks: (If observed, list morphological adaptations below		total cover.		
remarks. (In observed, list morphological adaptations below	V).			
- The second of				

SOIL

WHLHO'ZS	-()
Sampling Point:	
e of indicators.)	

A STATE OF THE PARTY OF THE PAR		depth needed to document the indicator or confirm	i the absence of in	licators.)
Depth	Matrix	Redox Features		
(inches)		Color (moist) % Type ¹ Loc ²	Texture	Remarks
0	104R3/2			
4-10	10449417			
172 112	10/1/2			
10-16	104R5/3_			
1T C- C				
Type: C=Co	oncentration, D=Depletion,	RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=F	ore Lining, M=Matrix.
		all LRRs, unless otherwise noted.)		roblematic Hydric Soils ³ :
Histosol		Polyvalue Below Surface (S8) (LRR S, T, U	 1) 1 cm Muck (A9) (LRR O)
promote the second	ipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U)		A10) (LRR S)
Black Hi		Loamy Mucky Mineral (F1) (LRR O)		tic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Flo	oodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	Depleted Matrix (F3)		Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 15	
5 cm Mu	cky Mineral (A7) (LRR P, 1	Γ, U) Depleted Dark Surface (F7)		Material (TF2)
	esence (A8) (LRR U)	Redox Depressions (F8)		Dark Surface (TF12)
	ck (A9) (LRR P, T)	Marl (F10) (LRR U)		in in Remarks)
	Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)		· · · · · · · · · · · · · · · · · · ·
	rk Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators	of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (MLRA	[전 마시 HA]		ydrology must be present,
Sandy M	ucky Mineral (S1) (LRR O,			turbed or problematic.
Sandy G	leyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)		**************************************
	edox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149	9A)	
	Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLRA	A 149A, 153C, 153D)
I I Dark Sur				
	face (S7) (LRR P, S, T, U)			
	ayer (if observed):			
				2/:
Restrictive L	ayer (if observed):		Hydric Soil Prese	nt? Voe No
Restrictive L Type: Depth (inc			Hydric Soil Prese	nt? Yes No
Restrictive L	ayer (if observed):		Hydric Soil Prese	nt? Yes No
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):	a hydric soil		nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo_X_
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo_X_
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo_X_
Restrictive L Type: Depth (inc	ayer (if observed): hes):			nt? YesNo_X_

Whlh025_u



Upland data point whlh025_u facing east



Upland data point whlh025_u facing north

whlh025 soils



Wetland/upland soils

WEILAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SERP City/County: Link Link Sampling Date: 7-29-14
Applicant/Owner: Dominion State: NC Sampling Point: W/+LHO.
Investigator(s): Section, Township, Range:
Landform (hillslope, terrace, etc.): Bottom knd Local relief (concave, convex, none): Concave (%):
Subregion (LRR or MLRA): Lat: 36° /0 '56, 485 Long: 77° 46° 14.050 Deliver
Soil Map Unit Name: Rouns NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: P(Anlee) pine plantation
HYDROLOGY
Wotland Hydrology Indicators
Primary Indicators (minimum of two required)
Surface Water (A1) Aquatic Fauna (B13) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) 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)
Field Observations: Sphagnum moss (D8) (LRR T, U)
Surface Water 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): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Hydrology presont

WHLHOZGF-W

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

vegetation (Four Strata) – Use scientific nai	mes of pl	ants.	Sampling Point:
T 04- 4- 454 - 4	Absolute	Dominant, Indicator	Dominance Test worksheet:
Tree Stretum (Plot size:)		Species? Status	Number of Dominant Species
1. Tirus tadde	40	_ J FAK	That Are OBL, FACW, or FAC: (A)
2. Liquidombion Styrocolus	20	1/ FAC	12
3. Her rugrum	20	FAC	Total Number of Dominant
4. Liviadendoon tulipitera	10	FACE	Species Across All Strata: (B)
The state of the s	10	- FACO	Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
6			
1 7			Prevalence Index worksheet:
8			Total % Cover of: Multiply by:
	95	Total Cause	OBL species x 1 =
50% of total cover: 45	-	Total Cover	FACW species x 2 =
Sonling/Chrish Charles (DL)	20% of	total cover:	
Sapling/Shrub Stratum (Plot size: 1. Ligrin Sambara Styraciflica	~20	1	FAC species x 3 =
1. Liquidamons stymathia	10	J FAC	FACU species x 4 =
2. Acer rubyung	20	V FAC	UPL species x 5 =
3. Clother almifolia	10	V FAKW	Column Totals: (A) (B)
4		1720	- 774 7724 100 //
			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
	<i>-50</i> =	Total Cover	1
50% of total cover: 25	20% of 1	total cover: (O	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size:)		/	
1. Rhies made cares	70	U FIRE	Indicators of hydric soil and wetland hydrology must
	11.	FAC	be present, unless disturbed or problematic.
2. Hrundinana Gigantea	10.	I PACW	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			
7			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	-		than 5 m. Dorrand greater than 5.26 it (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			
	31) =	Total Cover	N 10 TO 10 T
50% of total cover: 15		,	
Woody Vine Stratum (Plot size:)	_ 20% 01 (otal cover:(o	
1 Plant (Flot size:	75	1/ Eno	
in the lact cans.	40-	0/1040	
2. Smilor votunditolia	15	FAC	
3			4
4			
5			· Mariana and America
	40-	Total Cours	Hydrophytic
50% of total assess 70°		Total Cover 8	Vegetation Present? Yes No
50% of total cover:	_ 20% of to	otal cover:	100
Remarks: (If observed, list morphological adaptations below).		

SOIL

WHLHOZEF-W

SOIL		Sampling Point:
Profile Description: (Describe to the depti	n needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-8 1041 511		Smuly lown
8-10 10 YR4/1		Smany lown
10-16+104R5/2 1	04R4/6+5/8 75 C M	SCI
	70 11	200
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	RRs, 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) 5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6)	(MLRA 153B)
Muck Presence (A8) (LRR U)	Depleted Dark Surface (F7) Redox Depressions (F8)	Red Parent Material (TF2)
1 cm Muck (A9) (LRR P, T)	Mari (F10) (LRR U)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	Under (Explain in Remarks)
Thick 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)	and the state of t
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA 149)	A)
Dark Surface (S7) (LRR P, S, T, U)	Anomalous Bright Loamy Soils (F20) (MLRA	. 149A, 153C, 153D)
Restrictive Layer (if observed):		
Type:		
Depth (inches):	_	×
Remarks:		Hydric Soil Present? Yes No No
Nemarks.		
		^
	11 0	
	Hydriz so	Dagge, 47
	ictor ic se	a present
	\circ	()

Whlh026f_w



Wetland data point whlh026f_w facing east



Wetland data point whlh026f_w facing south

WEITERNOODE TERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region
Project/Site: SERP City/County: Sampling Date: 7-29-14
Applicant/Owner: Dominion State: N Sampling Point 1141626
Investigator(s): DDWEST Section, Township, Range:
Landform (hillslope, terrace, etc.): Hill Llope Local relief (concave, convex, none): CENVEX Slope (%): 1% Subregion (LRR or MLRA): Lat: 36 10 55 908 Long: 77 46 14, 440 Datum: WESSY
Soil Map Unit Name: NWI classification: NWI classification: 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 Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
C with the control and the con
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No Within a Wetland? Yes No Within a Wetland? Yes No List the Sampled Area within a Wetland?
Remarks:
NOT all Three parameters present
present
HYPPOLOGY
HYDROLOGY Westernel Market State Control of the Co
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A4)
Sparsely vegetated Collicave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) 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) Cravfish 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)
D Water Other At 100 (DO)
☐ Vvater-Stained Leaves (B9) ☐ Sphagnum moss (D8) (LRR T, U)
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:
3 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
Remarks:
Wetland hydrology indicators not present

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

WHCHOC6 - 4 Sampling Point:

Tree Stratum (Plot size: 30	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species
1. fines knda	40 FAC	That Are OBL, FACW, or FAC: (A)
2. Liquidamba sty'sciting	10 FAC	
3. Iter publish		Total Number of Dominant
4	7.	Species Across All Strata: (B)
		Percent of Dominant Species 7
5		That Are OBL, FACW, or FAC: (A/B)
6		
7		Prevalence Index worksheet:
8	AND THE STANDARD SERVICES IN THE SECOND	Total % Cover of: Multiply by:
	60 = Total Cover	OBL species x 1 =
50% of total annua 7 6		FACW species x 2 =
	20% of total cover:	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)		
1. Liquidem bar styrac, the	10 Y FAC	FACU species x 4 =
2. Acer restran	10 V, FAC	UPL species x 5 =
3. Querus alba	5 FACU	Column Totals: (A) (B)
4		- 100 - 100
5		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
	25 = Total Cover	Charles and the contract of th
50% of total cover: 12c	Caner of the table	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size: 30)	20% of total cover:	
	/ / ===	¹ Indicators of hydric soil and wetland hydrology must
1. Cleatura applelia	S Y FACW	be present, unless disturbed or problematic.
2 Haccinin stammun	5 V FACU	Definitions of Four Vegetation Strata:
3. Osprenda Cipinamen	55 V FACW	
4 Chesharthyan sesslithorium	ES J FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of height.
		, noight
		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.	<u> </u>	
/0	20 = Total Cover	
50% of total cover: (0	20% of total cover:	
Woody Vine Stratum, (Plot size:)		
1. Charmonthing sesstithorium	25	
2		
3 1/4		
S. 704		
4		
5		Hydrophytic
	= Total Cover	Vegetation
50% of total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below		
remarks. (If observed, list morphological adaptations below	v).	

	1. 111. 11.027
SOIL	WHLHOZE.
Profile Description: (Describe to the depth needed to document the indicator or confirm	Sampling Point:
Da-II.	n the absence of indicators.)
Color (moist) % Color (moist) % Type¹ Loc²	Texture Remarks
0.5 10/R41/2	Sundylown
5-12 164R 5/3	soul town
12-18+2,54 5/3	SVINLY TOMM
	<u> </u>
	A CONTRACTOR OF THE CONTRACTOR
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	² Location: PL=Pore Lining, M=Matrix.
	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U)	1 cm Muck (A9) (LRR O) 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) 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 (F7)	(MLRA 153B) 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. P.	- 3
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	T) ³ 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, 150B)	1/4
Sandy Redox (S5) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149) Anomalous Bright Loamy Soils (F20) (MLRA	
☐ Stripped Matrix (S6) ☐ Anomalous Bright Loamy Soils (F20) (MLR) ☐ Dark Surface (S7) (LRR P, S, T, U)	A 149A, 153C, 153D)
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No X
Heading Soil indicators are no	f con L
Hydric Soil indicaters are no	present
1	V
	4
	1

Whlh026_u



Upland data point whlh026_u facing east



Upland data point whlh026_u facing north

Whlh026 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Sife: ACP City/C	County: Halifax Sampling Date: 7/20/15
Applicant/Owner: Dominion	State: NE Sampling Point: Whlo OOI f-W
Investigator(s): FST-J.Harbour, KMUIPhrey Section	on, Township, Range:
Landform (hillslope, terrace, etc.): APPRESSION Local	relief (concave, convex, none); (CACAVA Stone (%): 0-2
Subregion (LRR or MLRA): 1 Q R P	80 1000:-77.77298 Dolum 10165 81
Soil Map Unit Name: Chastain and Biob Soils, Free	mently flooded have to the OF ()
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? YesNo	In the Country of the
Hydric Soil Present? YesNo	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
ĩ	A
	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LR	
Saturation (A3) Hydrogen Sulfide Odor	A DESTRUCTION OF THE SECOND CONTRACTOR OF THE
☐ Water Marks (B1) ☐ Oxidized Rhizospheres	
Sediment Deposits (B2) Presence of Reduced In	on (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	= /:
☐ Iron Deposits (B5) ☐ Other (Explain in Remai	
Inundation Visible on Aerial Imagery (87)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches):	NA
Water Table Present? Yes No Depth (inches):	20
Water Table Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
Remarks.	a)
	Tr. Control of the Co
200	

206LY2061		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 308+X308+) 1. Magazia Virginiano	% Cover	Species?	200000	Number of Dominant Species
2. Ulmus americana	3		FACW	That Are OBL, FACW, or FAC: (A)
		$\frac{\chi}{\chi}$	FAC	Total Number of Dominant
3. Nyssa Sulvatica		7	FAC	Species Across All Strata: (B)
4. Betala nigra		-7 -	FACW	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8		·		Total % Cover of: Multiply by:
	25	= Total Co	ver	OBL species x 1 =
50% of total cover: 12,				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 2084 X 3064)		10101 0010	•	FAC species x 3 =
1. Liquidacerar Sylacifica	15	Y	TAC	FACU species x 4 =
2. ACEV YULYUM	10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FAC	UPL species x 5 =
	- - \frac{1}{2} - 1	~	FAC	Column Totals: (A) (B)
		17		(r)(b)
4. Cletura ainifolia		_ N	FACW	Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6		-		1 Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0¹
	32	= Total Co	ver ,	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% n	f total cove		Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30/6+X308-4)		1 (0(0) 0010		1
1. Avundinoria gigontea	10	\/	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Woodward a areolata	5	-	OBL	
		- 41	OBL	Definitions of Four Vegetation Strata:
3. Wiodwardia Virginica		_/\		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub - Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				W
11		4, 2)		Woody vine – All woody vines greater than 3.28 ft in height.
12.		-375		, regin
	17	= Total Co	over	
50% of total cover:	5 200/			
Woody Vine Stratum (Plot size: 30++ X30++)	<u>/ -/</u> 20% (or total cove	#. <u> 1</u>	
1. Smilax Votanisolia	~	V	EAS	
	>	- —	- 1770	
2. Vitis rotundisoria	>	- ——/	FAC	· •
3				
4				
5				Hydrophytic
	10	_ = Total C	over	Vegetation
50% of total cover:	5 20%	of total cov	er; 2	Present? Yes No
Remarks: (If observed, list morphological adaptations be	elow).			
a wa ass secondarias property description in	(1740) (1747) (1767)			

Profile Desc	cription: (Describe t	to the depth	needed to docum	ent the i	ndicator	or confirm	the absence of	indicators.)
Depth ·	Matrix		Redox	Feature				
(inches)	Color (moist)	79	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remarks
0-10	104R4/1		1042414		<u> </u>	PL.		
10-20	105R411	47	106184/6	3	<u></u>	PL	<u>5</u> L	
	. odste - 10 m.		4 .					
								
1000-100	• • • • • • • • • • • • • • • • • • • •							
		· · · · · · · · · · · · · · · · · · · 						
			w sometimes and					
¹Type: C=C	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² I ocation: PI	L=Pore Lining, M=Matrix,
	Indicators: (Application					A11101		r Problematic Hydric Soils ³ :
☐ Histosol			Polyvalue Bel			.RR S. T. U	F1	ck (A9) (LRR O)
· =	pipedon (A2)		Thin Dark Sur					ck (A10) (LRR S)
Black Hi	istic (A3)		Loamy Mucky					Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat		NEW WILLS			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark S	•				153B)
Musk D	ucky Mineral (A7) (LF resence (A8) (LRR U	KK P, T, U)	Depleted Dar					ent Material (TF2)
	resence (A8) (LRR U úck (A9) (LRR P, T)	7	Redox Depre Marl (F10) (L		-0)			allow Dark Surface (TF12) xplain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Och	23°0	(MIRA 1	51\	Outer (Ex	xpiairi iri Remarks)
	ark Surface (A12)	- ()	Iron-Mangane				T) ³ Indicat	ors of hydrophytic vegetation and
	rairie Redox (A16) (I	MLRA 150A						nd hydrology must be present,
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (M	LRA 151)			s disturbed or problematic.
p	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo					
Printer.	d Matrix (S6)	N T 11)	Anomalous B	right Loa	imy Soils	(F20) (MLR.	A 149A, 153C, 1	[53D]
	urface (S7) (LRR P, S Layer (if observed):							
E compa							1	
Type:	51.5 0030 000 000 000 000 000 000 000 000 0							
	nches):		<u></u>				Hydric Soil P	resent? Yes No No
Remarks:								
								**
140								
1								
						(4)		
							•	
							191	6
			89					
i i								
Î								

Environmental Field Surveys Wetland Photo Page



Wetland data point whlo001f_w facing west.



Wetland data point whlo001f_w facing southwest.

A Parent

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: ACP	City/County: Mali Fax Sampling Date: 7/20/15
Applicant/Owner: DOMINION	State: NC Sampling Point: Wh\000(-u)
Investigator(s): ESI-T. Harwur, K. Mulphies	
Landform (hillstone terrace etc.): £16+	Local relief (concave, convex, none): FIGH Slope (%): 0-2 17989 Long: -77,77298 Datum: W658 FIGURATION FLOODED NWI classification: NA
Subregion (LRR or MLRA): LR RP Lat 36.	17989 1000:-77,77298 Patrim: W658
Soil Man Unit Name: Chastain and Right Soils.	requently Flooded Man along MA
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significant	·
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	
Surface Water (A1) Aquatic Fauna (E) Not Note: Table (A2)	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide	
	pheres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa	ce (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (Inch	AV (see
Water Table Present? Yes No Depth (inch	ies); 720
Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches Saturation Present?	nes): Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:
Remarks:	
	•
	•

	About	5	1 11 1 1	
Tree Stratum (Plot size: 30F+ X30F+)	Absolute	Dominant		Dominance Test worksheet:
Tree Straium (Plot size: SO 17 (SO 1)	% Cover	Species	4.000	Number of Dominant Species
1. Pinus taedo	15	Y	FAC	That Are OBL, FACW, or FAC: (A)
2. Lividenaria tuipirera	10	Ź	FACU	
	5	-7		Total Number of Dominant
3. ACEV rubrum	~	N	FAC	Species Across All Strata: (B)
4. Liquidambar styracistua	5	N	FAC	
		0.1		Percent of Dominant Species 420
5. Betwee nigro		N_{\parallel}	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 43% (A/B)
6				
			L	Prevalence Index worksheet:
7		· 3		
8.			200	Total % Cover of: Multiply by:
	140	= Total Co	-	OBL species x 1 =
	70	= Total Co	ver <	
50% of total cover: 20	20% of	total cove	г. О	FACW species x 2 =
SVET ASTET		10101 0010		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 308+ X305+)	1.00	17	FAC	
1. Acer YUDIAM	10	У	PITC	FACU species x 4 =
2. Nussa solvation	5	V	FAC	UPL species x 5 =
				1
3. Quereus night	2	N	FAC	Column Totals: (A) (B)
4. Quellus alba	2	N	FACCA	
4. (SUICION) DRIVE		14	FILON	Prevalence index = B/A =
5				Hydrophytic Vegetation Indicators:
				The state of the s
6.				Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	010 900 9000 10		TO MELENINE ELECTRONIC	
Q		The second of the second	·	3 - Prevalence Index is ≤3.01
0	- 19	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	7.2.8	EL Constituto Flydrophytio Vegetation (Explain)
Zaci ka isa	20700	i total cove	1	
Herb Stratum (Plot size: 308+ X3084)				¹ Indicators of hydric soil and wetland hydrology must
1. AUDIC PYESEAL				be present, unless disturbed or problematic.
				5 661 NO 101 NO
2		-		Definitions of Four Vegetation Strata:
3				20 00 00 00 00 00 00 00 00 00 00 00 00 0
A A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
				25 268
6		- 11		Sapling/Shrub - Woody plants, excluding vines, less
7			P	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Market Control of the				An Understand 2004 A The Control of
8	-00	. —		Herb - All herbaceous (non-woody) plants, regardless
9.		91 W 800		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				
16.	-			
		_ = Total C	over	S_ S
50% of total cover:	20%	of total cov	er.	
		or total ook	UI	
Woody Vine Stratum (Plot size: 30 F+ X30 F+)		2 2	1 2	Ŷ
1. Vitis roturdisolia	<	У	FAC	
		- 1//	TAC	**
2. Smilax (Otundifolia	<u> </u>	/_	<u> </u>	<u> </u>
3		,		
1				
4				
5				In 1 1 11
V	10			- Hydrophytic
	10	_ = Total (Cover	Vegetation
. 50% of total cover:5	5 20%	of total co	ver: 2	Present? Yes No
The second secon	100 20 20			7 <u> </u>
Remarks: (If observed, list morphological adaptations be	elow).			
). = =				
0				
×.				
				Ÿ.
				*
				,

Profile Desc	ription: (Describe	to the den	th needed to docur	nent the	indicator	or confirm	the absonce of	Sampling Point:
Depth	Matrix	to the dep		x Feature		or commit	rue apselice 01	indicators.)
(inches)	Color (moist)	%	Color (moist)	%		_Loc ²	Texture	Remarks
0-4	WYR 3/1	w		• 0•	- 0		<u></u>	
4-12	104R4/2	100					_5L	
12-20	104RS/2	90	104RS/4	10	<u>_</u>	M	SL	
		2 409 #21-79	Janes Na Art		0000 8000			
				-				
				•				
		-			-1.2-		·-	
Type: C=C	oncentration, D=Dep	lation PM:	-Paducad Matrix, M	C-Monko	d Sand Or		21	BI''.
	ndicators: (Applic					ams.		L≂Pore Lining, M≃Matrix. r Problematic Hydric Soils³:
Histosol			☐ Polyvalue Be		45-61	RR S. T. U		ck (A9) (LRR O)
	pipedon (A2)		Thin Dark St					ck (A10) (LRR S)
	stic (A3)		Loamy Muck			(0)	Reduced	Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			t Floodplain Soils (F19) (LRR P, S, T)
	i Layers (A5) Bodies (A6) (LRR P	T 11)	Depleted Ma		E6)			us Bright Loamy Soils (F20)
	icky Mineral (A7) (Li						(MLRA	ent Material (TF2)
Muck Pr	esence (A8) (LRR U)	Redox Depre				☐ Very Sha	Illow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (I					kplain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Oc					
	ark Surface (A12) rairie Redox (A16) (I	WI RA 150	Iron-Mangar A) Umbric Surfa					ors of hydrophytic vegetation and nd hydrology must be present,
	lucky Mineral (S1) (Delta Ochric			, 0/		s disturbed or problematic.
	Bleyed Matrix (S4)	•	Reduced Ve			0A, 150B)		o distance of problematic.
	Redox (S5)		Piedmont FI					}
	Matrix (S6)	·	Anomalous I	Bright Loa	amy Soils	F20) (MLF	RA 149A, 153C, 1	53D)
	rface (S7) (LRR P, S Layer (if observed)					-	-	
Type:								
	ches):						Hydric Soil P	resent? YesNo
Remarks:						-	1	
								i i
<u> </u>								
			(2)					
	•							
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Environmental Field Surveys Wetland Photo Page



Upland data point whlo001_u facing southeast.



Upland data point whlo001_u facing north.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _____ Concave Slope (%): 10' 28,899 Long: 77 046 31.284 "Datum: Subregion (LRR or MLRA): O - Z NWI classification: Soil Map Unit Name: (>>> Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ No _____ (If no, explain in Remarks.) Are 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? Yes within a Wetland? Wetland Hydrology Present? Remarks: Plaented pine plantation. **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 Aguitard (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:

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

	030
WHL	14021 W
Sampling Point:	1-00

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3. 1974				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species x 1 =
50% of total cover:	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	1700	/		FAC species x 3 =
1. Pens tack	60		FAC	FACU species x 4 =
2. Liquidammer styracitua	15		FAC	UPL species x 5 =
3. Querus laurifotico	_5_		FACW	Column Totals: (A) (B)
4. SALTX NIGHTCE	_5_		DBL	Prevalence Index = B/A =
5. TAXIMS DENUS INANICA	_5_		FIACW	Hydrophytic Vegetation Indicators:
6. Acer rubrum	5		FAC	7 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 4/7	5 20% of	total cover	19	Troblematic rigitophytic vegetation (Explain)
Herb Stratum (Plot size:)		/		¹ Indicators of hydric soil and wetland hydrology must
1. Rubus argustus	40	/	FALU	be present, unless disturbed or problematic.
2. Chasman hum byum	10		FACW	Definitions of Four Vegetation Strata:
3. Typha latitoha		A-11	OBL	
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Capling/Shareh Mandy plants avaluating vines less
7.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				THE CONTRACT SECTION OF SECTIONS AND CONTRACT SECTION OF SECTION O
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	55	= Total Cov		
50% of total cover: 27.			1 (
Woody Vine Stratum (Plot size:)	20 /0 01	total cover		
1 Rhus pp dicas	20		FAC	
2 Smiles introduction	25	\rightarrow	FAC	
3			110	
A				
5				1 V
J	715	- Total Cau		Hydrophytic Vegetation
50% of total cover: 22	_	= Total Cov	4	Present? Yes No
Remarks: (If observed, list morphological adaptations belo		total cover:		
nemarks. (ii observed, list morphological adaptations belo	w).			

Profile Desc	cription: (Describe	to the depth n	eeded to docur	ment the i	ndicator	or confirm	the absence	of indicat	ors.)	-
Depth Matrix Redox Features										
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture		Remarks	
- 1	104R4/2		/				Strale	loam		
8-16+	104R5/Z	<i>[C</i>	74R 4/6	72		m	Simon	Loun		
	*						,	14		
								Control of the contro		
				. ——				-		
		25								
	-									
Hydric Soil	oncentration, D=Dep	letion, RM=Red	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Location:	PL=Pore I	Lining, M=Matr	ix.
☐ Histosol	Indicators: (Applic	able to all LRF							matic Hydric	Soils':
	pipedon (A2)	+	Polyvalue Be Thin Dark Su					Muck (A9) (
	stic (A3)	1	Loamy Muck					Muck (A10)	130.0	MLRA 150A,B)
Hydroge	n Sulfide (A4)	Ī	Loamy Gleye			,				(LRR P, S, T)
	d Layers (A5)	Ţ	Depleted Mar		1 850				t Loamy Soils	
	Bodies (A6) (LRR P		Redox Dark				_ (MLF	RA 153B)		
Muck Pr	icky Mineral (A7) (LF esence (A8) (LRR U	(R P, T, U)	Depleted Dar					arent Mater		
	ick (A9) (LRR P, T)	' t	Redox Depre		5)				k Surface (TF1	12)
	Below Dark Surface	e (A11)	Depleted Oct		MLRA 15	51)	Other ((Explain in	Remarks)	
	ark Surface (A12)	Ī	Iron-Mangan				T) ³ Indic	ators of hy	drophytic vege	tation and
	rairie Redox (A16) (N		Umbric Surfa	ce (F13) (I	LRR P, T,	U)	wet	land hydrol	logy must be p	resent,
	lucky Mineral (S1) (L Bleyed Matrix (S4)	.RR O, S) [Delta Ochric				unle	ess disturbe	ed or problema	itic.
	ledox (S5)	F	Reduced Ver Piedmont Flo				241			
	Matrix (S6)	t					A 149A, 153C,	153D)		
☐ Dark Sur	rface (S7) (LRR P, S		_,	ngin Loui	., 00.10 (1	Lo) (maio	1 1407, 1000,	1000)		
Restrictive L	ayer (if observed):		- 122							
Type:										
Depth (inc	ches):		9				Hydric Soil	Present?	Yes	No
Remarks:					****		L			
	1.1		e soil	`		A	2007427			
		tra Qui	soul	JD	2050	wy				
		in c		1		1,2110-34				
		\circ								
										1

whlh021s_w



Wetland data point whlh021s_w facing east



Wetland data point whlh021s_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SE Relicebility City/C	County: HALLERX Sampling Date: 7-22-14
Applicant/Owner: Dominion	State: NC Sampling Point: WHLH 02
Investigator(s): DOWEST, Secti	on, Township, Range:
11 11 11	
Subregion (LRR or MLRA): Lat: 36 2/D	relief (concave, convex, none): Slope (%):
Soil Map Unit Name: Coldsporo fine sendy los	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	The rest is the second of the
SUMMARY OF FINDINGS – Attach site map showing san	가는 보다"라는 사용 전에 가는 사용 전에 가는 사용을 하는 것이 되었다. 그 사용을 하는 것이 되었다면 되었다. 그 사용을 하는 것이 되었다면 함께
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Plonted pine plontation Not all three personneler	
121 M H	~ (c.a. loyears old)
Not cell three performater	5 present
HYDROLOGY	71773
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	C1) Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	long Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iro	n (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	(s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	5 1 1 1 1 1 1 1 1 1
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Remarks:	
No hydrotogy in	Dicators present

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

WHLHOZI	- 1
mpling Point:	

Tree Stratum (Plot size:)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: (B)
5.		-		Percent of Dominant Species That Are OBL, FACW, or FAC:
7				Prevalence Index worksheet:
7 8				Total % Cover of:Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	2070 01	total cover.		FAC species x 3 =
1. Pinus toeda.	70	//	FAC	FACU species x 4 =
2. Liquidam par styracities	,20	~		UPL species x 5 =
3. Phis copullina	5		FACU	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	00			3 - Prevalence Index is ≤3.01
50% of total cover: <u>47</u>	7)	= Total Cov	er, 9	Problematic Hydrophytic Vegetation ¹ (Explain)
		total cover:		
1. Cheen centher 50551 (17/00)	un &	WOOD	FA	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Rubus orgulus	50	1	FALU	Definitions of Four Vegetation Strata:
3				THE THE STATE OF T
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.
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12	57			
50% of total cover Z		= Total Cov total cover:		2 P 440-14 (March 1990) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Woody Vine Stratum (Plot size:)	_ 20 % 01	/		
1. Lontara Japoniea	20		FAC	15
2. Phers radicans	15		FAC	
3. Smelox rotunditolia	30	\sim	FAC	
4			<u> </u>	
5				Hydrophytic
	65	= Total Cov	er 10	Vegetation
50% of total cover: 2 . 3	20% of	total cover:	13	Present? Yes No No
Remarks: (If observed, list morphological adaptations below	v).			V

WHLHOZI - U Sampling Point: ____

	the absence of indicators.)
Depth Matrix Redox Features	
	Texture Remarks
6-12 104R5/2	
12-18-104R5/3	
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) ☐ Hydrogen Sulfide (A4) ☐ Loamy Gleved Matrix (F2)	Reduced Vertic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3)	Piedmont Floodplain Soils (F19) (LRR P, S, T) 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) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	Other (Explain in Remarks)
Thick Dark Surface (A12) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR	\$3
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type:	× ×
Type: Depth (inches):	Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:	
Type: Depth (inches): Remarks:	
Type: Depth (inches): Remarks:	
Type: Depth (inches):	
Type: Depth (inches): Remarks:	

whlh021_u



Upland data point whlh021_u facing east



Upland data point whlh021_u facing north

whlh021 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region __ Sampling Date: 7-22-44 Project/Site: City/County: Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _____ Slope (%): ____ Lat: 36°10'23.261 Long: 77° 46° 32.753 Subregion (LRR or MLRA): Datum: Soil Map Unit Name: Lynchberra 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? Remarks: upelo swamp tores **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): 6 Water Table Present? Depth (inches): SUE Saturation Present? Depth (inches): SUNTONCE Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Obvious drop in topography from adjacent

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

Sampling Point: ____

Tree Stratum (Plot size:) 1		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species X 1 =
50% of total cover: 25 Sapling/Shrub Stratum (Plot size:) 1. Nysa aguatica 2. Salix nigra 3. Cephanthers ozcidantalis 4.	15 / OBL 20 / OBL 15 / OBL	FACW species
5		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot, size:) 1. Typher (at Folia) 2. Folygonum densi florum 3. Polygonum hydropyperoide 4. Billins Dipinnata 5. Samus coraua 6. Arun Dinaria gygontea	20 V 20 V 20 V 10 V	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. Woody vine – All woody vines greater than 3.28 ft in height.
50% of total cover: 50% of	= Total Cover	Hydrophytic Vegetation Present? Yes No

SOIL

WHLHOZZT.	W
Sampling Point:	

Profile Description: (Describe to the dept	h needed to document th	e indicator or confirm	n the absence of indic	eators.)
Depth Matrix (inches) Color (moist) %	Redox Featu		-	2.0
	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
0-7 104R 2/1			100ml	
7-13 104R6/1			Stroly loon	1
13-18-104R6/1			SCL _	
			175	
			NO. 18 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix MS=Mask	red Sand Grains	21 ocation: PI =Por	e Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise n	oted.)		blematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below Sur	rface (S8) (LRR S, T, U	J) 🔲 1 cm Muck (AS) (LRR 0)
Histic Epipedon (A2)	Thin Dark Surface (S		2 cm Muck (A1	
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Miner Loamy Gleyed Matri			c (F18) (outside MLRA 150A,B) dplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matrix (F3)			ght Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surface	(F6)	(MLRA 153E	Charles and the charles and the charles are the charles and the charles are th
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Surfa		Red Parent Ma	
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depressions Marl (F10) (LRR U)	(F8)		Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Ochric (F1	1) (MLRA 151)	U Other (Explain	in Remarks)
Thick Dark Surface (A12)		sses (F12) (LRR O, P,	T) ³ Indicators of	hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)			wetland hyd	rology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4)	Delta Ochric (F17) (F			rbed or problematic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		i) (MLRA 150A, 150B) Soils (F19) (MLRA 14		
Stripped Matrix (S6)		pamy Soils (F20) (MLR		
Dark Surface (S7) (LRR P, S, T, U)				
Restrictive Layer (if observed):				
Type:				\times
Depth (inches):			Hydric Soil Presen	? Yes No
Remarks:		^		
	Hydore	. ()	\circ	
	Hydroc	Seil D	reson	
	O	, ,		

whlh022f_w



Wetland data point whlh022f_w facing east



Wetland data point whlh022f_w facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: 7-22-14 Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): ___ Lat: 36°10'23.378" Long: 77°46'32.333" Subregion (LRR or MLRA): Are climatic / hydrologic conditions on the sife 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? 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 Aguitard (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: No hydrology present

	Absolute	Dominant In	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus talda	15		MAC	That Are OBL, FACW, or FAC: (A)
2. Limie Amber	10		FAC	
3. Acer rubrum	1		EN	Total Number of Dominant
200000000000000000000000000000000000000			THE	Species Across All Strata: (B)
4				Bernard of Bernard Service 67
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				MacAle OBE, FACTO, OF FAC. (A/B)
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	40	= Total Cover	~	OBL species x 1 =
50% of total cover:			X	FACW species x 2 =
The state of the s		total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)	1 [/ /	-11.0	FACU species x 4 =
1. Pinus tacke	12		-AC	
2. Logiesombor styracifling	15	0/	FAC	UPL species x 5 =
3. Quercus hemisphenica			FACU	Column Totals: (A) (B)
N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			<u>v vic</u> o	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8	777			☐ 3 - Prevalence Index is ≤3.01
		= Total Cover		Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 20	20% 01	total cover:	8	
Herb Stratum (Plot size:)		/ -		
	410	V 5.	HCU	¹Indicators of hydric soil and wetland hydrology must
1. Rubus orgatus	10		rev	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
3				
4				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of 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.
				Control of the Contro
8				Herb - All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
				noight.
12	110			
7 -	70	= Total Cover	0/	
50% of total cover: 20	20% of	total cover:	0	
Woody Vine Stratum (Plot size:		/		
Southern D.C.	14	V	-14 C	
1. 21/10x romarrolla	90		-10.0	
2. Rhus marcans	15		AC	
3. [DN180164 10000000	15	Ė	FAC	
4				
E				
5	-00			Hydrophytic
1989	10	= Total Cover	, 01	Vegetation
50% of total cover: 45	20% of	total cover:	18	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	CONTRACTOR OF THE PARTY OF THE	e medicin. Schoöldikatrik l		

WHLHO22 - U
Sampling Point: _____

Profile Description: (Describe to the dep	oth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-5 6092515/3		Sandy loom
5-16+2.545/4_		Stande lown
7		
7		
Type: C=Concentration D=Depletion PM	=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	/	Red Parent Material (TF2)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	Redox Depressions (F8) Marl (F10) (LRR U)	Very Shallow Dark Surface (TF12)
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 150		wetland hydrology must be present.
Sandy Mucky Mineral (S1) (LRR O, S)		unless disturbed or problematic.
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)	LOUIS DE PROPERTO PROMOBERS E CONTRONNE MENTION CONTRON EN ACONTROLOR
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	49A)
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	RA 149A, 153C, 153D)
		A TOTAL OF THE PROPERTY OF THE
Dark Surface (S7) (LRR P, S, T, U)		
Restrictive Layer (if observed):		
Restrictive Layer (if observed): Type:		\sim
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present? Yes No
Restrictive Layer (if observed): Type: Depth (inches):		
Restrictive Layer (if observed): Type: Depth (inches):	handric said	
Restrictive Layer (if observed): Type: Depth (inches):	- hydric soil	
Restrictive Layer (if observed): Type: Depth (inches):	hydric soil	
Restrictive Layer (if observed): Type: Depth (inches):	hydric serd	
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Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	
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Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	
Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	
Restrictive Layer (if observed): Type: Depth (inches):	hydric soil i	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric soil	
Restrictive Layer (if observed): Type: Depth (inches):	hydric serd	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric serd	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric sord	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric soil i	endicators
Restrictive Layer (if observed): Type: Depth (inches):	hydric soil i	endicators

whlh022_u



Upland data point whlh022_u facing east



Upland data point whlh022_u facing north

whlh022 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Sampling Date: (-)2-14 Sampling Point: 11440 Applicant/Owner: Investigator(s): Section, Township, Range: _ Local relief (concave, convex, none): ______ Slope (%):_____ Landform (hillslope, terrace, etc.): 10 11.645 Long: 77 Subregion (LRR or MLRA): Soil Map Unit Name: Chastreen + Br 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? No 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) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) 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): < Depth (inches): KUKACE Wetland Hydrology Present? Yes, Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Oburous marsh at edge of agricu

WHLHOZZe-W

Sampling Point: _____

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

			t Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover			Number of Dominant Species	5	
1				That Are OBL, FACW, or FAC:		(A)
2				South the same service and the same to the		
2 1 1				Total Number of Dominant	5	
				Species Across All Strata:		(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	100	(A/B)
6					ATTE TO THE PERSON NAMED IN COLUMN T	(,,,,
7				Prevalence Index worksheet:		
0				Total % Cover of:	Multiply by:	Y
8				OBL species x 1		-
		= Total Co	ver			
50% of total cover:	20% of	total cove	r:	FACW species x 2		_
Sapling/Shrub Stratum (Plot size:)	72572			FAC species x 3		
1. Acer ruboun	5	. /	FAV	FACU species x 4	4 =	_
2. Cosh mothers occidentalis	10	1	TOPI	UPL species x 5		
	10		OBL	Column Totals: (A)		
3				Column Totals(A)		_ (D)
4				Prevalence Index = B/A =		
5						_
6				Hydrophytic Vegetation Indicat		
				1 - Rapid Test for Hydrophyti	c Vegetation	
7				2 - Dominance Test is >50%		Ĭ
8				3 - Prevalence Index is ≤3.01	ō.	
	15	= Total Co	ver	Problematic Hydrophytic Veg		in)
50% of total cover: 7.5	20% of	total cove	r: 3	r robicinatio riyarophytic veg	jetation (Explai	11)
Herb Stratum (Plot size:	7/20			4		erocesso (i
	30	Υ	UBL	¹Indicators of hydric soil and wetla		nust
1. Typha attolia	2			be present, unless disturbed or pr		
2. Hissons macheutors	10		δ BL	Definitions of Four Vegetation	Strata:	
3. Murdania Keisak	30	Y	OBL	Tree Medicales avaluding	i=== 2 i= /7.6	
4. Glyceria molica 25		Υ	OBL	Tree – Woody plants, excluding v more in diameter at breast height	(DRH) regard	ess of
5. Cyperus pseudovegeties	7		·. 	height.	(DDIT), Tegarun	C33 UI
						200
				Sapling/Shrub - Woody plants, e		
7				than 3 in. DBH and greater than 3	3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-wood	du) plante rega	rdloce
9				of size, and woody plants less that		uless
10				Woody vine - All woody vines gr	eater than 3.28	ft in
11				height.		
12						
	150:	= Total Co	ver			
50% of total cover:50	20% of	total cove	_{r:} 20			
Woody Vine Stratum (Plot size:)		10101 0010				
1						
2						
3						
4						
5.						
0				Hydrophytic		
	Average Control	= Total Co		Vegetation X Present? Yes	No	
50% of total cover:		total cove	·	110001111		
Remarks: (If observed, list morphological adaptations below	w).					

WHLHD23e_W Sampling Point:____

Profile Description: (Describe to the depth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-4 104R2/2	- OBM
4-16+ 104R6/1	<u> 5CL</u>
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)	U) 1 cm Muck (A9) (LRR O) 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) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) 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 Remarks)
☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 12)	0/
Dark Surface (S7) (LRR P, S, T, U)	34 14074, 1665, 1665)
Restrictive Layer (if observed):	The support of the su
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
11 .	\cap
Hydriz soil pre	cont
5	

whlh023e_w



Wetland data point whlh023e_w facing east



Wetland data point whlh023e_w facing south

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: 5P Sampling Date: 2 Applicant/Owner: Sampling Point: \NH Investigator(s): 100(0557 Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): 78.44 Batum: Subregion (LRR or MLRA): Comporia 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? Yes 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 (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
-------------------------	----------------------------------

EGETATION (Four Strata) – Use scientific na				Sampling Point:
ree Stratum (Plot size:)	% COVER	Dominan Species	Indicator Status	Dominance Test worksheet:
Liquidan bor styraciding	70	Opecies	EM.	Number of Dominant Species
Jula lans nigra	10	1/	TIME	That Are OBL, FACW, or FAC: (A
Listo dention tulipitera	15	$\overline{}$	FACU	Total Number of Dominant
The valip for a	12		FACU	Species Across All Strata: (B
				Percent of Dominant Species
		-11		That Are OBL, FACW, or FAC: (A
				Prevalence Index worksheet:
				Total % Cover of:Multiply by:
	45	= Total Co		OBL species x 1 =
50% of total cover: 22 .	5 20% 05	total assum	G G	FACW species x 2 =
pling/Shrub Stratum (Plot size:)	20%01	total cover		FAC species x 3 =
Celtis occidentates	70	. [Tucil	FACU species x 4 =
Lipideran pour styracidles	28	7	FACU	UPL species x 5 =
Mores rupris	20		FAC	Column Totals: (A) (E
The state of the s			FACU	(A)(E
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
	PN.			☐ 3 - Prevalence Index is ≤3.01
50% of total cover: 27.	$\frac{55}{5}$ = $\frac{5}{5}$ 20% of t	Total Covotal cover:	er 	Problematic Hydrophytic Vegetation ¹ (Explain)
Ambrosize as Jemisiblia	20		FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
PassiFlorn incarnada	10		UPL	Definitions of Four Vegetation Strata:
CORDER CONTROL	Ø			
Consych Capadonsis	1.0		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
lousine indica	10		UPL	height.
Prebus argutus	20	1	FACU	0
				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.
0	70 =	Total Cove	er -	
50% of total cover: 35	_ 20% of to	tal cover:	14	
dy Vine Stratum (Plot size:		1		
XI tis rotunal Foha	10	V	FAC	
Chin FAdictons	(0)	V	FA	
Smelox rotunditolia	10	$\sqrt{}$	FAC	
				Under the dis-
	20=	Total Cove		Hydrophytic Vegetation
50% of total cover:	20% of to			Present? Yes No
arks: (If observed, list morphological adaptations below)	20% 01 10	iai cover: _	2	

WHLHOZ3 - U

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) % Type¹ Loc² Texture ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: 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, 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 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, T) ³Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 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? Remarks: No hydriz sol prese

whlh023_u



Upland data point whlh023_u facing east



Upland data point whlh023_u facing north

whlh023 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region _ Sampling Date: 17/22/14 Applicant/Owner: Do Sampling Point: WHLGOIDF Investigator(s): DPWest Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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: are present. The point is in a wether 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 _____ No ____ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Hydrology Present.

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

Sampling Point: WHLG-010F- W

Tree Stratum (Plot size:		Dominant		Dominance Test worksheet:
1. Liquidamber Styricitle	1 6	Species?	PAC	Number of Dominant Species
2. Pinus treda	7.	7		That Are OBL, FACW, or FAC: (A)
3.			FAC	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	WA			OBL species x 1 =
2.3	10	= Total Cov	^{/er} ▽	FACW species x 2 =
50% of total cover: 20	20% of	total cover	:_0	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30)	115	1		FACU species x4 =
1. Myrica cerifer	10	<u> </u>	FAC	UPL species x 5 =
2. Ilex opeca	10		FAC	Column Totals: (A) (B)
3. Persen borbanin			FAOW	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
1.1	22	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover:	20% of	total cover	7.9	
Herb Stratum (Plot size: 30) 1. in an Chasman this in boxum	5	\checkmark	FIACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Section 2 Control of the Control of Section Section 2 Control of Section
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				CARS. WITH IT FROM THE TO SEE TO SEE THE TOTAL
11				Woody vine – All woody vines greater than 3.28 ft in height.
12				
8		= Total Cov	er	
50% of total cover: 2.5	20% of	total cover:	1	
Woody Vine Stratum (Plot size: 30)		,		
1. Lonicera japania	5	/	FAC	
2. Vitis rotundifolia	5	$\overline{}$	FAC	
3. Smilar rotundifilia	5	$\neg \neg$	FAC	
4				
5				Hydrophytic
	15	= Total Cov	er_	Vegetation
50% of total cover: 7 - 5		total cover:	2	Present? Yes No No
Remarks: (If observed, list morphological adaptations below				
11				
Hydrophy for Vegetation pres	et.			

Sampling Point: WHLG-010F_w

Color (moist) Sedor (moist	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tydric 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, U) Depleted Dark Surface (F6) Tom Muck (A9) (LRR P, T) Depleted Dark Surface (A12) Thic Dark Surface (A12) Thic Dark Surface (A12) Thic Dark Surface (A12) Depleted Dark Surface (F7) Redox Depressions (F8) Tom Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depth (Inches): Depth (inches): Hydrics Soil Present? Yes No	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyvalue Below Surface (S8) (LRR S, T, U)	
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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) Wetland hydrology must be preser unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 151) wetland hydrology must be preser unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	
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) Destrictive Layer (if observed): Type: Depth (inches): Depth (inches):	
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) estrictive Layer (if observed): Type: Depth (inches): marks: Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic. Wetland hydrology must be preser unless disturbed or problematic.	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be preser unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	n and
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): Depth (inches): Destrictive Matrix (S1) Delta Ochric (F17) (MLRA 151) MREduced 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	i anu
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No emarks:	14,
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No emarks:	
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) lestrictive Layer (if observed): Type: Depth (inches): emarks: Hydric Soil Present? Yes No	
Type: Depth (inches): emarks: Hydric Soil Present? Yes K	
Depth (inches): Hydric Soil Present? Yes _ No	
emarks:	
emarks:	
Hydric soil present	
Mydric 80.1 present	

whlg010f_w



Wetland data point whlg010f_w facing east



Wetland data point whlg010f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Applicant/Owner: Prof. Investigator(s): DD West Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Lat: 36° 09' 08.736" Long: 77° 47' 25.195 Subregion (LRR or MLRA): Soil Map Unit Name: (- ritner 2 Slove S 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 X 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? Wetland Hydrology Present? within a Wetland? Remarks: a weHan A 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? Wetland Hydrology Present? Yes ____ No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No hydrology present

Con Ottata) - Ose scientific names of plants	VEGETATION (Four Stra	ta) - Use scientific names of plants
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Sampling Point: WHLG-O10_u

Tree Stratum (Plot size: 36	Absolute	Dominar	t Indicator	Dominance Test worksheet:	
1. Pinus tardu	% Cover	Species	? Status	Number of Dominant Species	
2	790		FAC	T1 11 001 010 010 010 010 010 010 010 01	(A)
2				Total Number of Dominant	
3				()	B)
4				DESCRIPTION OF THE PROPERTY OF	-/
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	A/D)
6				A CONTRACTOR OF THE PARTY OF TH	A/B)
7				Prevalence Index worksheet:	
8			-2.510	Total % Cover of: Multiply by:	
	70	= Total Co	Wer	OBL species x 1 =	
50% of total cover: 35		total cove		FACW species x 2 =	
2			1	FAC species x 3 =	
1. Light danker Styristing	5	1	TIM	FACU species x 4 =	
2. Ilex opaca	-	\rightarrow	FAC	UPL species x 5 =	
3			FITC	Column Totals: (A)	(D)
3				Column Totals (A)	(B)
4				Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	-
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	12			3 - Prevalence Index is ≤3.01	
	10=	Total Co	ver a	Problematic Hydrophytic Vegetation¹ (Explain)	
50% of total cover:5	20% of t	total cover	:	- Hosiematic Hydrophytic Vegetation (Explain)	
Herb Stratum (Plot size: 30)	02/2	/		Indicators of hadden by the state of the sta	yen I
1. Se gos Chasmenthum logum	10		FACH	Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	it
2. Vaccinium Stammium	2		FACU	Definitions of Four Vegetation Strata:	
3. Drate. Aralia Spinosa	7		FACU	Definitions of Four Vegetation Strata:	
				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	or
5.				more in diameter at breast height (DBH), regardless height.	of
6				neight.	
6				Sapling/Shrub - Woody plants, excluding vines, les	ss
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-woody) plants, regardle	
9,				of size, and woody plants less than 3.28 ft tall.	35
10				Woody vine All weeds size	
11				Woody vine – All woody vines greater than 3.28 ft in height.	n
12					- 1
	14=	Total Cov	er_ cı		
50% of total cover:		otal coyér:			
Woody Vine Stratum (Plot size: 3 d		/ / /			
1. Lonicera japanice	5	\/	FAC		
2. Vitis retunditulis	7-		FAC		
3.			THC		
4					
5					
				Hydrophytic	
2 		Total Cove		Vegetation X	
50% of total cover: 3.5	_ 20% of to	tal cover:	1.4	Present? Yes No	
Remarks: (If observed, list morphological adaptations below).				-

Sampling Point: WHLG 010_U

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	
0-9 2.543/2	/ sam
4->16 10484/4	1000
	7-42
	The second secon
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 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)	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)	2.00
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14: Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA	
☐ Stripped Matrix (S6) ☐ Anomalous Bright Loamy Soils (F20) (MLR/D) ☐ Dark Surface (S7) (LRR P, S, T, U)	A 149A, 153C, 153D)
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
Maria Circia I	
Hydric So. 1 not present.	
· ·	

whlg010_u



Upland data point whlg010_u facing east



Upland data point whlg010_u facing north

whlg010 soils



Wetland/upland soils

WETLAND DETERMINATION DATA FORM	A - Atlantic and Gulf Coastal Plain Region
Project/Site #C/	
Applicant/Owner: Dominion City/Co	punty: HaliFan Sampling Date: 10/06/2
Investigator(s): 100 West	State: NC Sampling Point: Whith 03
Landform (hillslope, terrace, etc.): Swale	n, Township, Range:
Section Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): T Lat: 36 6 9 9 6	8 010 Slope (%):
Soil Map Unit Name: Chastain	Long: 7, 47, 43, 163 Datum: WGS 8
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	NWI classification: _PFO
Are Vegetation Soil, or Hydrology significantly disturbed.	od2 1 Are "Normal Circumstances" and the second
naturally problemat	ic? 🅖 (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	oling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	Is the Sampled Area within a Wetland? Yes No
The sampling point is located	within a wetland.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Moss Trim Lines (B16) Dry-Season Water Table (C2) (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Field Observations: Surface Water Present? Yes No. Don't (inches)	6"
Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous presents)	Hace Wetland Hydrology Present? Yes No
Hydrology present.	

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

Sampling Point: Whih 034F_w

	AL L		Sampling Point: 10 -CT -CO
Tree Stratum (Plot size: 3 6	Absolute Dominar	nt Indicator	Dominance Test worksheet:
	% Cover Species		Number of Dominant Species
1. Lightdamber Styraciffua	20 Y	FAC	TI I A COL BIOLIC BIO
2. Pinus taeda	20 V	FAC	That Are OBL, FACW, or FAC:(A)
2 Acces al		FIFC	Total Number of Dominant
3. Acer outran	20 Y	TAC	0
4			Species Across All Strata: (B)
4	-	- Productions	Developed of Developed
0			Percent of Dominant Species
6			That Are OBL, FACW, or FAC: (A/B)
6	The state of the s	-	
11			Prevalence Index worksheet:
8,			Total % Cover of: Multiply by:
	60 = Total C	over	OBL species x 1 =
50% of total cover: 30	20% of total cove	17-	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30)	20 % OI (O(a) COV	31.	
1 A G = 15	2 V	+1	FAC species x 3 =
1. Acer ruboun	20	THE	FACU species x 4 =
2. Betula nigra	10	TALL	UPL species x 5 =
3		FALW	
	-	Desirement of the last of the	Column Totals: (A) (B)
			D. Color Production Color Color
5.			Prevalence Index = B/A =
6.			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
78.			r - Napid Test for riyurophytic Vegetation
8.			2 - Dominance Test is >50%
	-2		3 - Prevalence Index is ≤3.01
	= Total C	over	Printers
50% of total cover: 15	20% of total cov	Dr. 6	Problematic Hydrophytic Vegetation¹ (Explain)
Herb Stratum (Plot size. 30)	- 10 70 OF TOTAL COVE	31	
1 8 2 (1 . 6 . 0 .	/ 6 1 .	¥0-	¹ Indicators of hydric soil and wetland hydrology must
1. Sp Commelina Companis	10 4	FAC	be present, unless disturbed or problematic.
2. Bochmana Cylindrica	10	FALL	The state of the s
2. Bochmana cylindrica 3. Enlatally inineam	10	TACOU	Definitions of Four Vegetation Strata:
1	70 1	PACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
4	Participation of the Control of the		more in diameter at breast height (DBH), regardless of
5			height.
6			Hoight.
			Sapling/Shrub Woody plants, excluding vines less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.			and the state of t
Q			Herb - All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
10.			7,7
11			Woody vine - All woody vines greater than 3.28 ft in
			height.
12	**************************************		457
	30 = Total C		
500/			
50% of total cover:5	20% of total cove	er: 6	
Woody Vine Stratum (Plot size. 3 0			
1 The Campsis radicans	31 Y	EL	
2. 9.	70 1	THE	
L. I	Order and the second		
3.	A STATE OF THE PARTY NAMED IN COLUMN TO PARTY	-	
4.			
E		-	
5			The face for the
	36 = Total Co	-	Hydrophytic
500/ - 10		over	Vegetation Present? Yes No
50% of total cover: 15	20% of total cove	er: _6	Present? Yes No
Remarks (If observed, list morphological adaptations below	N).		
		,	
Hydrophytic veg. is	domingan	L	
1	DC 25 885		
			,
*			
The state of the s			

Depth (inches)			needed to docume Redox F	eatures	icator (or confirm	the absence o	of indicat	ors.)
	2.5Y 4/1	95	Color (moist)		Type ¹	_Loc ²	Texture		Remarks
2 7 10		15_	7.5484/6	5_			logn.		
			-	_		-	N		
			-					~~~	
	T and 10 1 to 1 0 to received received to 1 to the section of the								
		***********	_						
Type: C=Co	acentration D=D==1		nu constitution of the con	Delay or a company of the con-			territoria de la companio del companio de la companio della compan		18220000 (2012)
ydric Soil Ir	idicators: (Applica	ellon, RM=R ible to all Li	educed Matrix, MS=N RRs, unless otherwi	Masked Sa	and Gra	ins.	² Location: F	L=Pore L	ining, M=Matrix.
_ mistosol (A1)		Polyvalue Below			300740	Indicators fo	or Proble	matic Hydric Soils ³ :
Histic Epi Black His	pedon (A2)		Inin Dark Surfa	ce (S9) (L	RRS. 7	(1)		ick (A9) (ick (A10)	LRR O)
Hydrogen	Sulfide (A4)		Loamy Mucky M	lineral (F1) (LRR	0)	Reduced	Vertic (F	(LRR S) F18) (outside MLRA 150A,
Stratified	Layers (A5)		Loamy Gleyed Matrix	Aatrix (F2)			Piedmor	nt Floodpl	ain Soils (F19) (LRR P. S.
Organic 8	odies (A6) (LRR P,	T, U)	Redox Dark Sur	(F3) face (F6)			Anomalo	ous Bright	Loamy Soils (F20)
J 5 cm Muc	ky Mineral (A7) (LRI sence (A8) (LRR U)	R P, T, U)	Depleted Dark S	Surface (F	7)		Red Par	4 153B) ent Mater	ial /TEO)
1 cm Muc	k (A9) (LRR D)		Redox Depressi	ons (F8)			Very Sha	allow Dar	k Surface (TF12)
□ Depleted	Below Dark Surface	(A11)	Marl (F10) (LRR Depleted Ochric	(U) (C11) /BAI	D A 4 P	41	Other (E	xplain in	Remarks)
Thick Dar	k Surface (A12)		Iron-Manganese	Masses (F12) (I	I) RROPT	"\ 3Indian		and a sur
Sandy Mu	irie Redox (A16) (M cky Mineral (S1) (Li	LRA 150A)	Umbric Surface	(F13) (LR	RP.T.	U)		nd hydrol	drophytic vegetation and ogy must be present.
Sandy Gle	eyed Matrix (S4)	RR (), S)	Delta Ochric (F1	7) (MLRA	151)		unles	s disturbe	ed or problematic.
Sandy Re	dox (S5)		Reduced Vertic	(F18) (ML	RA 150	A, 150B)			
Stripped N	Matrix (S6)		Anomalous Brigh	nt Loamy :	Soils (F	MLKA 149 20) (MI RA	A)	E25)	
estrictive La	yer (If observed):	Υ, U)) ////-//	140%, 1000, 1	030)	
	, (ii obdolveu).								
Depth (inch	es)		-						
emarks							Hydric Soll P	resent?	Yes No
D.	1.1°c 50.	1000	30-4			23	Colonia Colonia del Situació Servicio S		
Tyd	1. c 10.	pre	160 1						
9 =									

whlh034f_w



Wetland data point whlh034f_w facing east



Wetland data point whlh034f_w facing south

WEILAND DETERMINATION DATA FOR	M – Atlantic and Gulf Coastal Plain Region
Project/Site: ACP City/C	County: HaliFax Sampling Date: 10/66/2
Applicant/Owner: Poninion	State: NC Sampling Point: Whiho34
	on, Township, Range:
	relief (concave convex none): Slone (%): \$ 1%
Subregion (LRR or MLRA): T lat: 36°09	relief (concave, convex, none): Slope (%): 41% Datum: WGS 8
	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	<u>,</u>
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: The point is Not in a wetland wet	Is the Sampled Area within a Wetland? Yes No
HYDROLOGY	
Wetland Hydrology Indicators:	Cocondant Indicators (minimum of two named)
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) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (0	The state of the s
Water Marks (B1) Oxidized Rhizospheres a	DESCRIPTION OF THE PROPERTY OF
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	X 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):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
	made to decode to the second of
Remarks:	
Hydrology is not present.	
	301

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

Sampling Point: While 34_u

-7.	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			? Status	
1. Liriodardran tulipiters	10	V	FAC	Number of Dominant Species
A. Dienorsh Talipitera		-3-		That Are OBL, FACW, or FAC: (A)
2. Acer vaboun	10		FAC	Total Number of Dominant
3. Pinus tacks	20	Y	FAC	Species Across All Strata: (B)
4		\neg		opeoide / torode / til otrata.
			•	Percent of Dominant Species
5	·		-	That Are OBL, FACW, or FAC:/ 60 (A/B)
6	1/42			Description and Committee and
7			18/	Prevalence Index worksheet:
	·			Total % Cover of: Multiply by:
8				
	40:	= Total Co	ver	OBL species x 1 =
50% of total cover: 20	20% of	total cove	X	FACW species x 2 =
	20 % 01	total cove	1	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)	20	V	to	
1. Ligardambar StyraciFlua	20		PAC	FACU species x 4 =
2. Acer outrum	10	Y	EAC.	UPL species x 5 =
			FACIL	Column Totals: (A) (B)
3. Betula nigra			FACW	V. V.
4	Ø-			Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6	(a)			1 - Rapid Test for Hydrophytic Vegetation
7				∠2 - Dominance Test is >50%
8				5
	20			3 - Prevalence Index is ≤3.0 ¹
10	-52 =	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	r:/	
Herb Stratum (Plot size:)		1977 - 1794	• ==:	1
1. Houndinaria gigantes	10	V	FACW	Indicators of hydric soil and wetland hydrology must
1. Maria gigantes	- (6)			be present, unless disturbed or problematic.
2. Entition My inine sam	10	<u> </u>	FACW	Definitions of Four Vegetation Strata:
3				MATERIAL SECURIOR SEL SEL SEL SECURIOR NO CONTROL MENTALIZADO DE
4	11.			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 in. DBT and greater than 5.25 it (1 in) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9			a managaran	of size, and woody plants less than 3.28 ft tall.
10				The second second contract contract is the second contract contract is the second contract co
				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	76.	= Total Co	ver	
500/ (1.1.			. 0	
50% of total cover:	20% of	total cove	r:	
Woody Vine Stratum (Plot size:)		11		
1. Toxicodendron radicins	10	Y	TAI	
2			17.0	
۷				
3			3	9
4.				
E	-		·	
5				Hydrophytic
	<u> </u>	Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	. 2	Present? Yes No
		10101 0010		
Remarks: (If observed, list morphological adaptations belo	w).			`'5
T :	- 1	,	1-	
Hudrach, tic upartation	is de	ymina	4	
Hydrophytic vegetation				

Profile Desc	ription: (Describe t	o the depth	needed to docu	ment the n	idicator	or confirm	the absence of ind	icators.)	
Depth (inches)	Matrix		Redo	x Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²		Remarks	
11 - 12							10-m		
9-218	7.54R516						10an_		
					-				4
		i e				-			
	***************************************	-		-0.00				T.8.	
1	-								
Hydric Soil I	ncentration, D=Depl	etion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	iins.	² Location: PL=P		
Histosol	ndicators: (Applica	ible to all LR			C-5/		Indicators for Pr	CONTRACTOR OF THE PROPERTY OF	: Soils*:
TAX TAX TO SEE THE SECOND SECO	ipedon (A2)		Polyvalue Be Thin Dark Se				0. (accuració (accuració)	\$57,004E	
Black Hi			Loamy Muck				2 cm Muck (A	tic (F18) (outside	MI RA 150A R)
Hydroge	n Sulfide (A4)		Loamy Gley			-,		odplain Soils (F19	
	Layers (A5)		Depleted Ma					right Loamy Soils	50 (2) 120 (27) 50
	Bodies (A6) (LRR P,		Redox Dark		,		(MLRA 153		
	cky Mineral (A7) (LR esence (A8) (LRR U)		Depleted Da		80 8		Red Parent N		(4.0)
	ck (A9) (LRR P, T)		Redox Depre Marl (F10) (L)			Dark Surface (TF n in Remarks)	12)
	Below Dark Surface	(A11)	Depleted Oc		MLRA 15	1)	Other (Explai	ii iii Keiliaiks)	
	rk Surface (A12)		Iron-Mangan	ese Masse	s (F12) (L	RR O, P,	T) ³ Indicators of	f hydrophytic veg	etation and
Coast Pr	airie Redox (A16) (M		Umbric Surfa			U)		drology must be a	
	ucky Mineral (S1) (LI leyed Matrix (S4)	RR O, S)	Delta Ochric	(F17) (ML I	RA 151))	unless dis	turbed or problem	atic.
	edox (S5)	,	Reduced Ve Piedmont Flo				241		
	Matrix (S6)	,					A 149A, 153C, 153D)	
	face (S7) (LRR P, S,	T, U)							
	ayer (if observed):								
Type:	. `		_						/
	hes):						Hydric Soil Prese	nt? Yes	No
Remarks:	est a	- 1		/					
Hyo	lace soil	not	Present	L					
1			V						
									u,

									dy,
									dips.
									ő _f s
									őy,
									÷η.

whlh034_u



Upland data point whlh034_u facing north



Upland data point whlh034_u facing west

whlh034 soils



Wetland/upland soils

MALGOIIF-W

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region Project/Site: Daminor Applicant/Owner: D+0 Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _(oncave Subregion (LRR or MLRA): Lat: 36°08' 51. 304" Long: 77°47' 37.129" Soil Map Unit Name: _ 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 X 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? Yes_X_ No____ within a Wetland? Wetland Hydrology Present? Remarks: Rond + roud(filled area) sp-graduat 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? No ____ Depth (inches): Linke Water Table Present? _ Depth (inches): Surface Saturation Present? Depth (inches): Surlice (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Sampling Point:

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

				Sampling Folia.
Tree Stratum (Plot size: 30')	Absolute	Dominar	nt Indicator	Dominance Test worksheet:
	% Cover	Species	? Status	Number of Dominant Species
DI	_70_		M	That Are OBL, FACW, or FAC: (A)
2. Brhus nugra	10		FACH)
3. Ulmus American	5		FIACW	Total Number of Dominant
4. Faxings penasylyvania	70	1	FACW	Species Across All Strata:
				Percent of Dominant Species / PT
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	57	= Total Co		OBL species x 1 =
50% -44	_05_	= Total Co	ver []	FACW species x 2 =
50% of total cover: 27-, Sapling/Shrub Stratum (Plot size: 30')	≥ 20% of	total cove	r:	
Sapinid/Stratum (Plot size:)	_	/		FAC species x 3 =
1. Photo nigna		V/	FACW	FACU species x 4 =
2. Bostonio Mar Hous serralata	10		FACW	UPL species x 5 =
3				Column Totals: (A) (B)
4				(9)
5.				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
1				2 - Dominance Test is >50%
8			Yel	3 - Prevalence Index is <3.01
		Total Co	uer .	<u>=</u> • · · · · · · · · · · · · · · · · · ·
50% of total cover: 7.5		otal acusa	3	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 301)	_ 20 % 01	otal cover		
1 involvede Centil	10	/		¹ Indicators of hydric soil and wetland hydrology must
1. Introducation arrotate		\sim	OBL	be present, unless disturbed or problematic.
2. Dead test Saryorus cernoa	10_	V	DBL	Definitions of Four Vegetation Strata:
3				
4				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				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.
0				
9				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10			-	or size, and woody plants less than 5.26 it tall.
11				Woody vine - All woody vines greater than 3.28 ft in
11	-			height.
12				
	<u> </u>	Total Cov	er , ,	
50% of total cover: 10	_ 20% of to	tal cover:	7	
Woody Vine Stratum (Plot size: 30')				
1. Smiles rotunde believe	30	1	FAC	
2.			Trac	
3				
-				
4				
5				History L. C.
	30 =	Total Cove	or .	Hydrophytic Vegetation
50% of total cover: 15	_ 20% of to		6	Present? Yes No
Remarks: (If observed, list morphological adaptations below)	20% 0110	tai cover:		
rtemarks. (If observed, list morphological adaptations below)).			

WhlgoIIEw

SOIL

Profile Doc	orintians (Dansell								Sampling Poir	nt:
Donath	scription: (Describe	to the depth	neede	ed to docum	ent the i	indicator	or confirm	m the absence of	indicators.)	
Depth (inches)	Color (moist)			Redox	Feature	S				
0-3			Color	(moist)	%	Type ¹	_Loc ²	Texture	Remarks	
<u> </u>	254311	100						L		
3-16	2.547/1	90 3	5 YR	Tel 5/6	12	ma	nin			
					10	Jan	14-(
			_							
		-					-			
			-							
	-									
Type: C=C	concentration, D=Dep	letion DM-Do	duas	Matrix MO						
Hydric Soil	Indicators: (Applic	able to all I Di	uucec	Matrix, MS	=Masked	Sand Gra	ains.	*Location: PL	.=Pore Lining, M=Mat	rix.
Histoso		able to all LRI							Problematic Hydric	: Soils ³ :
	pipedon (A2)	ł	- P	olyvalue Belo	ow Surfac	ce (S8) (L	RR S, T, L		k (A9) (LRR O)	
	istic (A3)		⊣ "	nin Dark Surf	face (S9)	(LRR S,	T, U)	2 cm Muc	k (A10) (LRR S)	
	en Sulfide (A4)	Į	<u>ا</u> لـٰ	amy Mucky	Mineral (F1) (LRR	0)	Reduced	Vertic (F18) (outside	MLRA 150A,B
	d Layers (A5)	ļ	릤 Lo	amy Gleyed	Matrix (F	-2)		□ Piedmont	Floodplain Soils (F19) (LRR P, S, T)
Organia	Dodies (AS)	}	작 면	epleted Matri	ix (F3)			Anomalou	is Bright Loamy Soils	(F20)
= Cigariic	Bodies (A6) (LRR P,	1,0) [⊣ ₽	edox Dark Si	urface (F	6)		(MLRA	153B)	32 d
Muck B	ucky Mineral (A7) (LR	K P, 1, U)	_ De	epleted Dark	Surface	(F7)		Red Parer	nt Material (TF2)	
1 om M	resence (A8) (LRR U)	ļ		edox Depres)			low Dark Surface (TF	12)
Poplete	uck (A9) (LRR P, T)	ļ		arl (F10) (LR				U Other (Exp	plain in Remarks)	S
Thick D	d Below Dark Surface	: (A11) _	d D€	epleted Ochr	ic (F11) (MLRA 15	1)			
- Casat D	ark Surface (A12)	<u>†</u>	☐ Iro	n-Manganes	se Masse	s (F12) (L	.RR O, P,	T) ³ Indicato	rs of hydrophytic vege	etation and
Coast P	rairie Redox (A16) (M	ILRA 150A)	Ur	mbric Surface	e (F13) (L	RR P, T,	U)	wetland	d hydrology must be p	resent,
Sandy	Mucky Mineral (S1) (L	RR O, S)	d D€	elta Ochric (F	17) (MLF	RA 151)		unless	disturbed or problema	atic.
	Gleyed Matrix (S4)	Ļ	⊣ Re	duced Vertic	c (F18) (N	/ILRA 150	A, 150B)			
	Redox (S5)	+	- Pie	edmont Floor	dplain So	ils (F19) (MLRA 14	9A)		
	Matrix (S6)	L	_ An	omalous Bri	ght Loam	y Soils (F	20) (MLR	A 149A, 153C, 15	3D)	
Dark Su	rface (S7) (LRR P, S,	1, 0)								
	ayer (if observed):									
Type:								1	1000	
Depth (inc	ches):		66					Hydric Soil Pre	sent? Yes X	No
Remarks:							-	,	163	. 140
					Charles and the second					

whlg011f_w



Wetland data point whlg011f_w facing east



Wetland data point whlg011f_w facing south

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: SERP City/	County Midiley Sampling Date: 7/27/4
Applicant/Owner: Downon	County: Michies Sampling Date: 7/22/4
Investigator(s): D+D Sect	
Landform (hillslope, terrace, etc.): Terrace Loca	If relief (concave, convex, none): Slope (%):
Subregion (LRR or MLRA): Lat: 3608 Soil Map Unit Name: (Nahee fine spondy)	
· · · · · · · · · · · · · · · · · · ·	m 0-2% slope NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distu	rbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
	Is the Sampled Area
Hydric Soil Present? Yes NoX	within a Wetland? Yes NoX
Not all three parameters	present
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LR	
Saturation (A3) Hydrogen Sulfide Odor (Paradia and a superior and a superio
Water Marks (B1) Sediment Deposits (B2) Water Marks (B1) □ Oxidized Rhizospheres a □ Presence of Reduced Inc.	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes NoX Depth (inches):	7/2/
Water Table Present? Yes No X Depth (inches):	7.711
Saturation Present? Yes No _X _ Depth (inches): / (includes capillary fringe)	7/Z" Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
No hydrology pres	sent

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

Sampling Point: whlg011_u

Tree Stratum (Plot size: 30)	Absolute Dominant Indicator	Dominance Test worksheet:
	% Cover Species? Status	Number of Dominant Species
1. Lirodendron Tulipitisc		That Are OBL, FACW, or FAC: (A)
2. Vinus treda	10 PAC	Total Number of Dominant
3. Liquidconter Storethis	10 V FAC	Species Across All Strata:(B)
4		B
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6		macris obej movi, or mo.
7		Prevalence Index worksheet:
8		Total % Cover of: Multiply by:
	30 = Total Cover	OBL species x 1 =
50% of total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:	20% of total cover:(FAC species x 3 =
		FACU species x 4 =
1. Ilex opice	10 V FAC	
2. Acer rubran	Company of the compan	UPL species x 5 =
3		Column Totals: (A) (B)
4		Prevalence Index = B/A =
5		
6		Hydrophytic Vegetation Indicators:
7	·	1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
8	70	☐ 3 - Prevalence Index is ≤3.01
18	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 18	20% of total cover:	
Herb Stratum (Plot size: 30')	- / -	¹ Indicators of hydric soil and wetland hydrology must
1. foxicocordan radicans	5 J FAC	be present, unless disturbed or problematic.
2		Definitions of Four Vegetation Strata:
3	ANTEN	
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		Weedwales Allowed a control to 200 g
11		Woody vine – All woody vines greater than 3.28 ft in height.
12.		
	= Total Cover	
50% of total cover: 2 · 5	the state of the s	
	20% of total cover:	
Woody Vine Stratum (Plot size:)	110 1/ 500	
1. Longer japonica	40 V FAC	
2. Smilex Pohiodelolia	10 FAC	
3. Vitis rotunditalia	10 PAC	
4		
5		Hydrophytic
	= Total Cover	Vegetation
50% of total cover: 30	20% of total cover: 12	Present? Yes No
Remarks: (If observed, list morphological adaptations below		
,	T.	

Profile Desc	cription: (Describe	to the depth needed to	o document the i	ndicator or confirm	n the absence of indi	cators)	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features							
(inches)	Color (moist)			Type ¹ Loc ²	Texture	Remarks	
0-16	2.54 4/5	100			54		
						39/10/0	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-							
					· New York States		
		NA.					
						// // // // // // // // // // // // //	
¹Type: C=C	oncentration D=Donl	otion DM-Reduced M	atrice MC-Mandend	C	21 11 21 2		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
☐ 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 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)							
	Bodies (A6) (LRR P,		x Dark Surface (F		(MLRA 153E		
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8)					Red Parent Material (TF2) Very Shallow Dark Surface (TF12)		
	ick (A9) (LRR P, T)		(F10) (LRR U)	"	Other (Explain	2 2	
	Below Dark Surface		eted Ochric (F11) (MLRA 151)	Other (Explain	iii Neliidiks)	
	ark Surface (A12)	☐ Iron-I	Manganese Masse	s (F12) (LRR O, P,	T) ³ Indicators of	hydrophytic vegetation and	
	rairie Redox (A16) (M		ic Surface (F13) (I		wetland hyd	drology must be present,	
	Mucky Mineral (S1) (L		Ochric (F17) (ML	[[[[[[[[[[[[[[[[[[[urbed or problematic.	
	Bleyed Matrix (S4) Redox (S5)			MLRA 150A, 150B)			
	Matrix (S6)			oils (F19) (MLRA 14	19A) RA 149A, 153C, 153D)		
	rface (S7) (LRR P, S,	, T, U)	ialous Brigin Coan	ly dolls (F20) (MLK	A 149A, 1550, 155D)	'	
Restrictive Layer (if observed):							
Type:						17	
Depth (in	ches):				Hydric Soil Presen	t? Yes No	
Remarks:		1000					
			2				
	M)	a hydri			1		
	\sim	a myden	2 8001	5 presu	end		
		O		V			
			HANK THE SHEET				

whlg011_u



Upland data point whlg011_u facing east



Upland data point whlg011f_u facing north

whlg011 soils



Wetland/upland soils